



Systems and Computer Engineering Department (SYSC)

Ottawa Collision Data Report:

Feature Values After Homologation

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Ottawa Collision Data Report

About this Document

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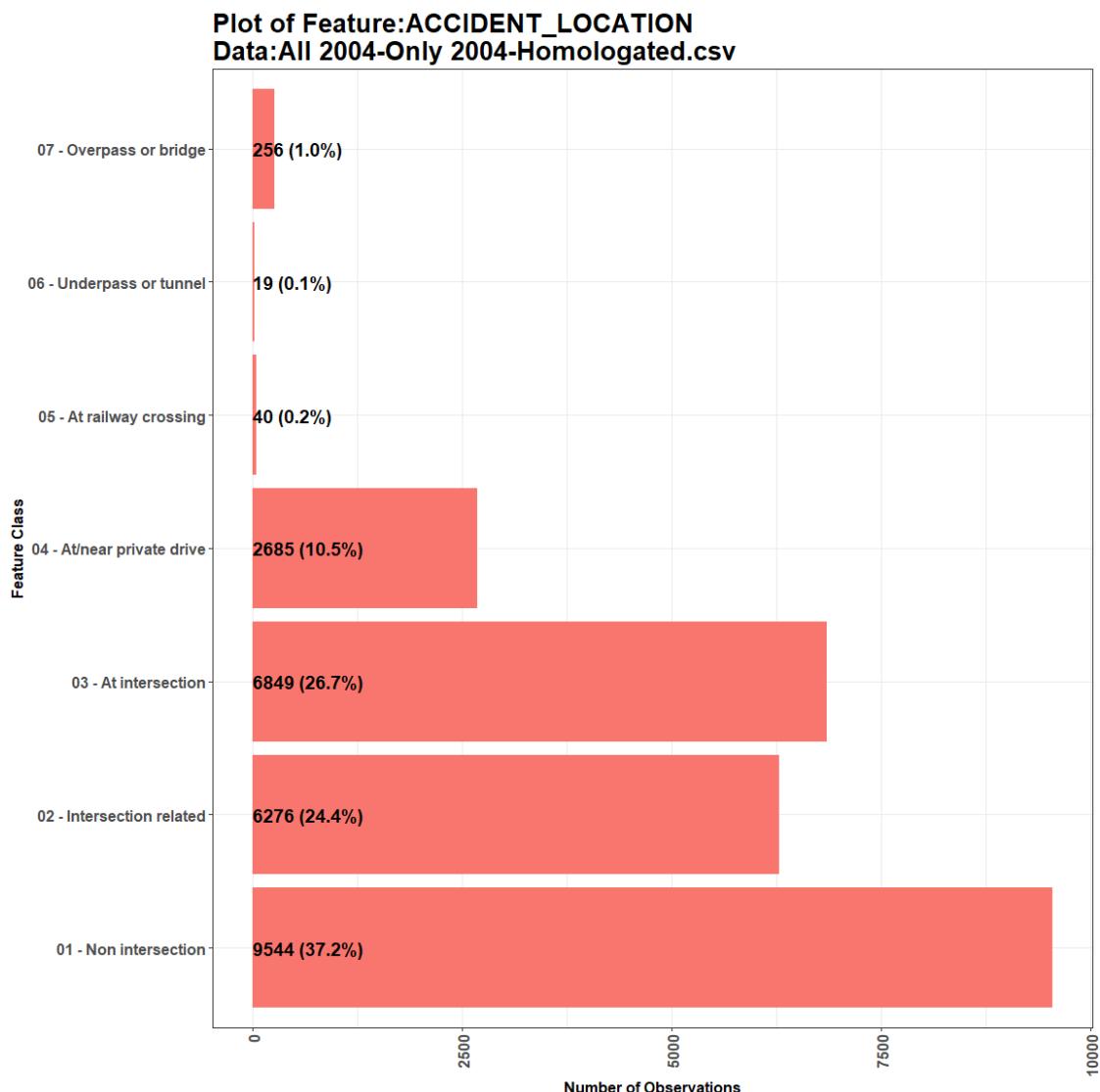
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Introduction

This document includes simple histogram plots and information regarding each feature value of the Ottawa Collision Dataset (2004-2017) after applying the *Homologation Transformations*.

1. Accident Location (ACCIDENT_LOCATION)

```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_LOCATION  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 7  
##  
## TOP 100 FEATURES OF ACCIDENT_LOCATION  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Non intersection 9544 37.1810  
## 02 - Intersection related 6276 24.4497  
## 03 - At intersection 6849 26.6820  
## 04 - At/near private drive 2685 10.4601  
## 05 - At railway crossing 40 0.1558  
## 06 - Underpass or tunnel 19 0.0740  
## 07 - Overpass or bridge 256 0.9973
```



```
##  

## -----  

## CHECKING FEATURE:ACCIDENT_LOCATION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 7  

##  

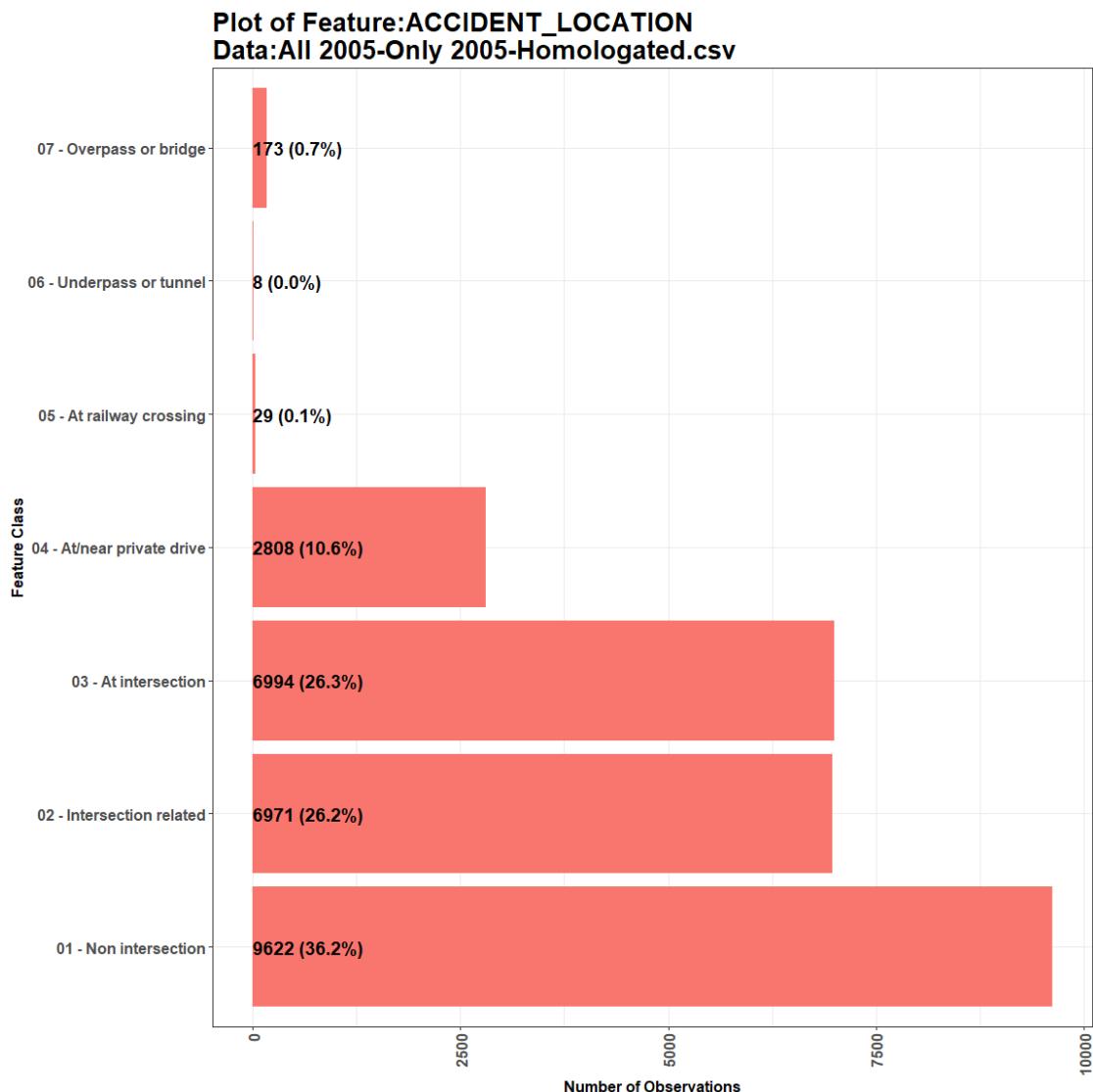
## TOP 100 FEATURES OF ACCIDENT_LOCATION  

##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Non intersection	9622	36.1661
## 02 - Intersection related	6971	26.2018
## 03 - At intersection	6994	26.2883
## 04 - At/near private drive	2808	10.5544
## 05 - At railway crossing	29	0.1090
## 06 - Underpass or tunnel	8	0.0301
## 07 - Overpass or bridge	173	0.6503



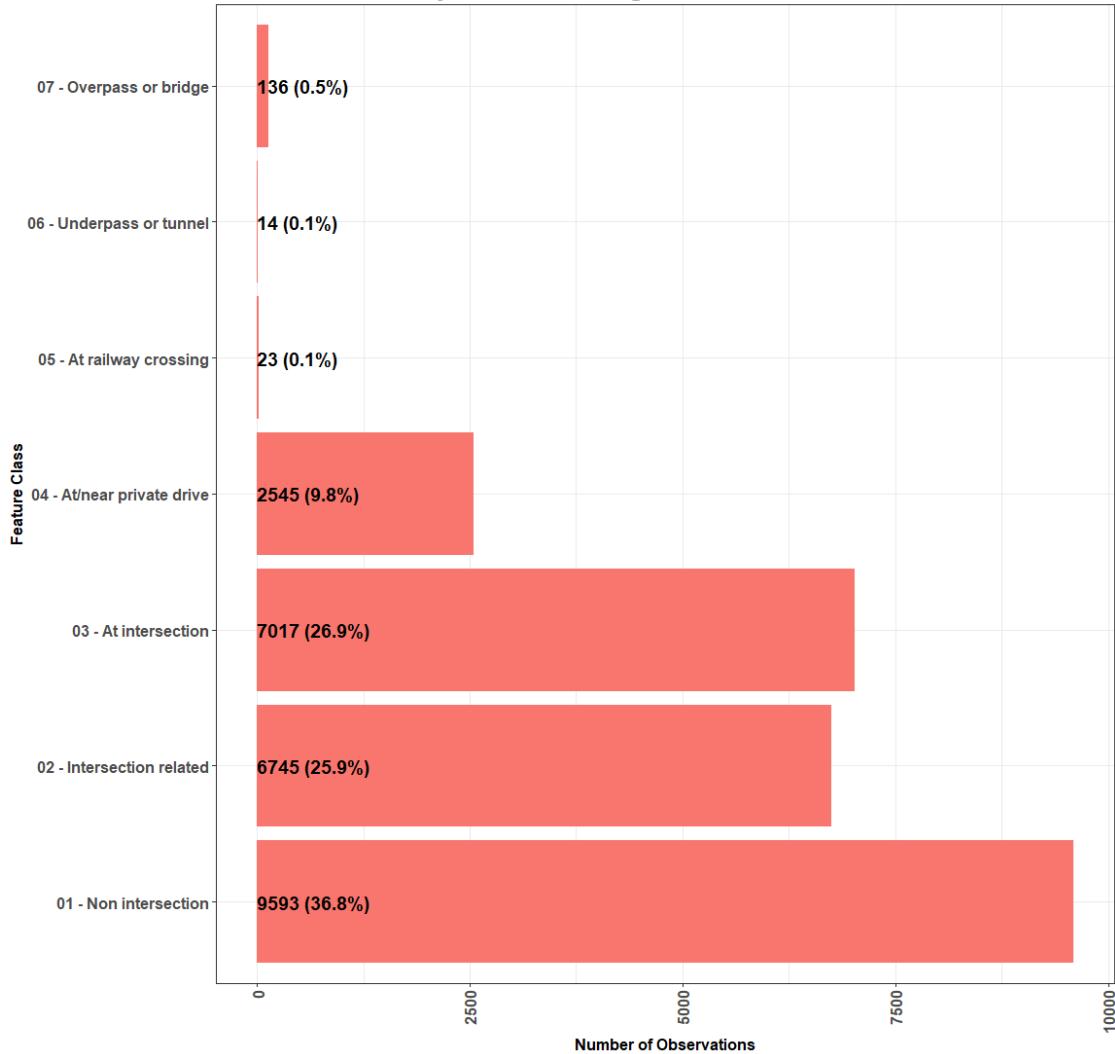
```
##
## -----
## CHECKING FEATURE:ACCIDENT_LOCATION
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
```

```

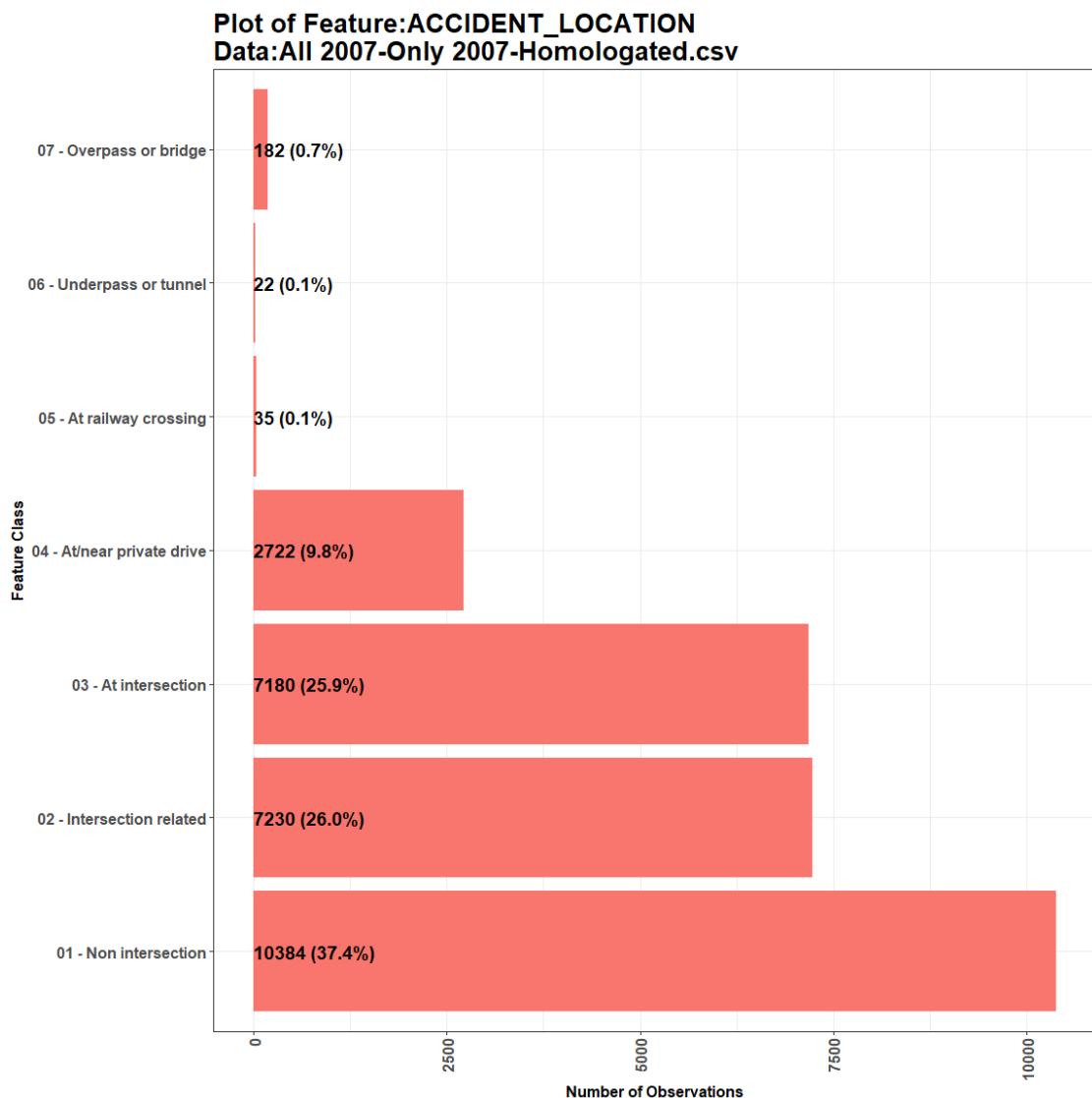
## Summary as Factor Feature:
## 
## Number of Features: 7
## 
## TOP 100 FEATURES OF ACCIDENT_LOCATION
## 
## Feature Value          Counter    Percentage
## -----
## 01 - Non intersection   9593     36.7929
## 02 - Intersection related 6745     25.8697
## 03 - At intersection    7017     26.9129
## 04 - At/near private drive 2545     9.7611
## 05 - At railway crossing 23       0.0882
## 06 - Underpass or tunnel 14       0.0537
## 07 - Overpass or bridge  136      0.5216

```

Plot of Feature:ACCIDENT_LOCATION
Data:All 2006-Only 2006-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_LOCATION  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 7  
##  
## TOP 100 FEATURES OF ACCIDENT_LOCATION  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Non intersection 10384 37.4131  
## 02 - Intersection related 7230 26.0494  
## 03 - At intersection 7180 25.8692  
## 04 - At/near private drive 2722 9.8072  
## 05 - At railway crossing 35 0.1261  
## 06 - Underpass or tunnel 22 0.0793  
## 07 - Overpass or bridge 182 0.6557
```



```
##  

## -----  

## CHECKING FEATURE:ACCIDENT_LOCATION  

## DATA:All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 7  

##  

## TOP 100 FEATURES OF ACCIDENT_LOCATION  

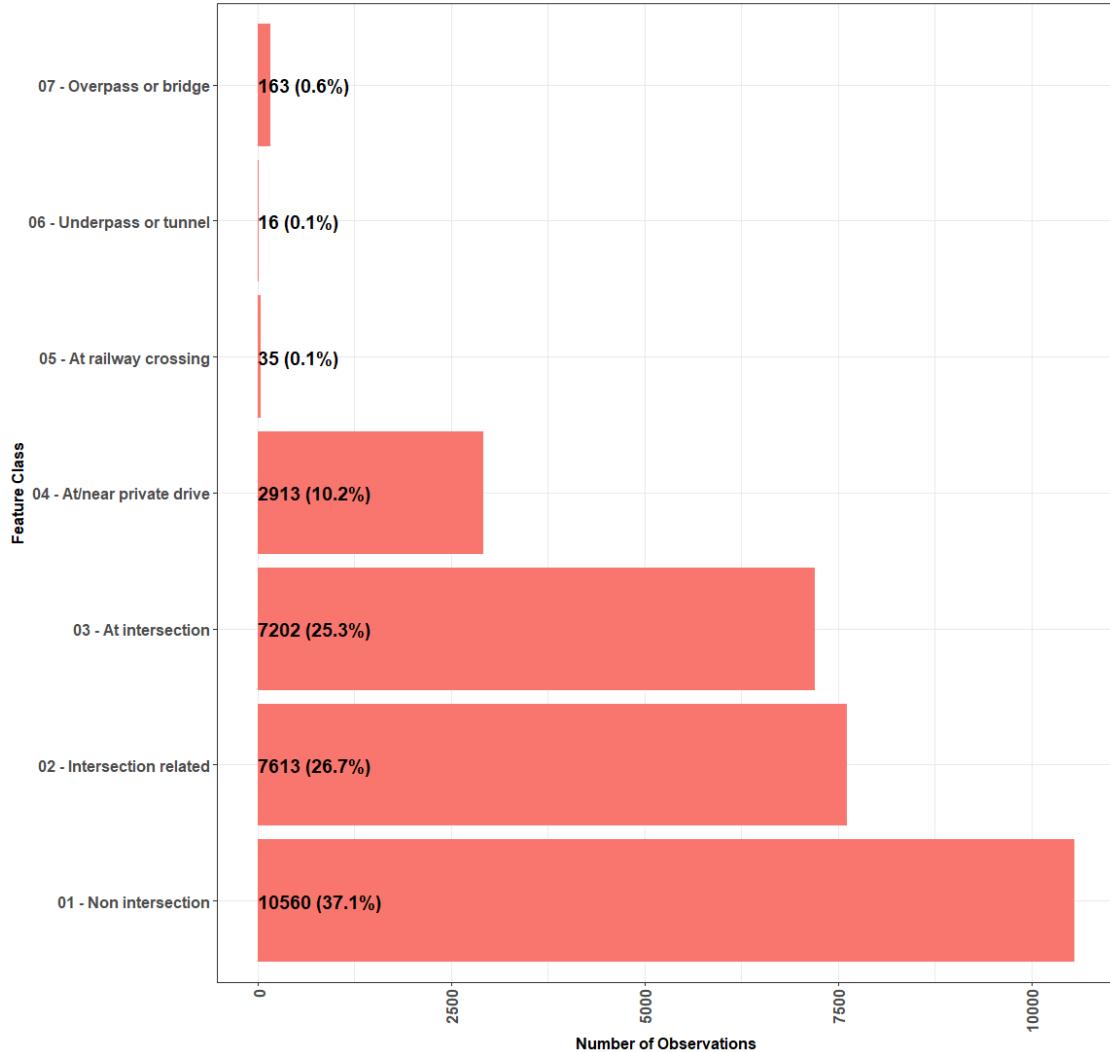
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Non intersection	10560	37.0500
## 02 - Intersection related	7613	26.7104
## 03 - At intersection	7202	25.2684
## 04 - At/near private drive	2913	10.2203
## 05 - At railway crossing	35	0.1228
## 06 - Underpass or tunnel	16	0.0561
## 07 - Overpass or bridge	163	0.5719

Plot of Feature:ACCIDENT_LOCATION
Data:All 2008-Only 2008-Homologated.csv



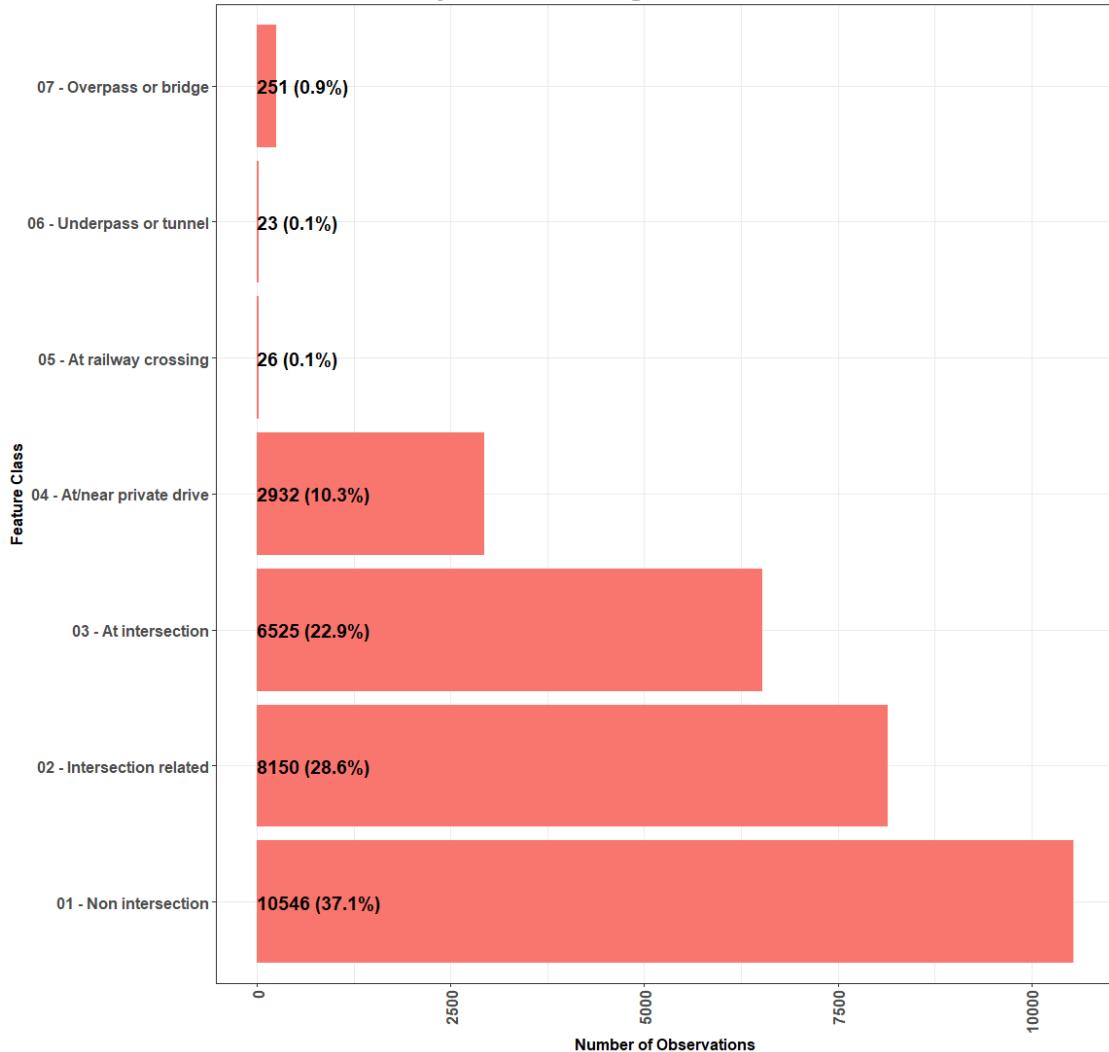
```
##
## -----
## CHECKING FEATURE:ACCIDENT_LOCATION
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
```

```

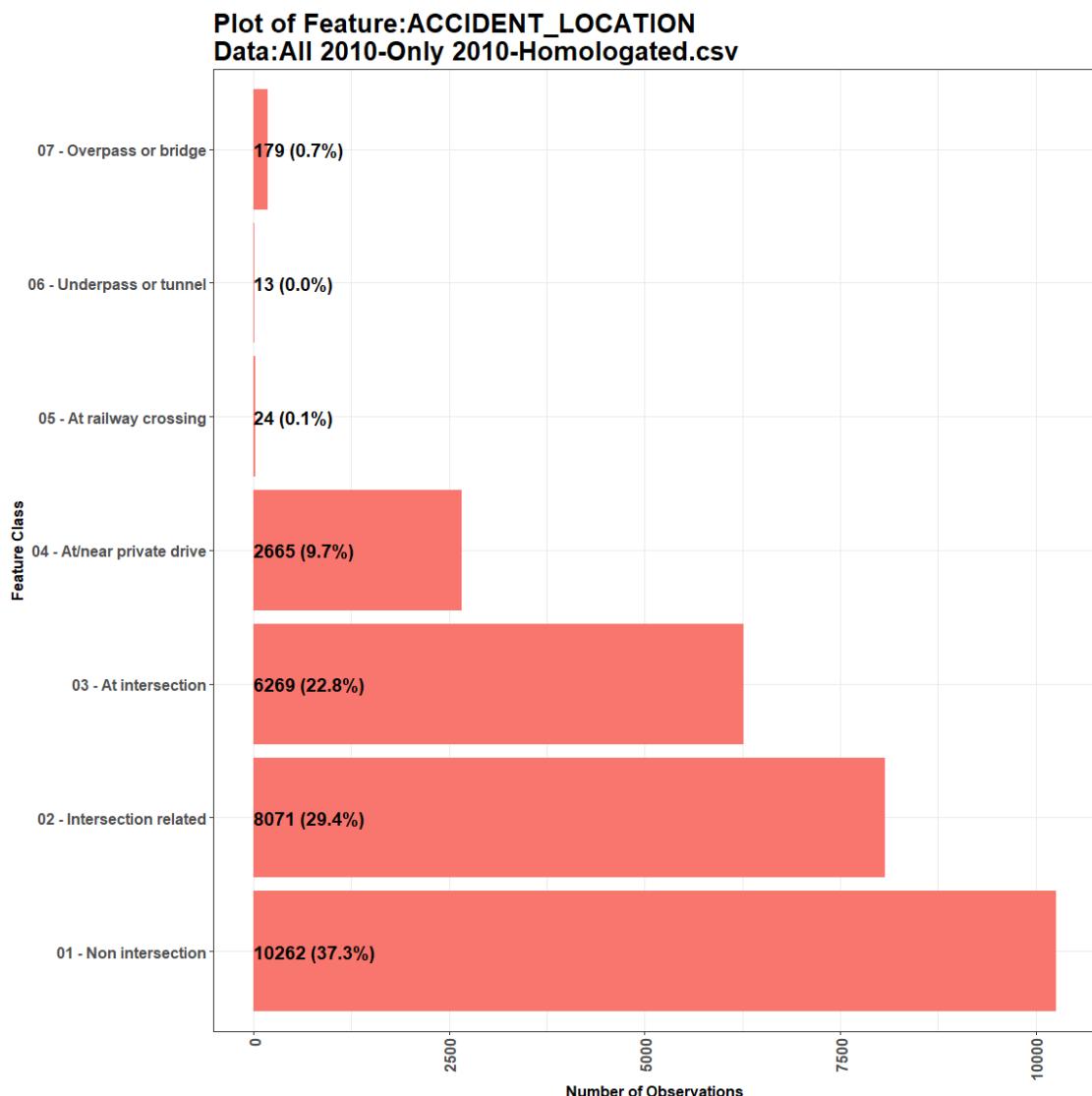
## Summary as Factor Feature:
## 
## Number of Features: 7
## 
## TOP 100 FEATURES OF ACCIDENT_LOCATION
## 
## Feature Value          Counter   Percentage
## -----
## 01 - Non intersection    10546    37.0646
## 02 - Intersection related 8150     28.6437
## 03 - At intersection      6525     22.9326
## 04 - At/near private drive 2932     10.3047
## 05 - At railway crossing   26       0.0914
## 06 - Underpass or tunnel   23       0.0808
## 07 - Overpass or bridge    251      0.8822

```

Plot of Feature:ACCIDENT_LOCATION
Data:All 2009-Only 2009-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_LOCATION  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 7  
##  
## TOP 100 FEATURES OF ACCIDENT_LOCATION  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Non intersection 10262 37.3394  
## 02 - Intersection related 8071 29.3672  
## 03 - At intersection 6269 22.8105  
## 04 - At/near private drive 2665 9.6969  
## 05 - At railway crossing 24 0.0873  
## 06 - Underpass or tunnel 13 0.0473  
## 07 - Overpass or bridge 179 0.6513
```



```
##  

## -----  

## CHECKING FEATURE:ACCIDENT_LOCATION  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 7  

##  

## TOP 100 FEATURES OF ACCIDENT_LOCATION  

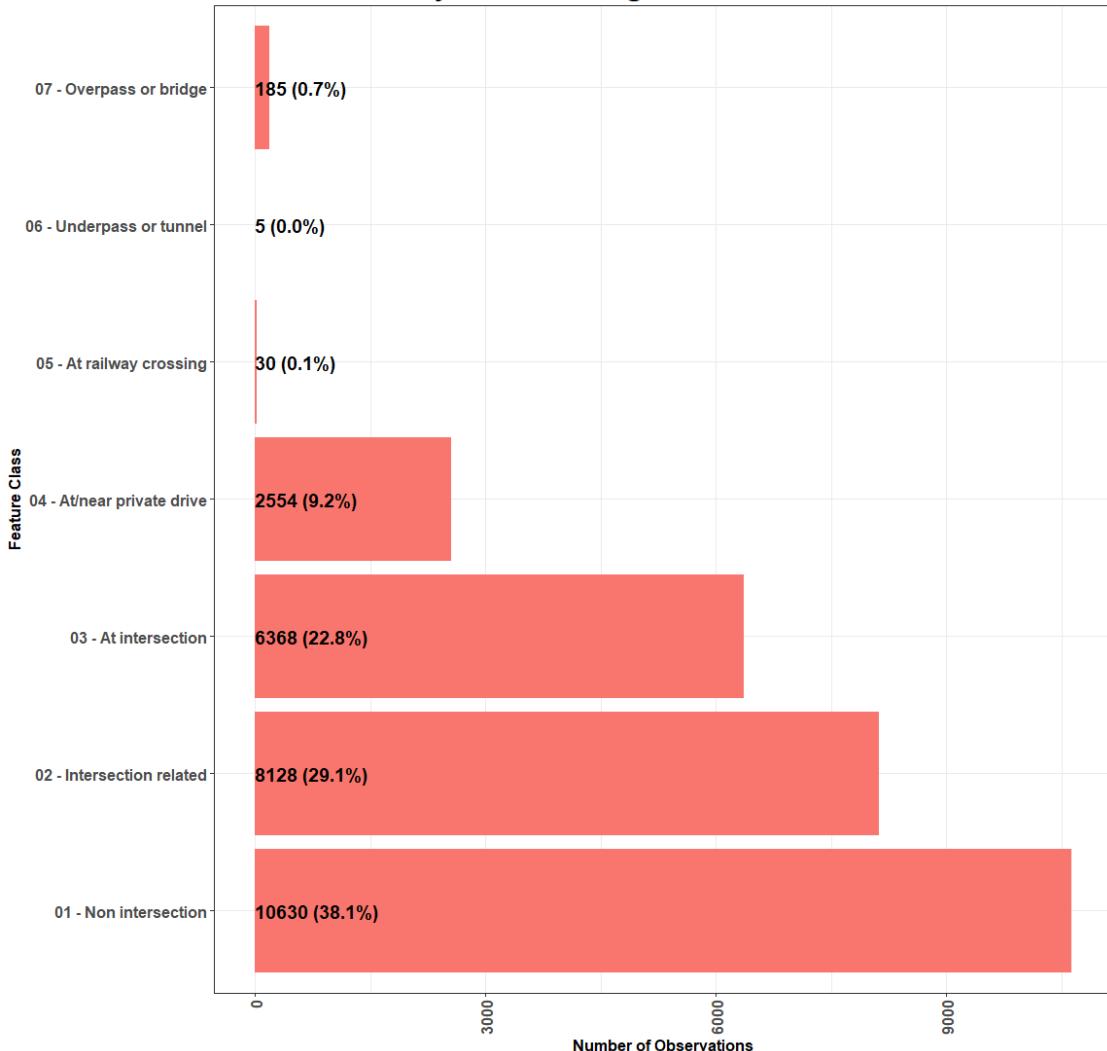
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Non intersection	10630	38.1004
## 02 - Intersection related	8128	29.1326
## 03 - At intersection	6368	22.8244
## 04 - At/near private drive	2554	9.1541
## 05 - At railway crossing	30	0.1075
## 06 - Underpass or tunnel	5	0.0179
## 07 - Overpass or bridge	185	0.6631

Plot of Feature:ACCIDENT_LOCATION
Data:All 2011-Only 2011-Homologated.csv



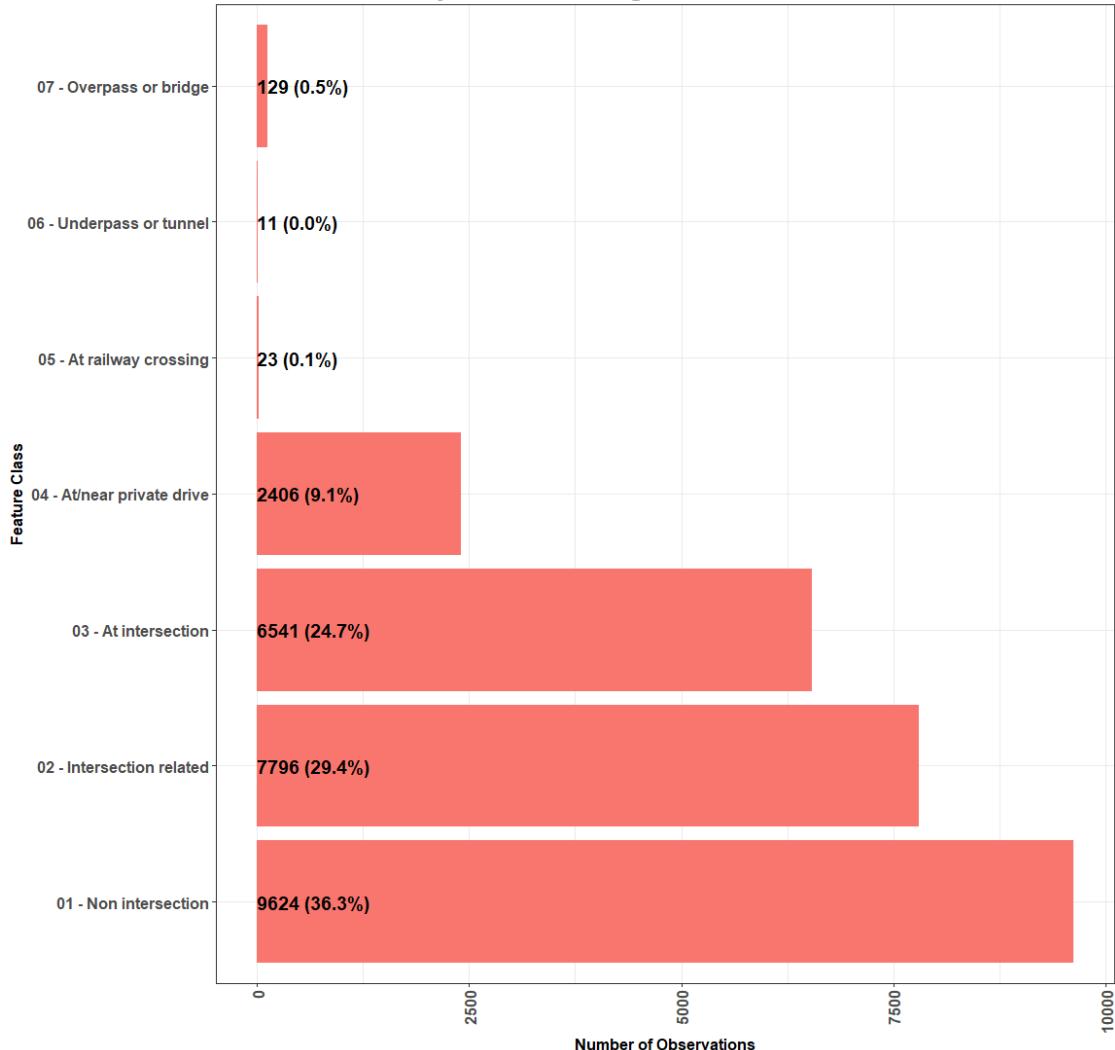
```
##
## -----
## CHECKING FEATURE:ACCIDENT_LOCATION
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
```

```

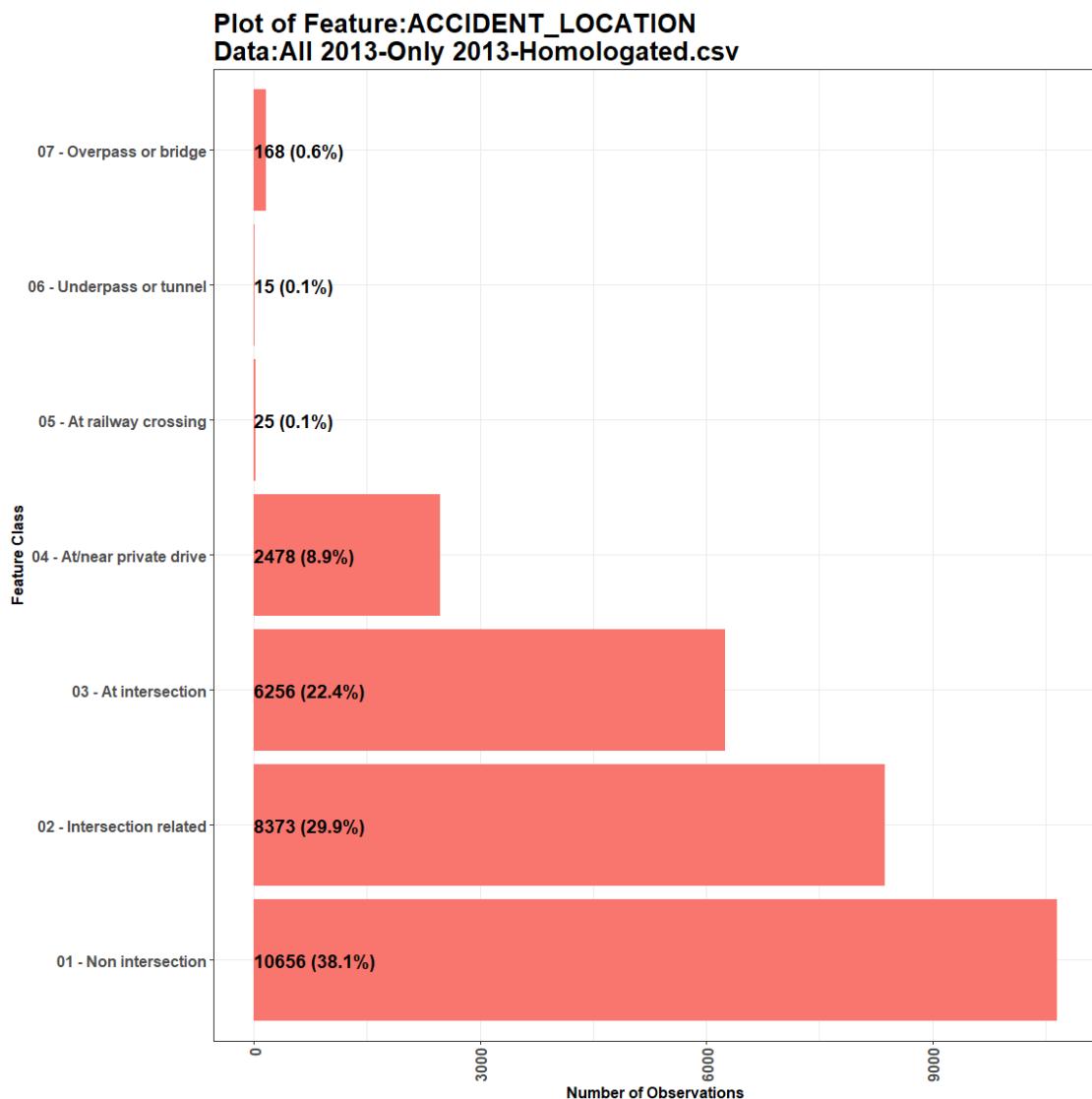
## Summary as Factor Feature:
## 
## Number of Features: 7
## 
## TOP 100 FEATURES OF ACCIDENT_LOCATION
## 
## Feature Value          Counter    Percentage
## -----
## 01 - Non intersection   9624     36.2759
## 02 - Intersection related 7796     29.3856
## 03 - At intersection     6541     24.6551
## 04 - At/near private drive 2406     9.0690
## 05 - At railway crossing  23       0.0867
## 06 - Underpass or tunnel  11       0.0415
## 07 - Overpass or bridge   129      0.4862

```

**Plot of Feature:ACCIDENT_LOCATION
Data:All 2012-Only 2012-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_LOCATION  
## DATA:All 2013-Only 2013-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 7  
##  
## TOP 100 FEATURES OF ACCIDENT_LOCATION  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Non intersection 10656 38.0966  
## 02 - Intersection related 8373 29.9346  
## 03 - At intersection 6256 22.3660  
## 04 - At/near private drive 2478 8.8592  
## 05 - At railway crossing 25 0.0894  
## 06 - Underpass or tunnel 15 0.0536  
## 07 - Overpass or bridge 168 0.6006
```



```
##  

## -----  

## CHECKING FEATURE:ACCIDENT_LOCATION  

## DATA:All 2014-Only 2014-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 7  

##  

## TOP 100 FEATURES OF ACCIDENT_LOCATION  

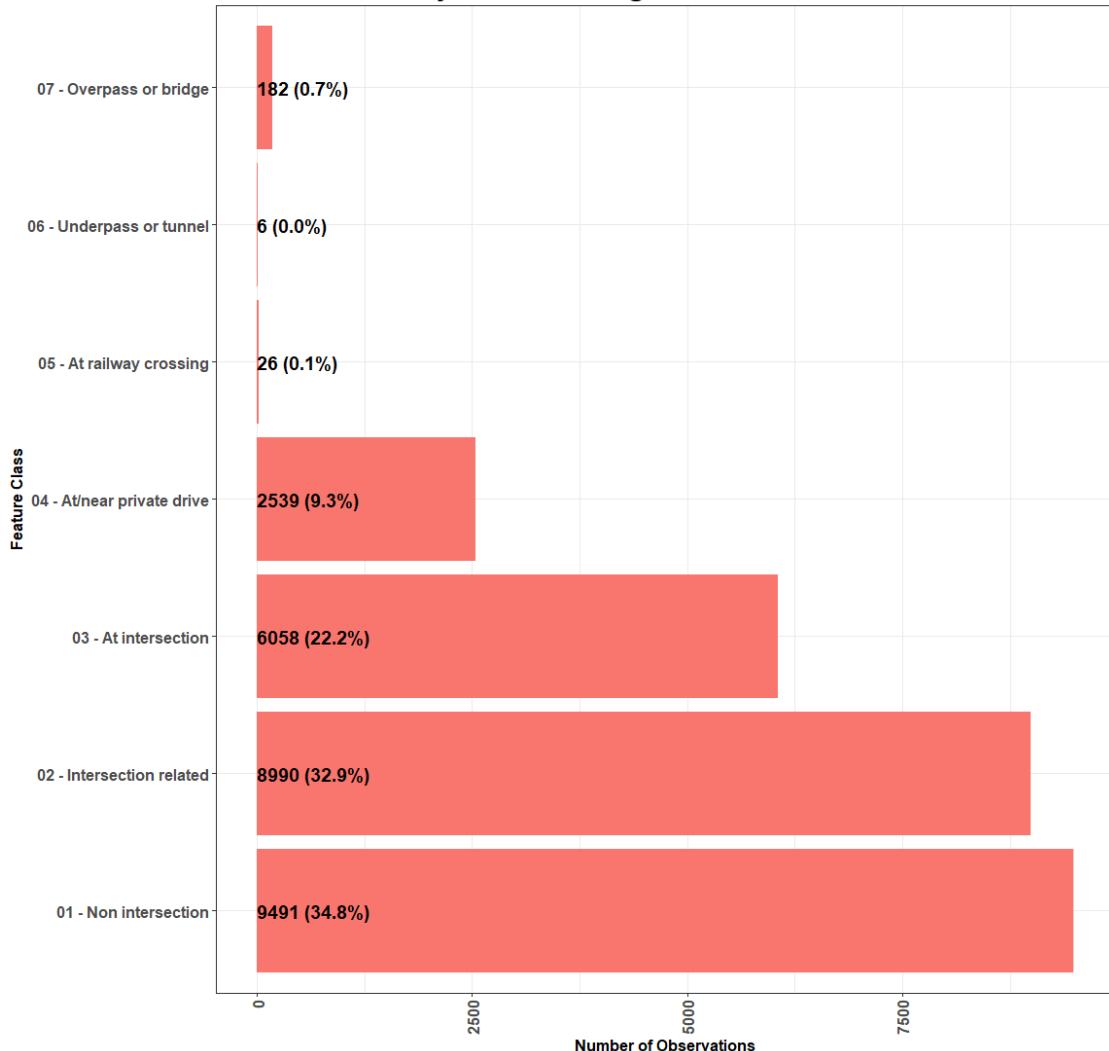
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Non intersection	9491	34.7758
## 02 - Intersection related	8990	32.9401
## 03 - At intersection	6058	22.1970
## 04 - At/near private drive	2539	9.3031
## 05 - At railway crossing	26	0.0953
## 06 - Underpass or tunnel	6	0.0220
## 07 - Overpass or bridge	182	0.6669

Plot of Feature:ACCIDENT_LOCATION
Data:All 2014-Only 2014-Homologated.csv



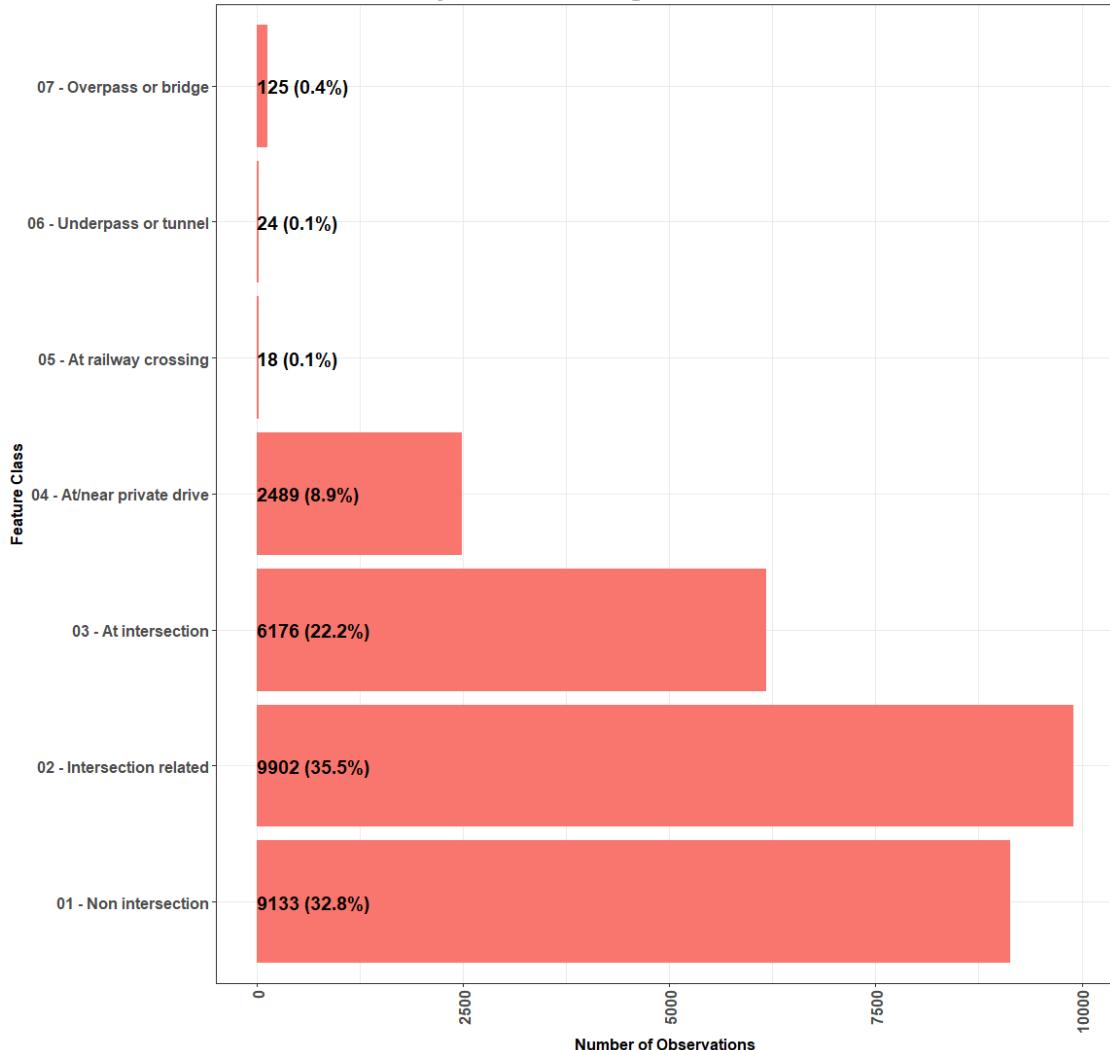
```
##
## -----
## CHECKING FEATURE:ACCIDENT_LOCATION
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
```

```

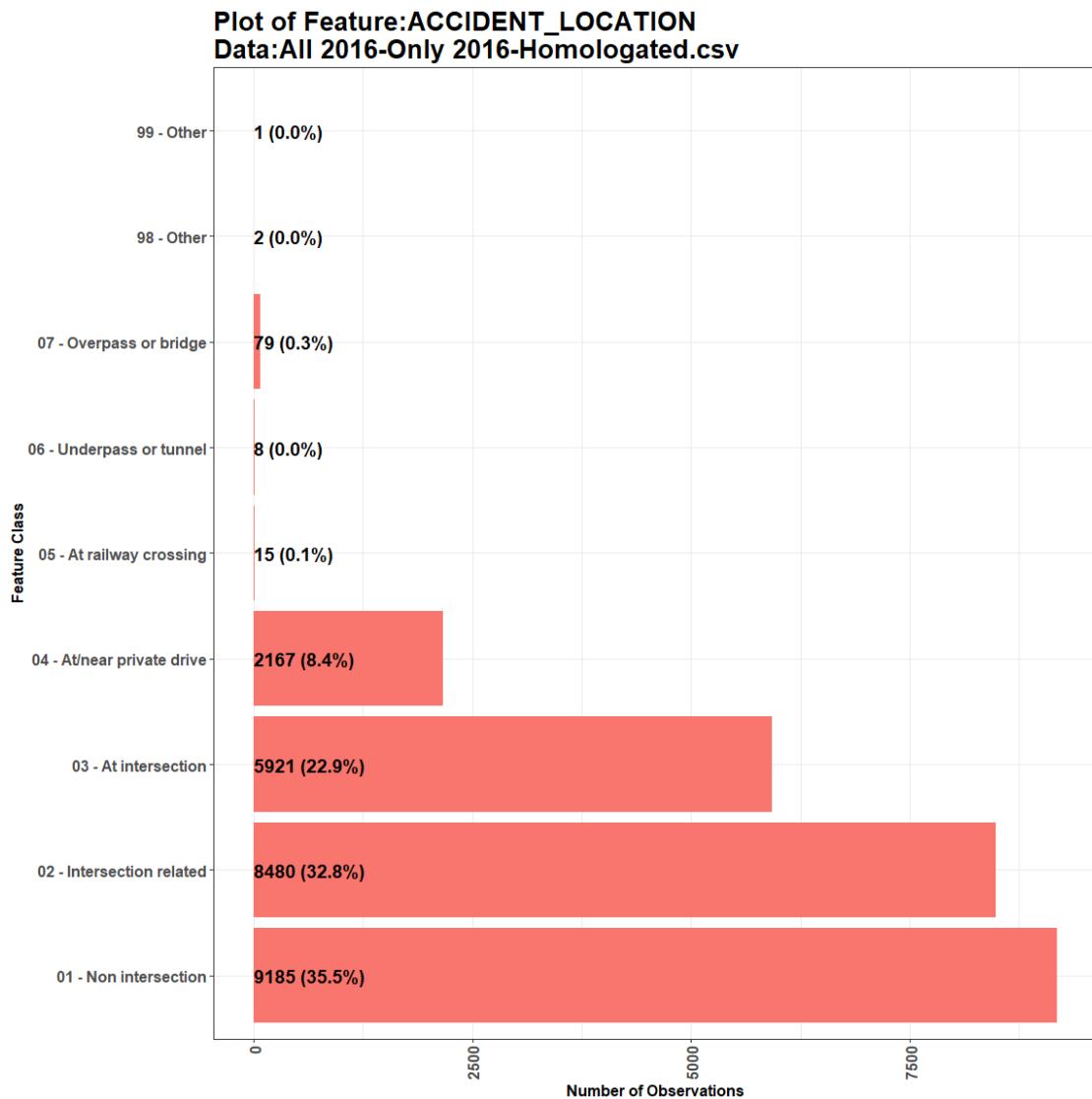
## Summary as Factor Feature:
## 
## Number of Features: 7
## 
## TOP 100 FEATURES OF ACCIDENT_LOCATION
## 
## Feature Value          Counter   Percentage
## -----
## 01 - Non intersection    9133    32.7735
## 02 - Intersection related 9902    35.5331
## 03 - At intersection      6176    22.1624
## 04 - At/near private drive 2489    8.9317
## 05 - At railway crossing     18    0.0646
## 06 - Underpass or tunnel     24    0.0861
## 07 - Overpass or bridge      125   0.4486

```

Plot of Feature:ACCIDENT_LOCATION
Data:All 2015-Only 2015-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_LOCATION  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 9  
##  
## TOP 100 FEATURES OF ACCIDENT_LOCATION  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Non intersection 9185 35.5209  
## 02 - Intersection related 8480 32.7945  
## 03 - At intersection 5921 22.8981  
## 04 - At/near private drive 2167 8.3804  
## 05 - At railway crossing 15 0.0580  
## 06 - Underpass or tunnel 8 0.0309  
## 07 - Overpass or bridge 79 0.3055  
## 98 - Other 2 0.0077  
## 99 - Other 1 0.0039
```



```
##  

## -----  

## CHECKING FEATURE:ACCIDENT_LOCATION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF ACCIDENT_LOCATION  

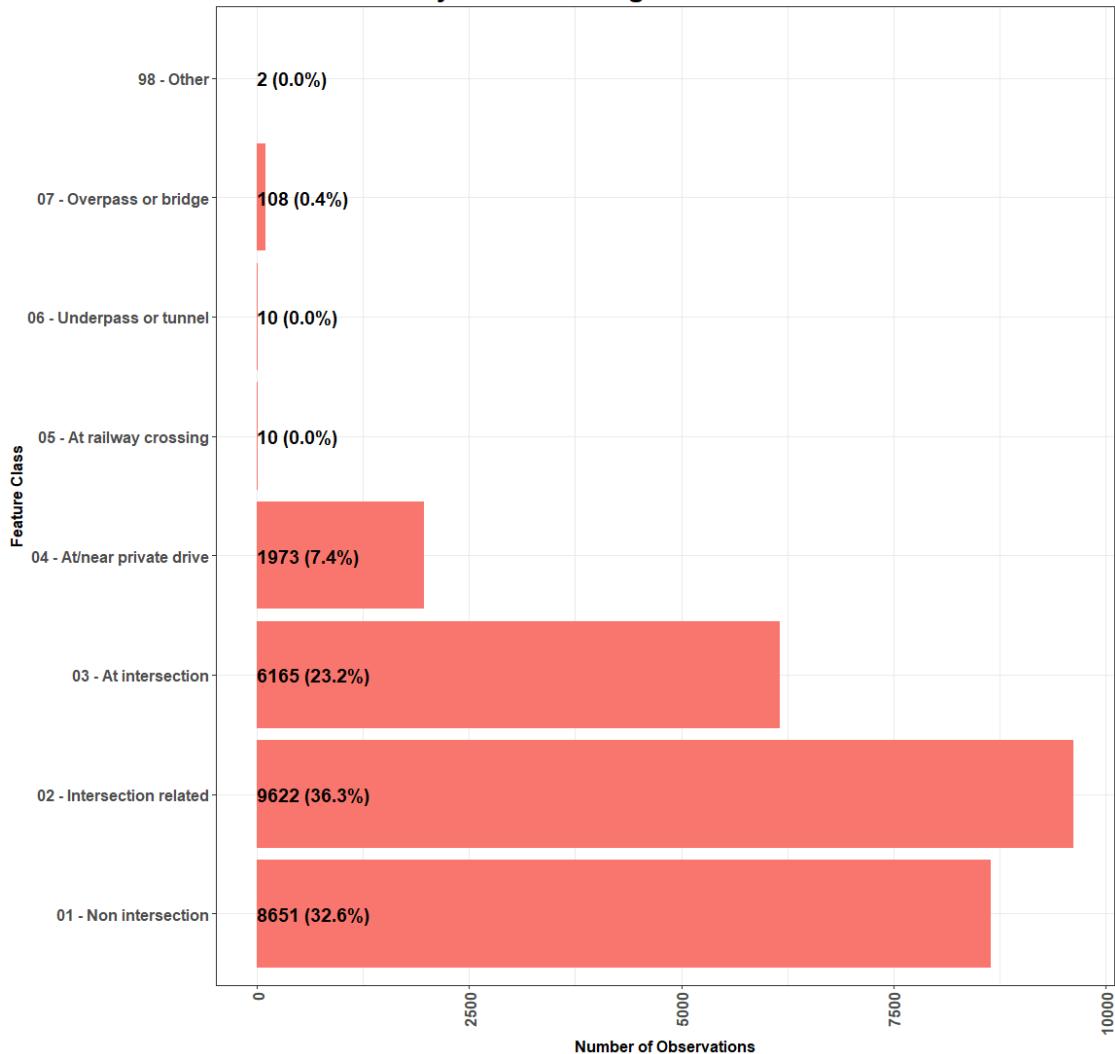
##  

## Feature Value Counter Percentage  

## -----
```

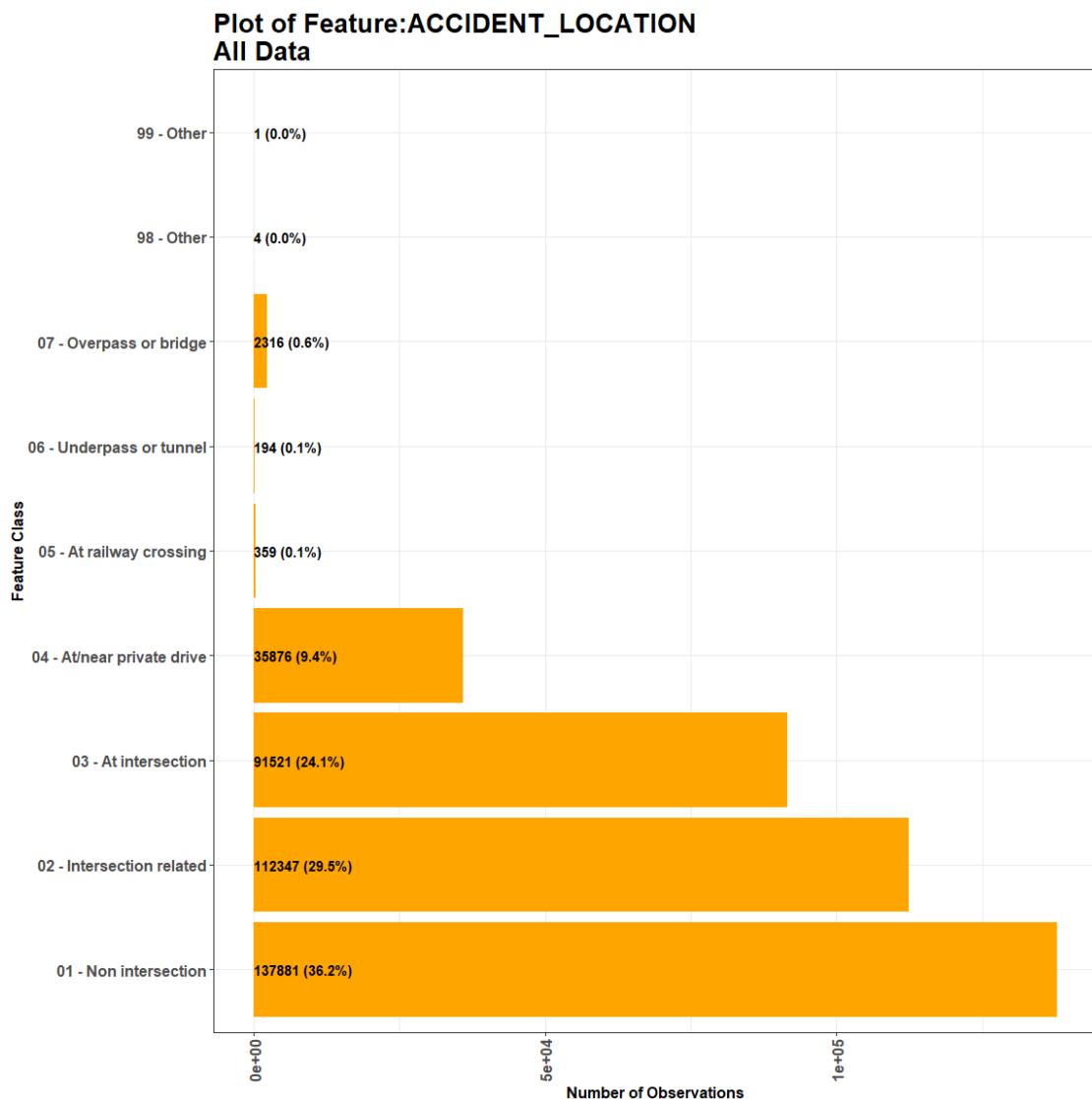
## 01 - Non intersection	8651	32.5949
## 02 - Intersection related	9622	36.2533
## 03 - At intersection	6165	23.2282
## 04 - At/near private drive	1973	7.4338
## 05 - At railway crossing	10	0.0377
## 06 - Underpass or tunnel	10	0.0377
## 07 - Overpass or bridge	108	0.4069
## 98 - Other	2	0.0075

Plot of Feature:ACCIDENT_LOCATION
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:ACCIDENT_LOCATION
## ALL DATA...
## =====
##
```

```
## Number of Blank Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 25669 26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 26073 27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 28502 28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 27483 27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 26530 27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 27292 27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 25858 26541
##
## Summary as Factor Feature:
## Number of Features: 9
```



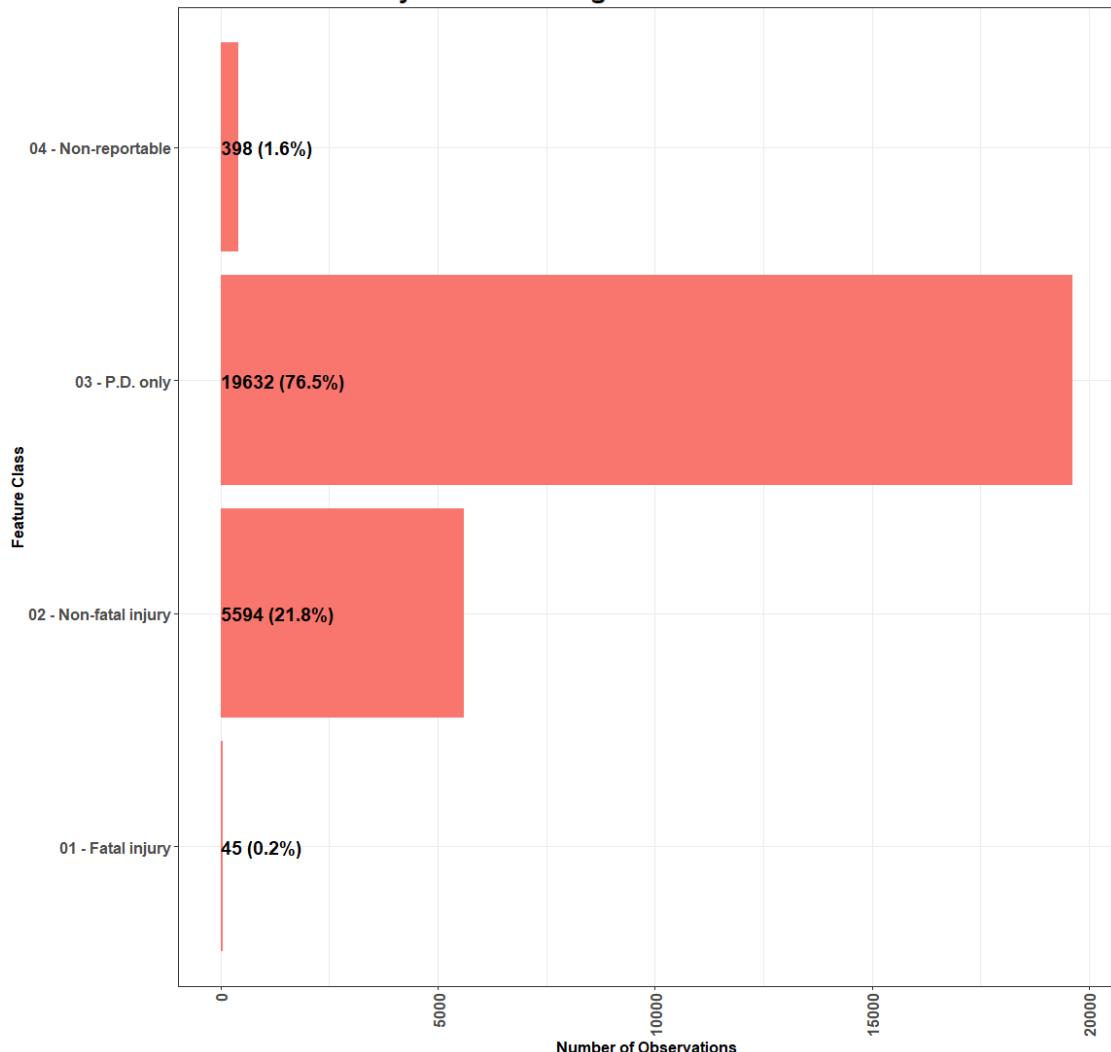
```
## [1] "TOP 100 FEATURES COUNTERS OF:ACCIDENT_LOCATION"
```

Feature Value	Counter	Percentage
01 - Non intersection	137881	36.2369
02 - Intersection related	112347	29.5262
03 - At intersection	91521	24.0529
04 - At/near private drive	35876	9.4287
05 - At railway crossing	359	0.0943
06 - Underpass or tunnel	194	0.0510
07 - Overpass or bridge	2316	0.6087
98 - Other	4	0.0011
99 - Other	1	0.0003

2. Classification of Accident (CLASSIFICATION_OF_ACCIDENT)

```
##  
## -----  
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  
##  
## Feature Value Counter Percentage  
## ----- -----  
## 01 - Fatal injury 45 0.1753  
## 02 - Non-fatal injury 5594 21.7928  
## 03 - P.D. only 19632 76.4814  
## 04 - Non-reportable 398 1.5505
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2004-Only 2004-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  

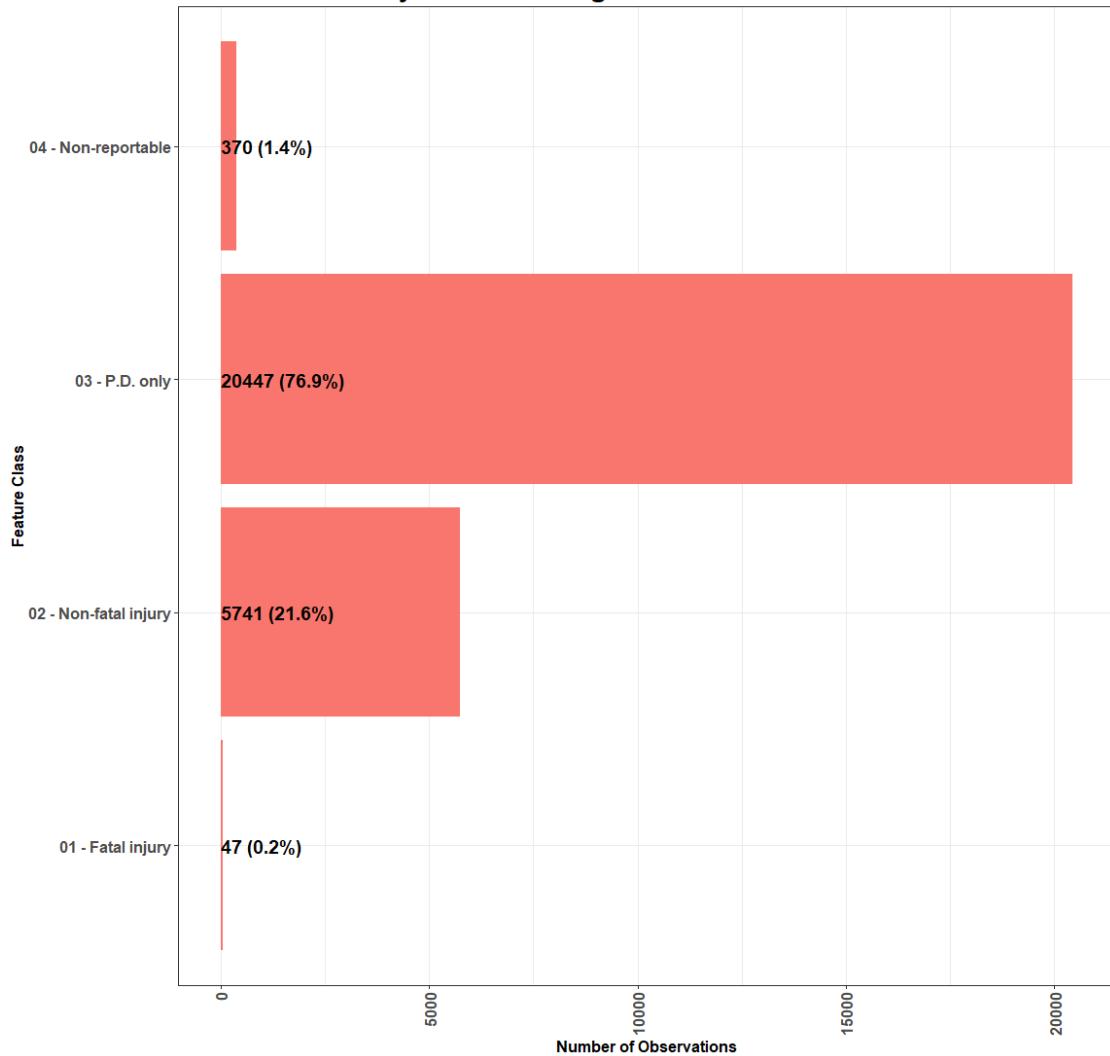
##  

## Feature Value          Counter    Percentage  

## -----
```

## 01 - Fatal injury	47	0.1767
## 02 - Non-fatal injury	5741	21.5787
## 03 - P.D. only	20447	76.8540
## 04 - Non-reportable	370	1.3907

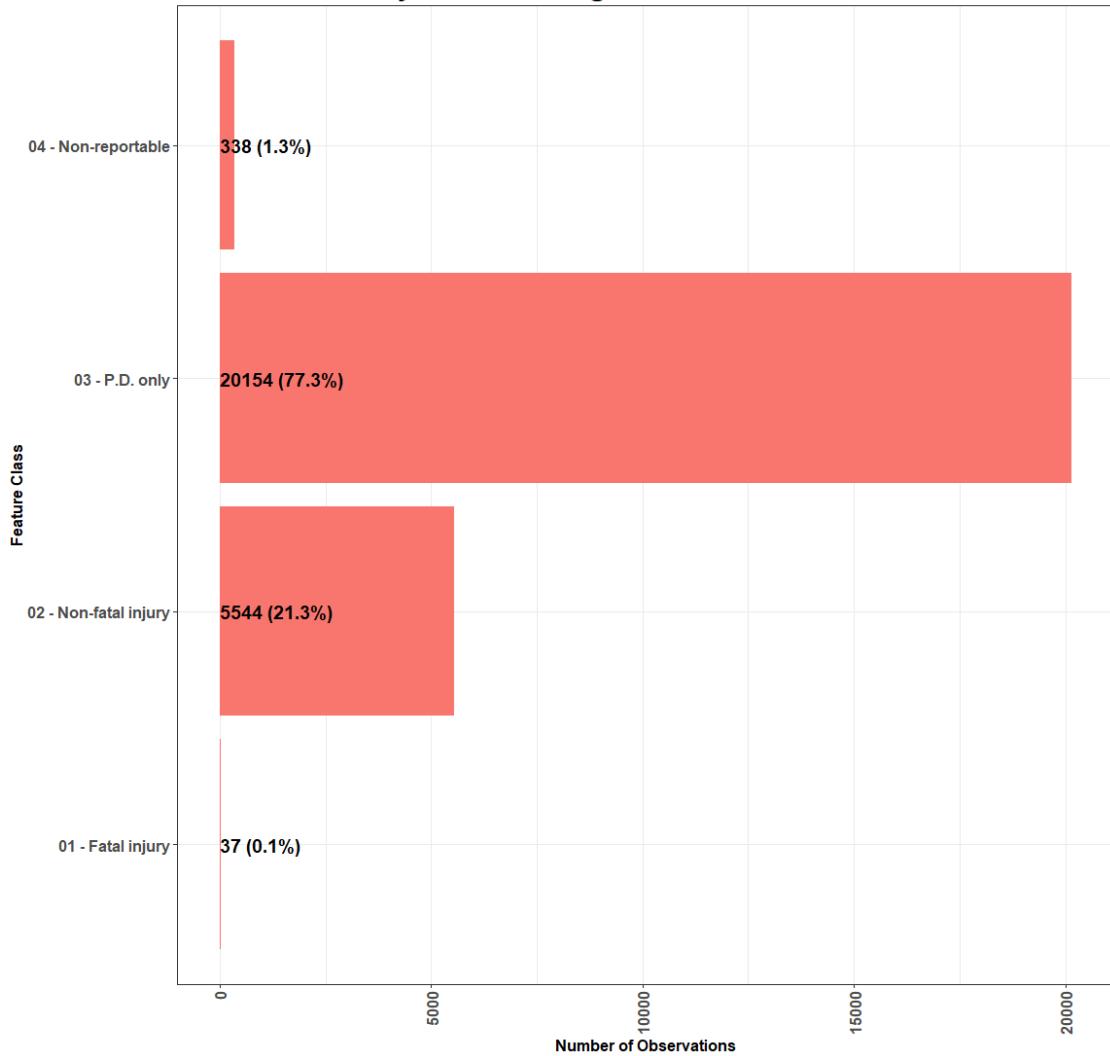
Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data>All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## DATA>All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT
##
## Feature Value Counter Percentage
## -----
## 01 - Fatal injury 37 0.1419
## 02 - Non-fatal injury 5544 21.2634
## 03 - P.D. only 20154 77.2984
## 04 - Non-reportable 338 1.2964
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2006-Only 2006-Homologated.csv



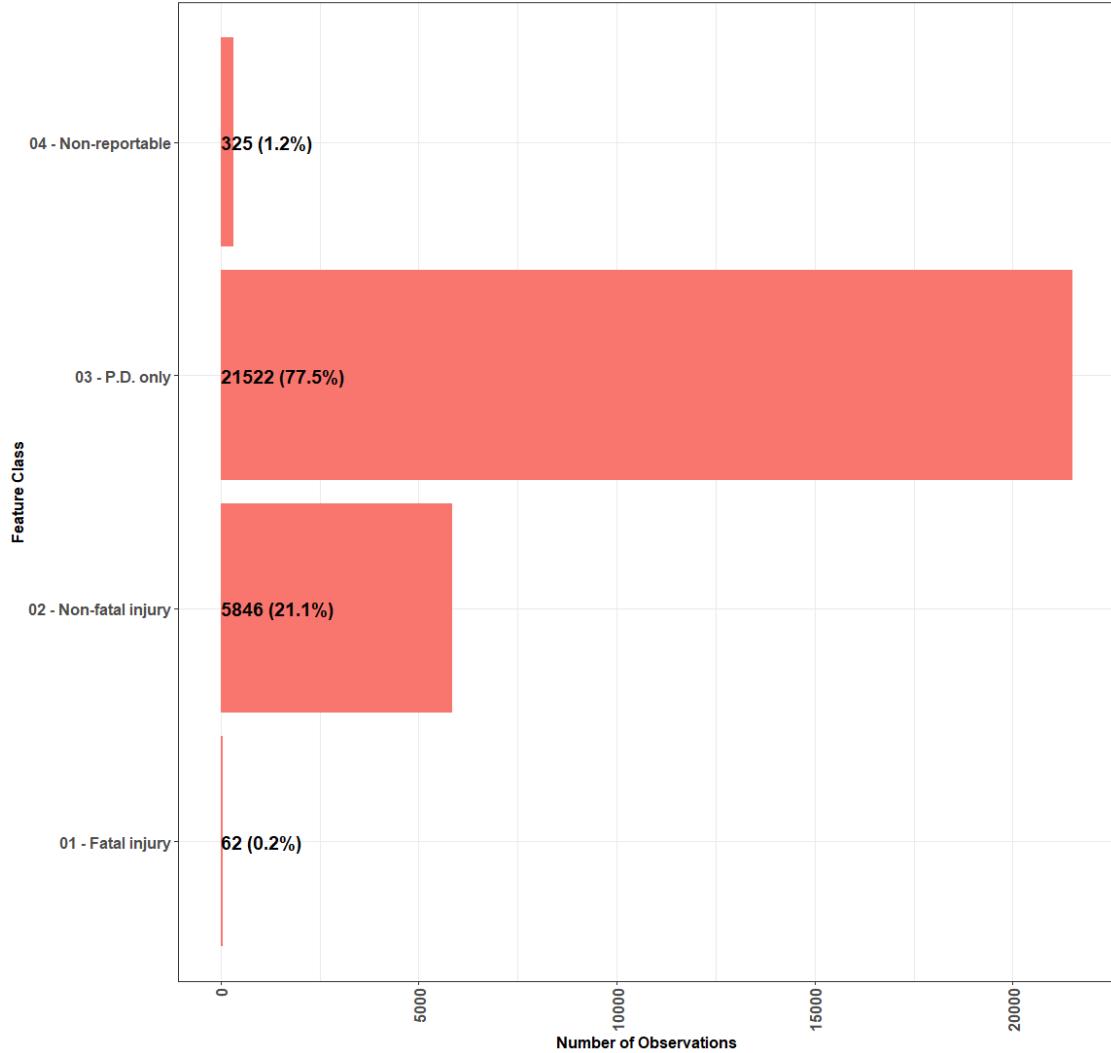
```
##
## -----
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## DATA:All 2007-Only 2007-Homologated.csv...
##
```

```

## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
##
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT
##
## Feature Value          Counter   Percentage
## ----- - -----
## 01 - Fatal injury      62        0.2234
## 02 - Non-fatal injury   5846      21.0629
## 03 - P.D. only          21522     77.5428
## 04 - Non-reportable    325       1.1710

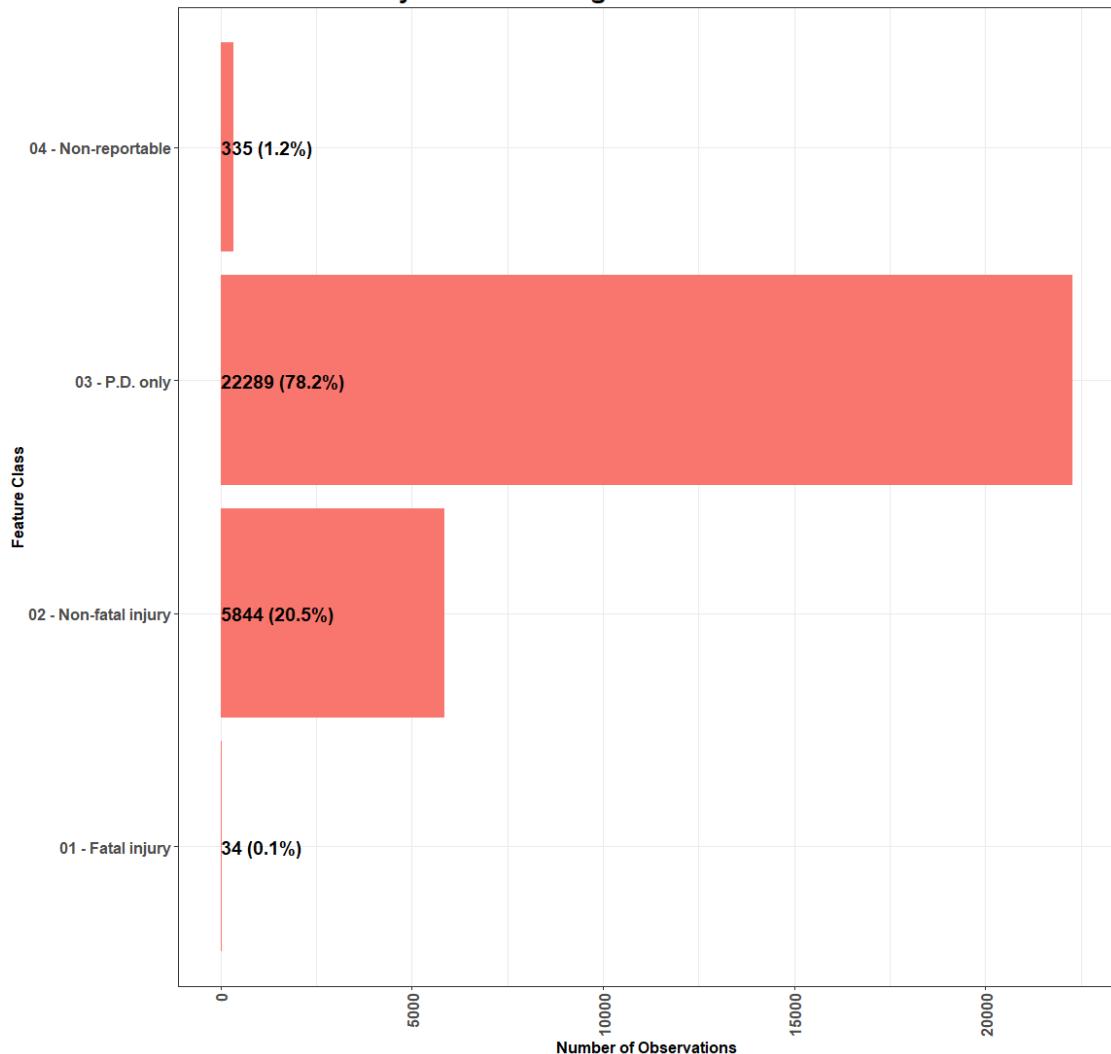
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data>All 2007-Only 2007-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  
## DATA:All 2008-Only 2008-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Fatal injury 34 0.1193  
## 02 - Non-fatal injury 5844 20.5038  
## 03 - P.D. only 22289 78.2015  
## 04 - Non-reportable 335 1.1754
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2008-Only 2008-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  

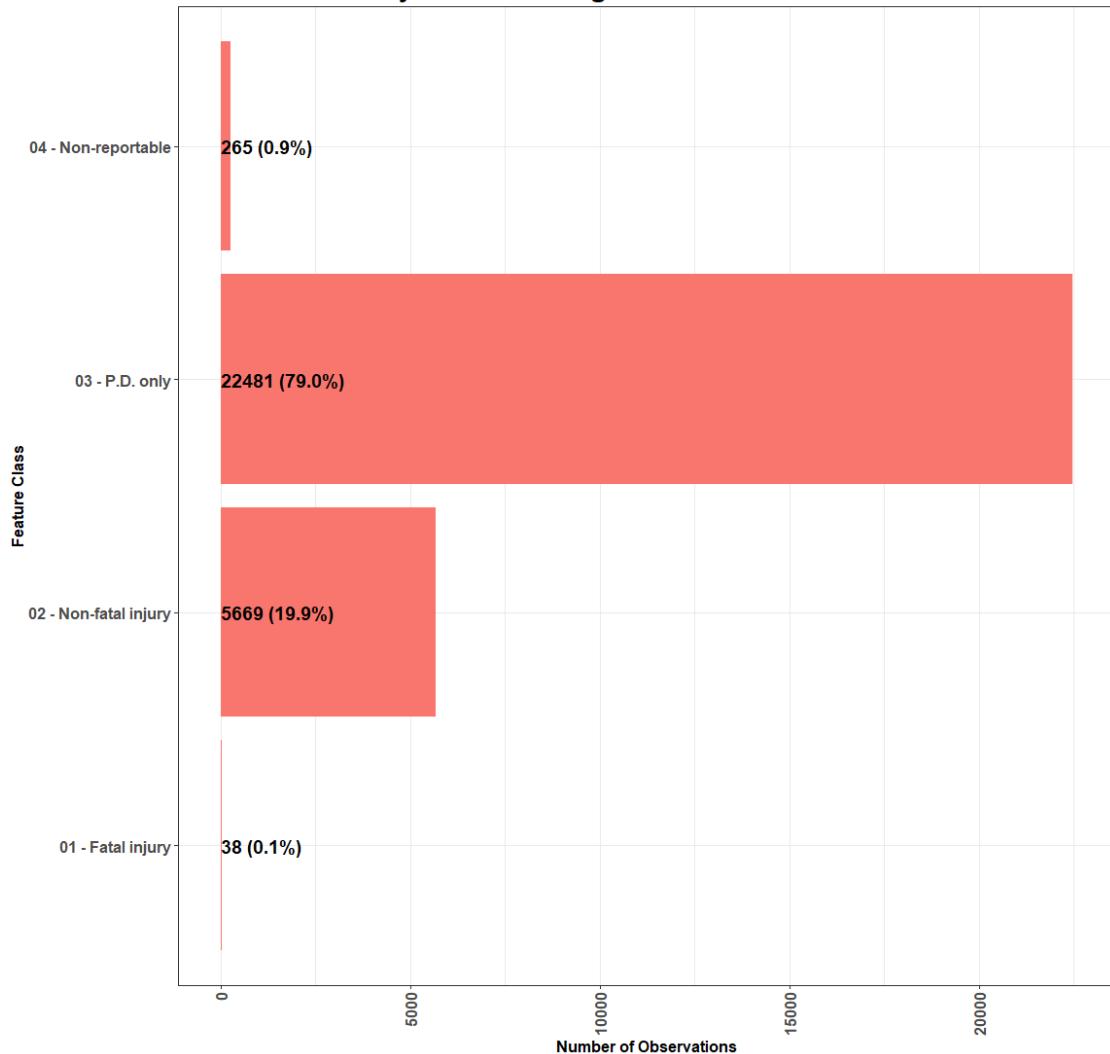
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Fatal injury	38	0.1336
## 02 - Non-fatal injury	5669	19.9241
## 03 - P.D. only	22481	79.0110
## 04 - Non-reportable	265	0.9314

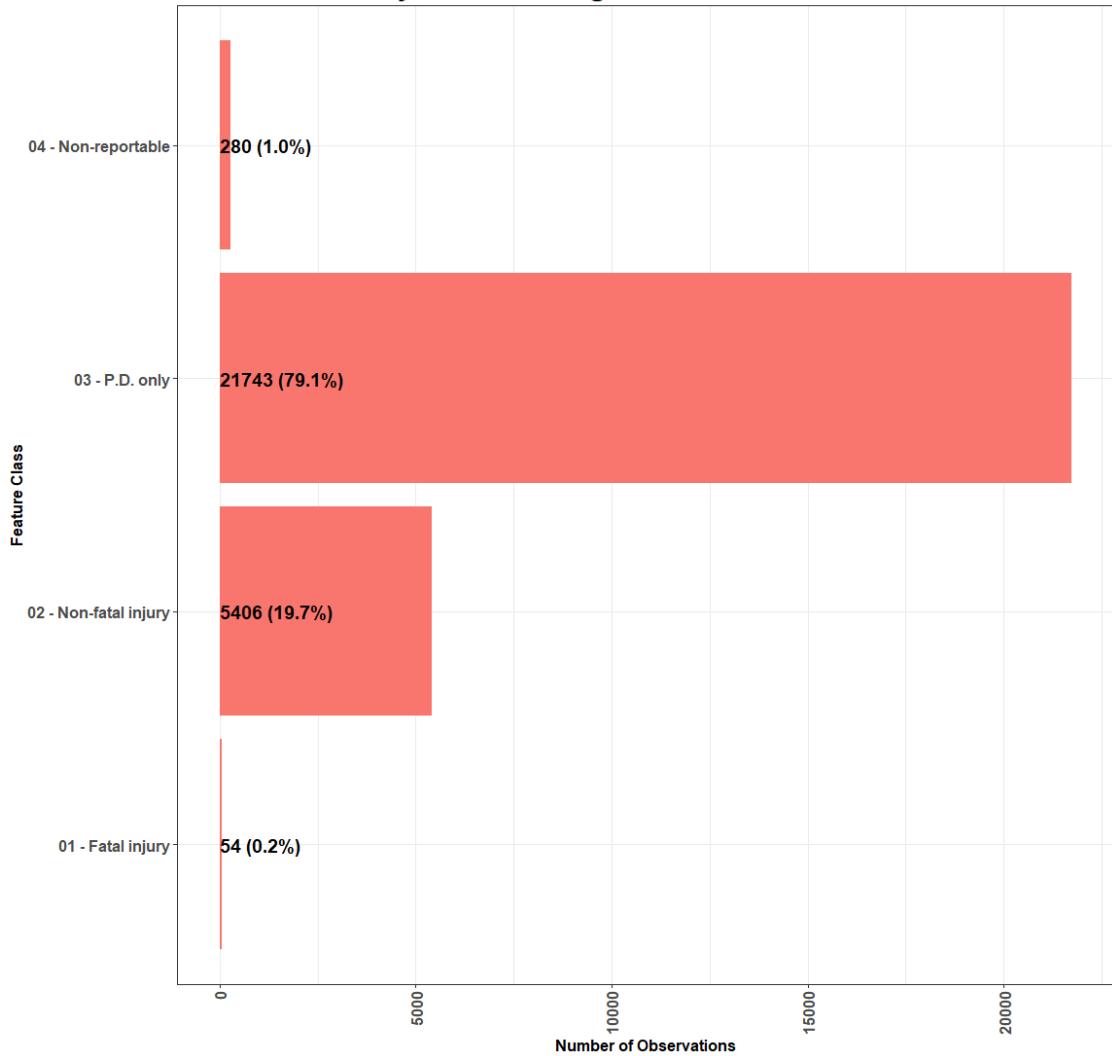
Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data>All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## DATA>All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT
##
## Feature Value Counter Percentage
## -----
## 01 - Fatal injury 54 0.1965
## 02 - Non-fatal injury 5406 19.6703
## 03 - P.D. only 21743 79.1144
## 04 - Non-reportable 280 1.0188
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2010-Only 2010-Homologated.csv



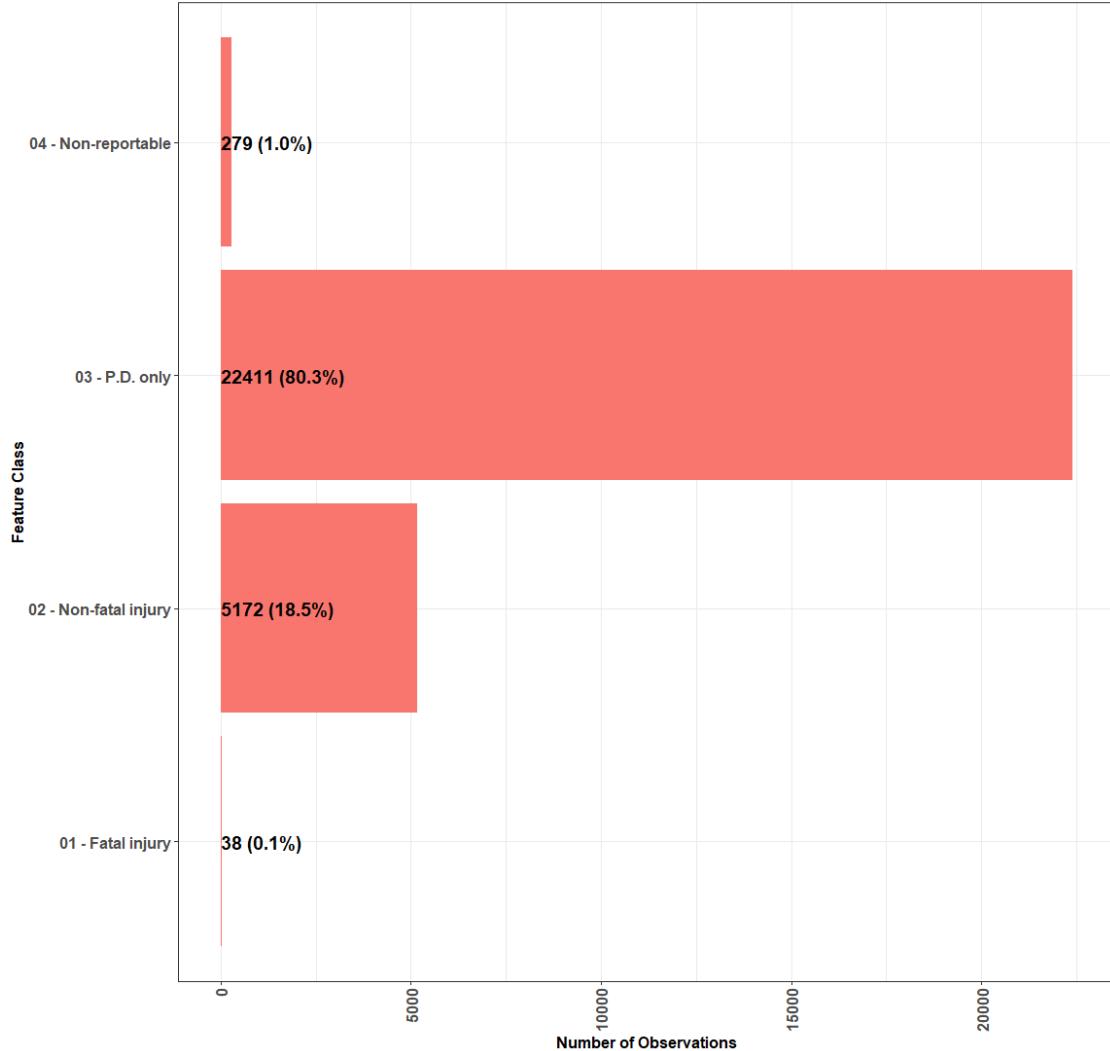
```
##
## -----
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## DATA:All 2011-Only 2011-Homologated.csv...
##
```

```

## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
##
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT
##
## Feature Value          Counter   Percentage
## ----- - ----- - -----
## 01 - Fatal injury      38        0.1362
## 02 - Non-fatal injury   5172      18.5376
## 03 - P.D. only          22411     80.3262
## 04 - Non-reportable    279       1.0000

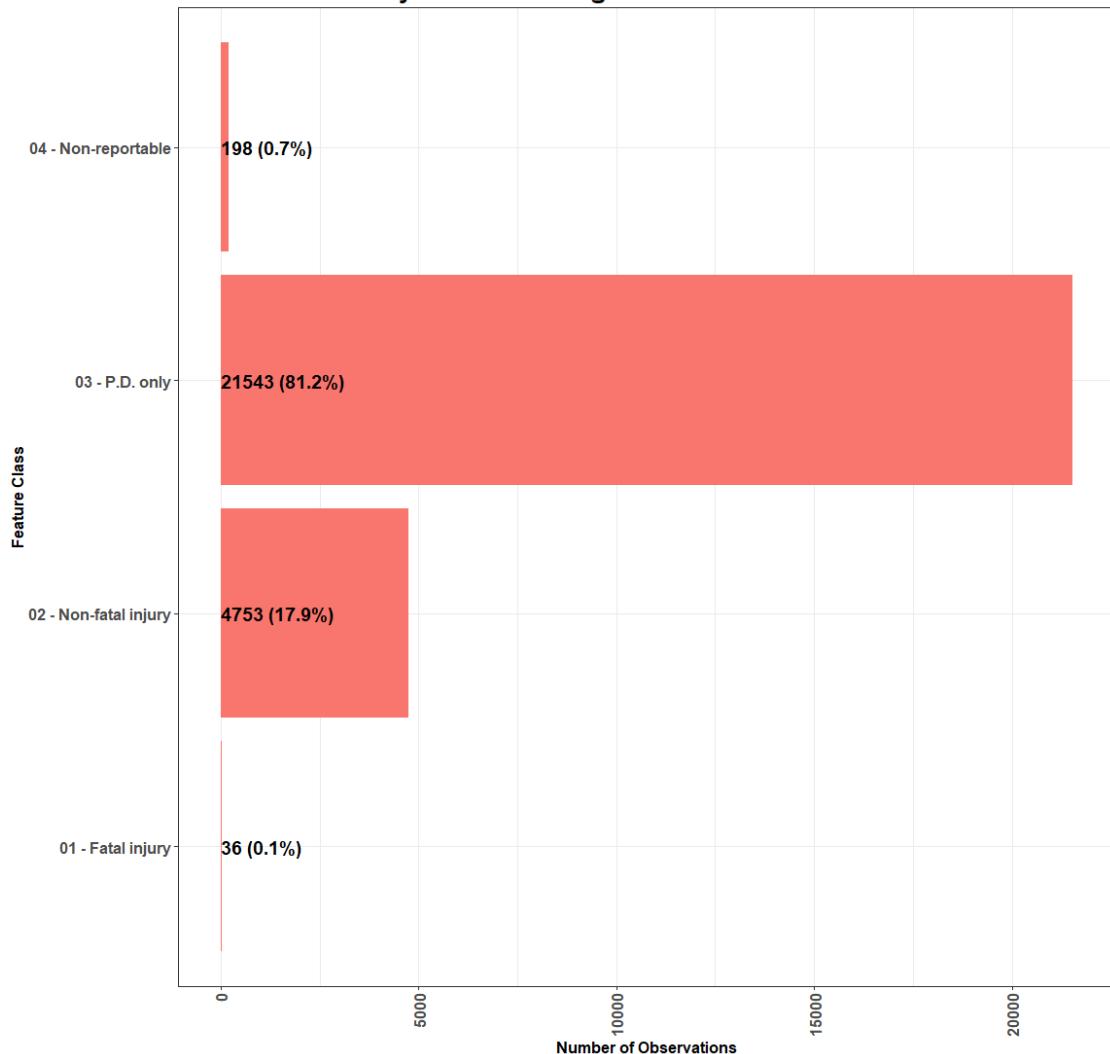
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2011-Only 2011-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  
## DATA:All 2012-Only 2012-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Fatal injury 36 0.1357  
## 02 - Non-fatal injury 4753 17.9156  
## 03 - P.D. only 21543 81.2024  
## 04 - Non-reportable 198 0.7463
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2012-Only 2012-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  

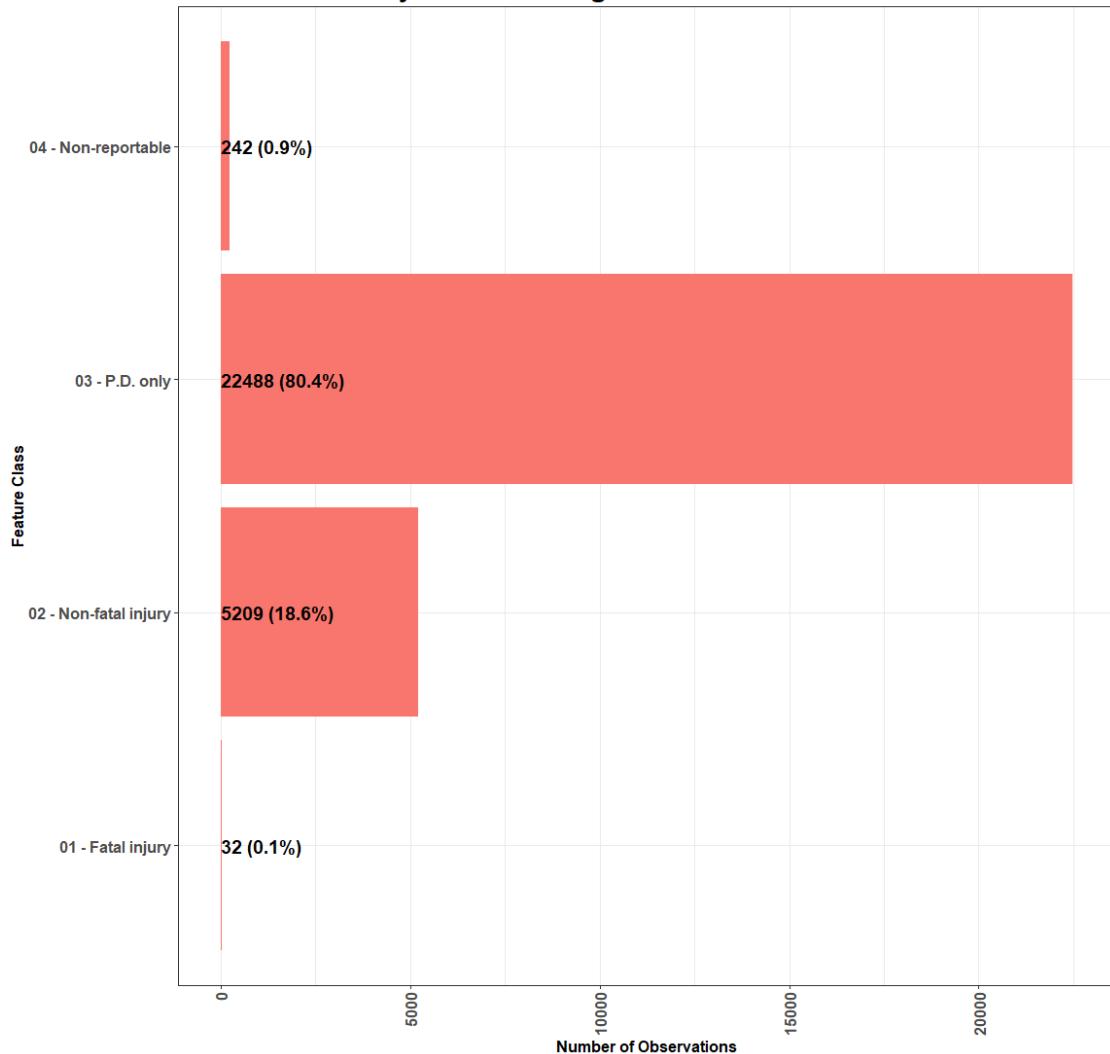
##  

## Feature Value          Counter    Percentage  

## -----
```

## 01 - Fatal injury	32	0.1144
## 02 - Non-fatal injury	5209	18.6229
## 03 - P.D. only	22488	80.3976
## 04 - Non-reportable	242	0.8652

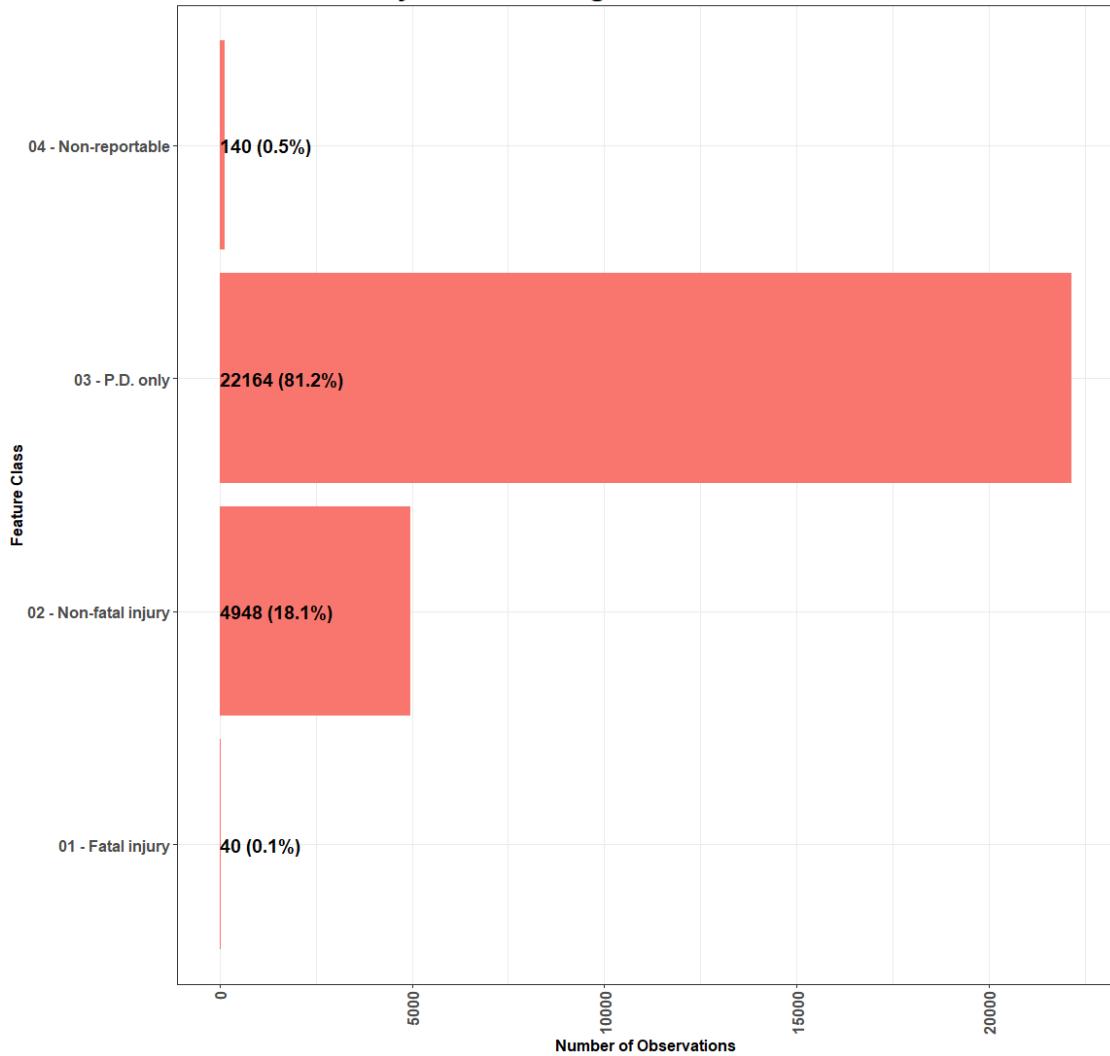
Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data>All 2013-Only 2013-Homologated.csv



```
##
## -----
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## DATA>All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT
##
## Feature Value Counter Percentage
## -----
## 01 - Fatal injury 40 0.1466
## 02 - Non-fatal injury 4948 18.1299
## 03 - P.D. only 22164 81.2106
## 04 - Non-reportable 140 0.5130
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2014-Only 2014-Homologated.csv



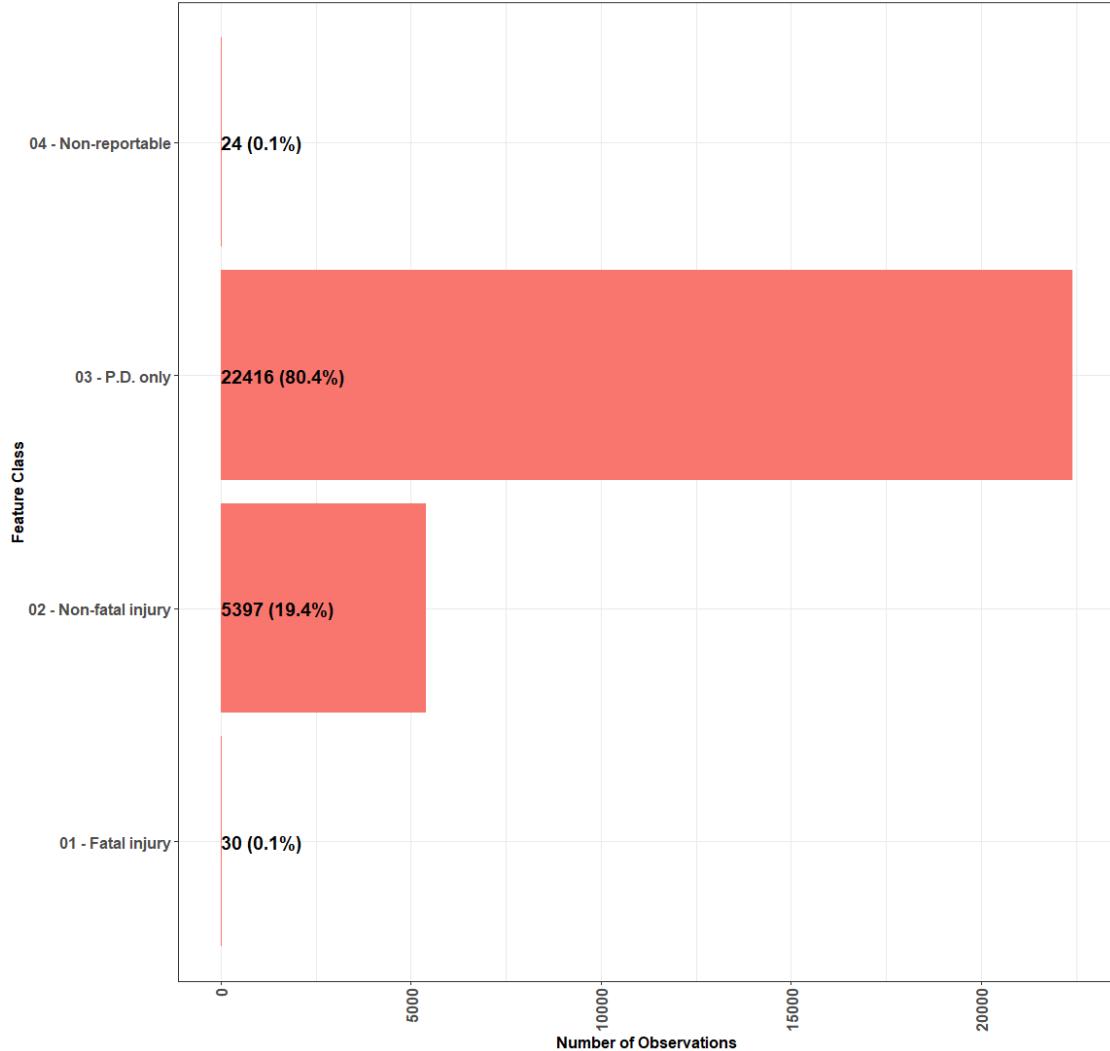
```
##
## -----
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## DATA:All 2015-Only 2015-Homologated.csv...
##
```

```

## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
##
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT
##
## Feature Value          Counter   Percentage
## ----- - -----
## 01 - Fatal injury      30        0.1077
## 02 - Non-fatal injury   5397      19.3670
## 03 - P.D. only          22416     80.4392
## 04 - Non-reportable    24        0.0861

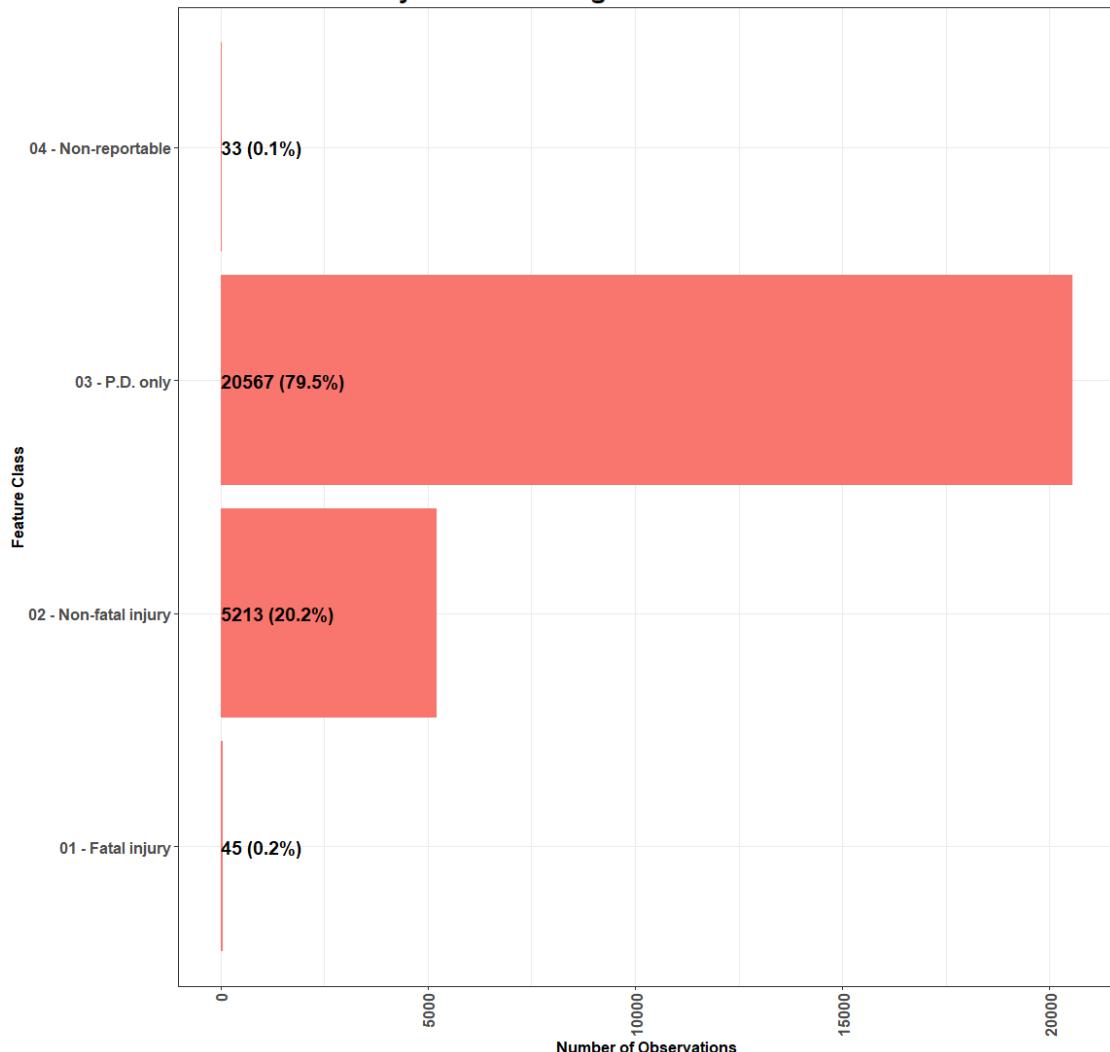
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2015-Only 2015-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Fatal injury 45 0.1740  
## 02 - Non-fatal injury 5213 20.1601  
## 03 - P.D. only 20567 79.5382  
## 04 - Non-reportable 33 0.1276
```

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF CLASSIFICATION_OF_ACCIDENT  

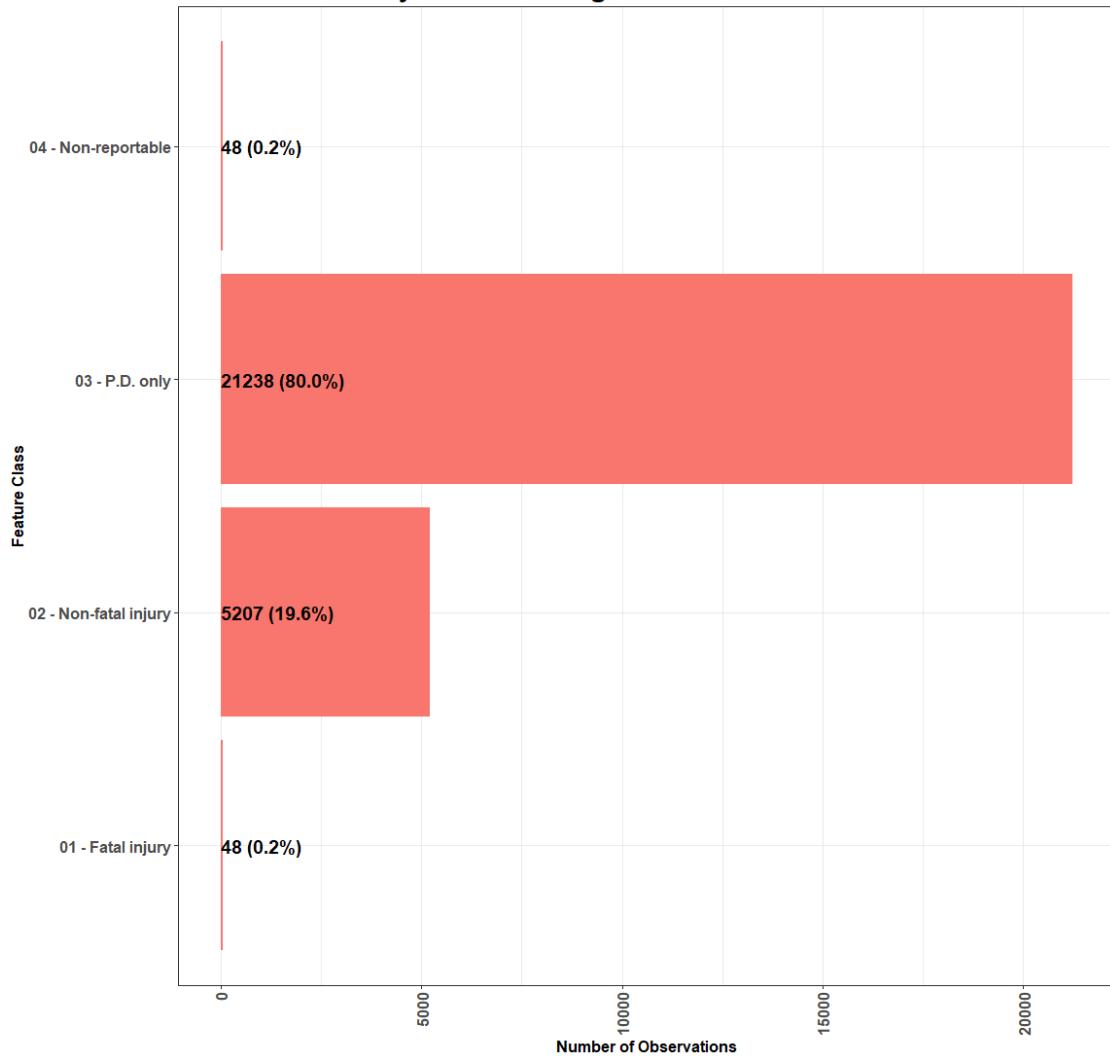
##  

## Feature Value          Counter    Percentage  

## -----
```

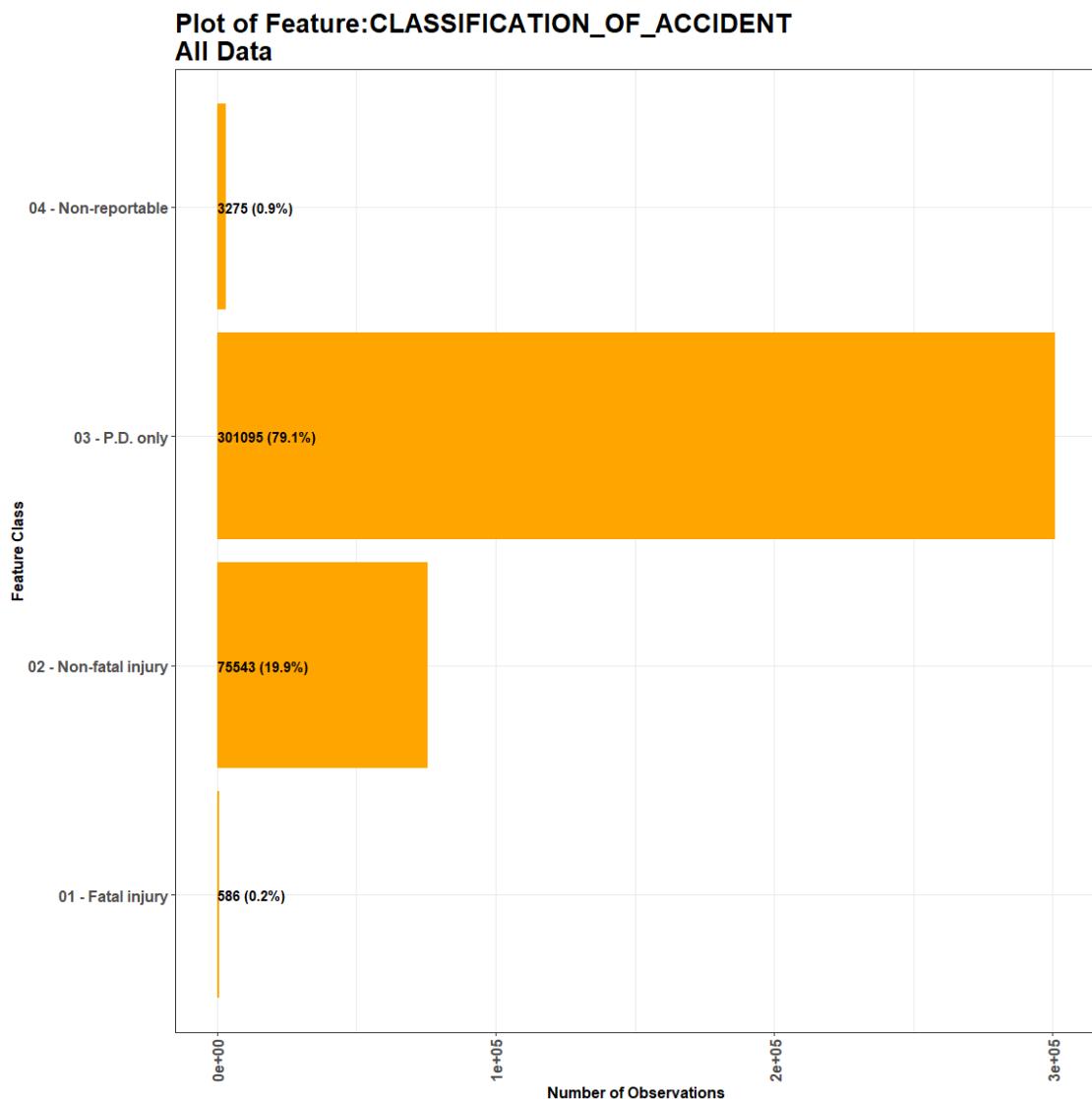
## 01 - Fatal injury	48	0.1809
## 02 - Non-fatal injury	5207	19.6187
## 03 - P.D. only	21238	80.0196
## 04 - Non-reportable	48	0.1809

Plot of Feature:CLASSIFICATION_OF_ACCIDENT
Data>All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:CLASSIFICATION_OF_ACCIDENT
## ALL DATA...
## =====
##
## Number of Blank Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
```

```
##          25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##          26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858          26541
##
##
## Summary as Factor Feature:
## Number of Features: 4
```



```
## [1] "TOP 100 FEATURES COUNTERS OF:CLASSIFICATION_OF_ACCIDENT"
```

Feature Value	Counter	Percentage
01 - Fatal injury	586	0.1540
02 - Non-fatal injury	75543	19.8537
03 - P.D. only	301095	79.1316
04 - Non-reportable	3275	0.8607

3. Driver Condition (DRIVER_CONDITION)

```
##  
## -----  
## CHECKING FEATURE:DRIVER_CONDITION
```

```
## DATA:All 2004-Only 2004-Homologated.csv...
```

```
##
```

```
## Number of Blank Values:0
```

```
##
```

```
## Summary as Factor Feature:
```

```
##
```

```
## Number of Features: 10
```

```
##
```

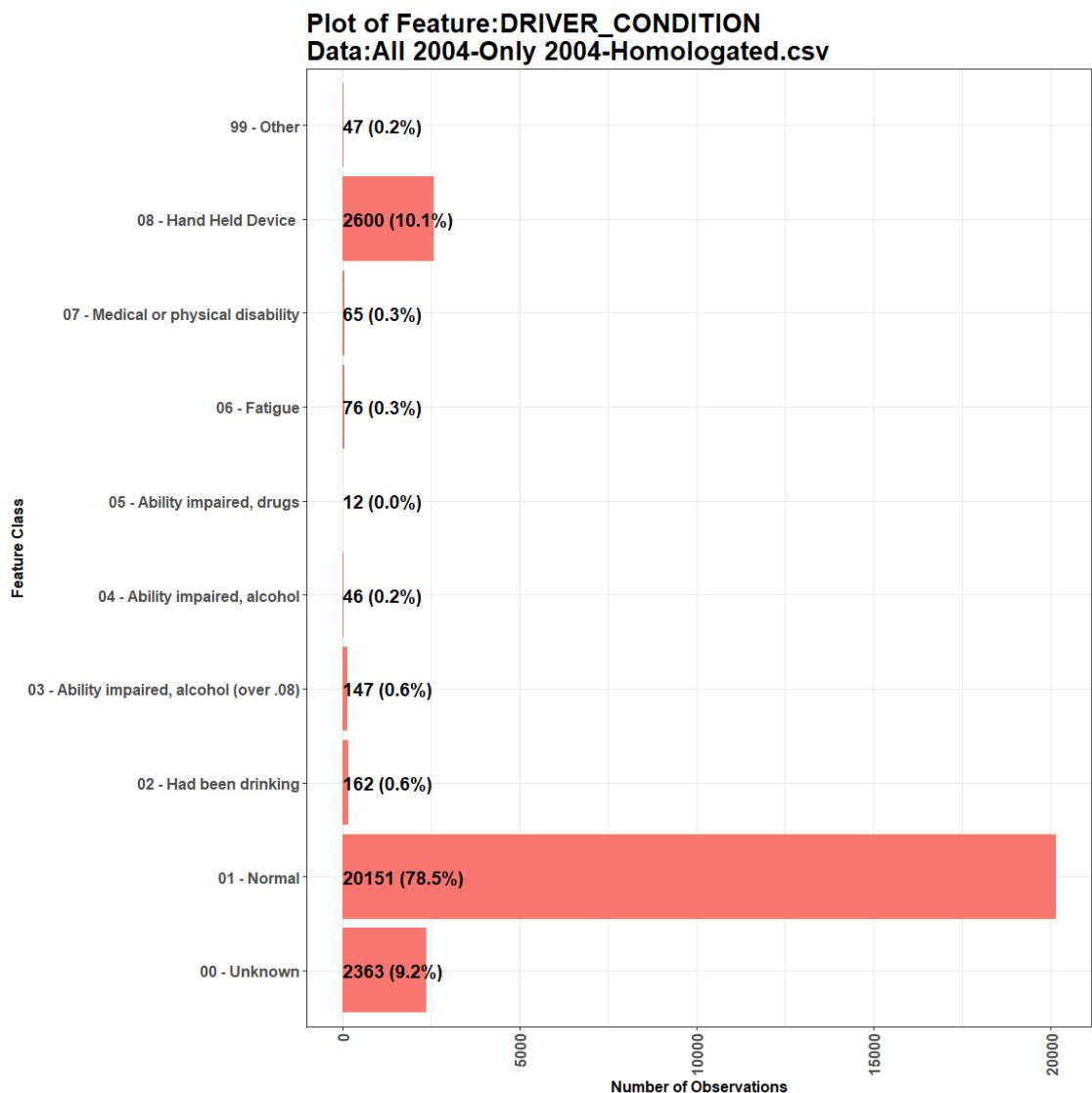
```
## TOP 100 FEATURES OF DRIVER_CONDITION
```

```
##
```

## Feature Value	Counter	Percentage
------------------	---------	------------

```
## -----
```

## 00 - Unknown	2363	9.2057
## 01 - Normal	20151	78.5033
## 02 - Had been drinking	162	0.6311
## 03 - Ability impaired, alcohol (over .08)	147	0.5727
## 04 - Ability impaired, alcohol	46	0.1792
## 05 - Ability impaired, drugs	12	0.0467
## 06 - Fatigue	76	0.2961
## 07 - Medical or physical disability	65	0.2532
## 08 - Hand Held Device	2600	10.1289
## 99 - Other	47	0.1831



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

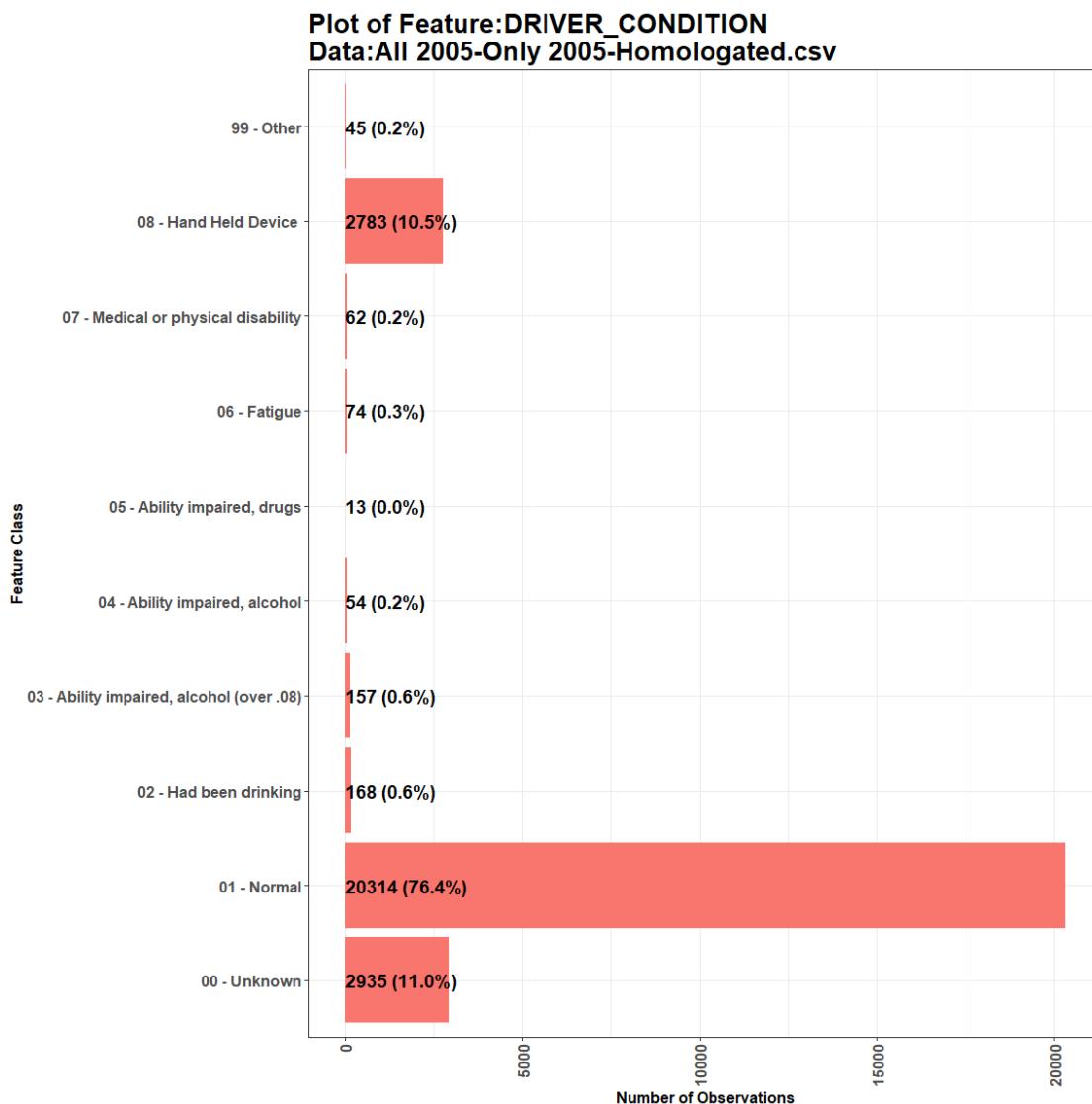
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

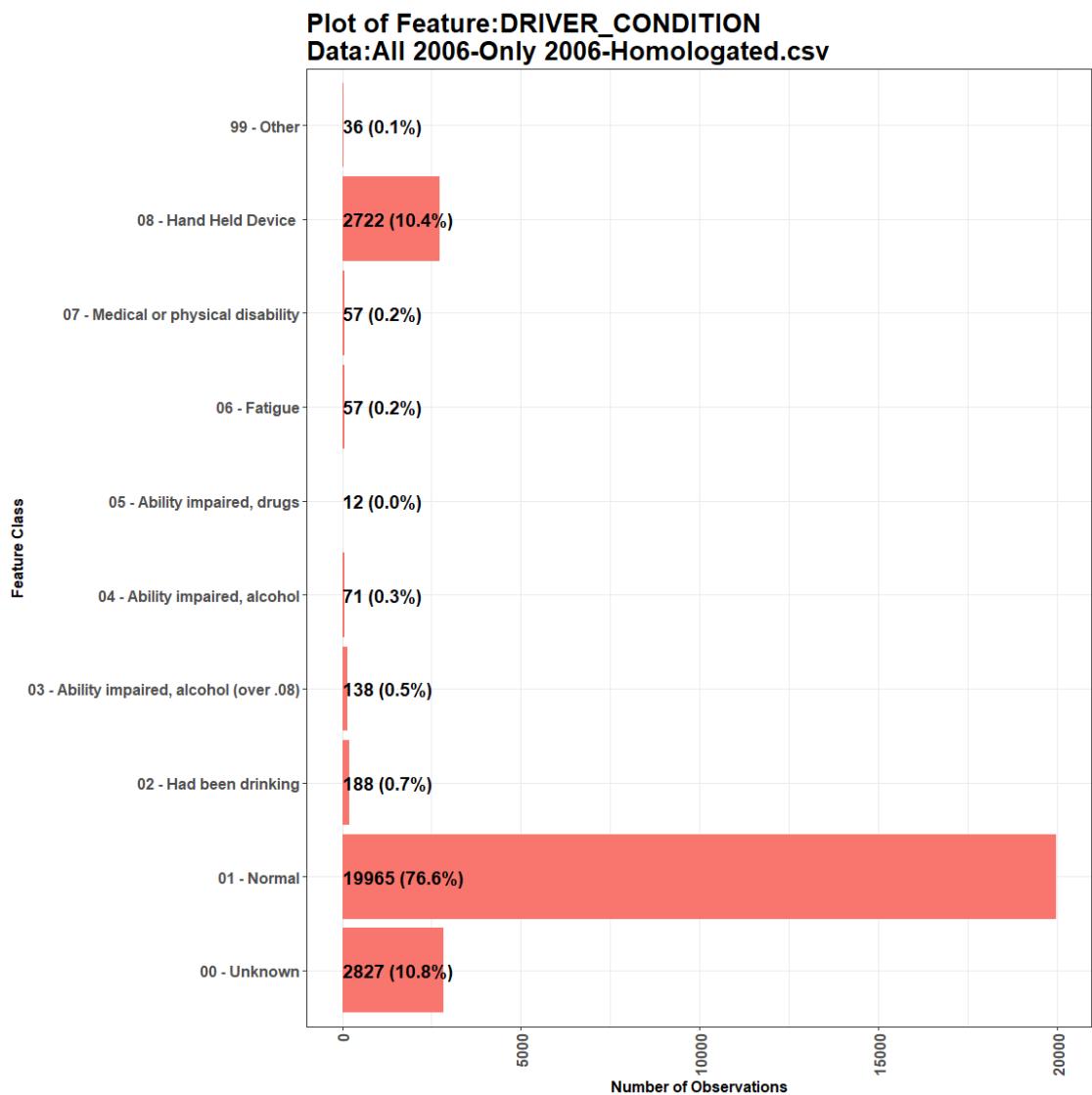
## -----
```

## 00 - Unknown	2935	11.0318
## 01 - Normal	20314	76.3541
## 02 - Had been drinking	168	0.6315
## 03 - Ability impaired, alcohol (over .08)	157	0.5901
## 04 - Ability impaired, alcohol	54	0.2030
## 05 - Ability impaired, drugs	13	0.0489
## 06 - Fatigue	74	0.2781
## 07 - Medical or physical disability	62	0.2330
## 08 - Hand Held Device	2783	10.4604
## 99 - Other	45	0.1691



```
##
## -----
## CHECKING FEATURE:DRIVER_CONDITION
## DATA:All 2006-Only 2006-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF DRIVER_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2827 10.8426  
## 01 - Normal 19965 76.5735  
## 02 - Had been drinking 188 0.7211  
## 03 - Ability impaired, alcohol (over .08) 138 0.5293  
## 04 - Ability impaired, alcohol 71 0.2723  
## 05 - Ability impaired, drugs 12 0.0460  
## 06 - Fatigue 57 0.2186  
## 07 - Medical or physical disability 57 0.2186  
## 08 - Hand Held Device 2722 10.4399  
## 99 - Other 36 0.1381
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

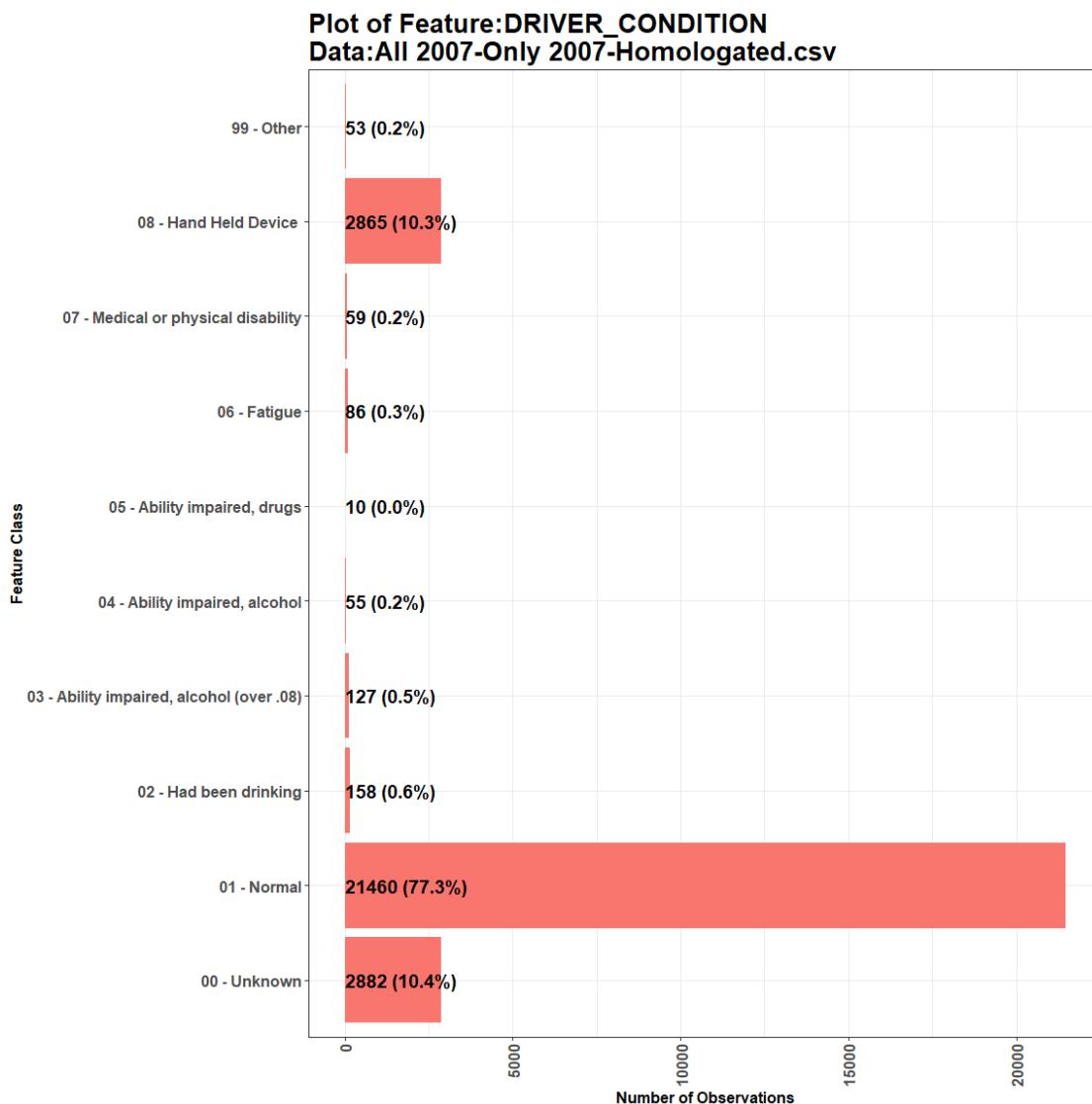
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

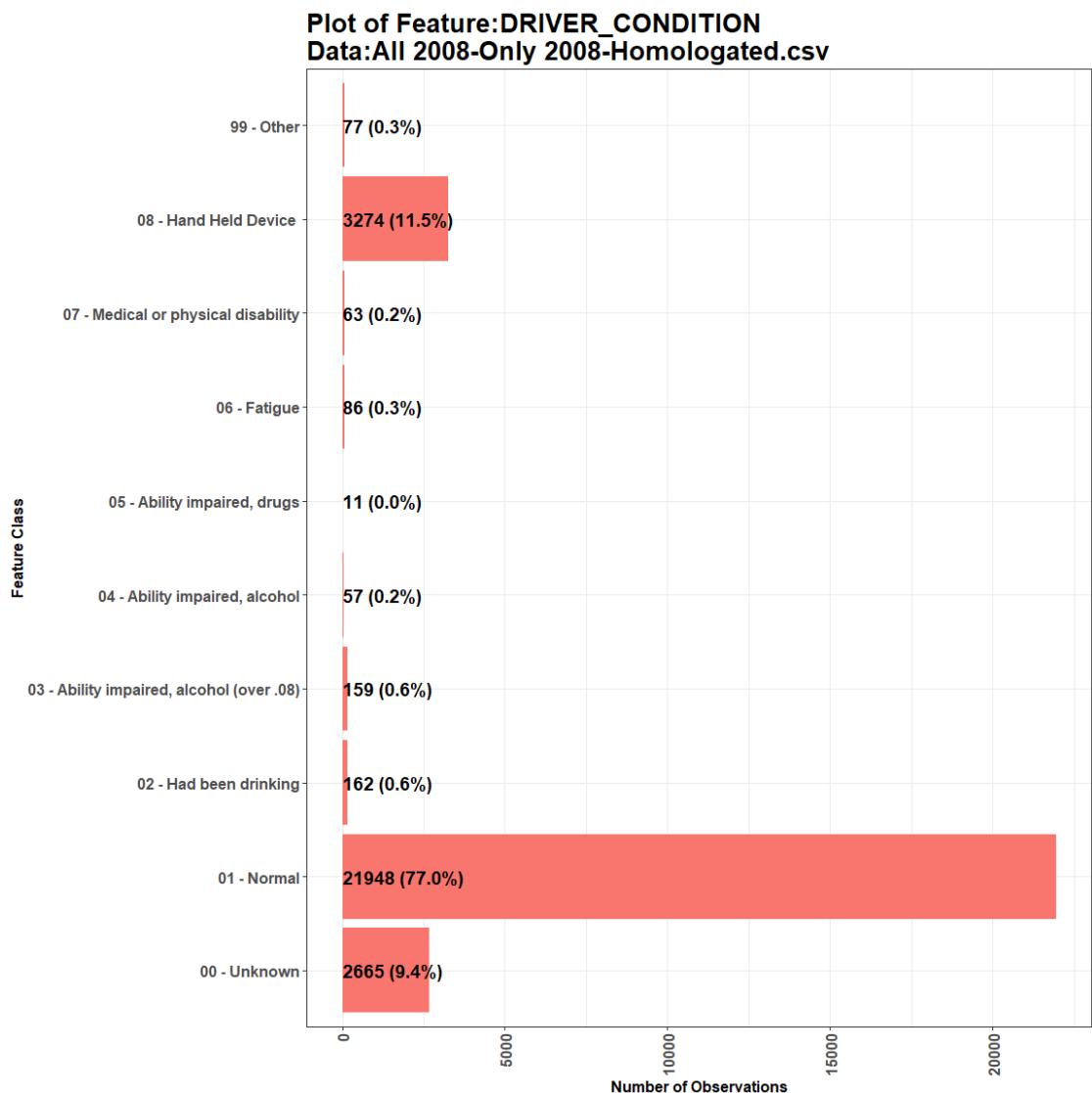
## -----
```

## 00 - Unknown	2882	10.3837
## 01 - Normal	21460	77.3194
## 02 - Had been drinking	158	0.5693
## 03 - Ability impaired, alcohol (over .08)	127	0.4576
## 04 - Ability impaired, alcohol	55	0.1982
## 05 - Ability impaired, drugs	10	0.0360
## 06 - Fatigue	86	0.3099
## 07 - Medical or physical disability	59	0.2126
## 08 - Hand Held Device	2865	10.3225
## 99 - Other	53	0.1910



```
##
## -----
## CHECKING FEATURE:DRIVER_CONDITION
## DATA:All 2008-Only 2008-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF DRIVER_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2665 9.3502  
## 01 - Normal 21948 77.0051  
## 02 - Had been drinking 162 0.5684  
## 03 - Ability impaired, alcohol (over .08) 159 0.5579  
## 04 - Ability impaired, alcohol 57 0.2000  
## 05 - Ability impaired, drugs 11 0.0386  
## 06 - Fatigue 86 0.3017  
## 07 - Medical or physical disability 63 0.2210  
## 08 - Hand Held Device 3274 11.4869  
## 99 - Other 77 0.2702
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

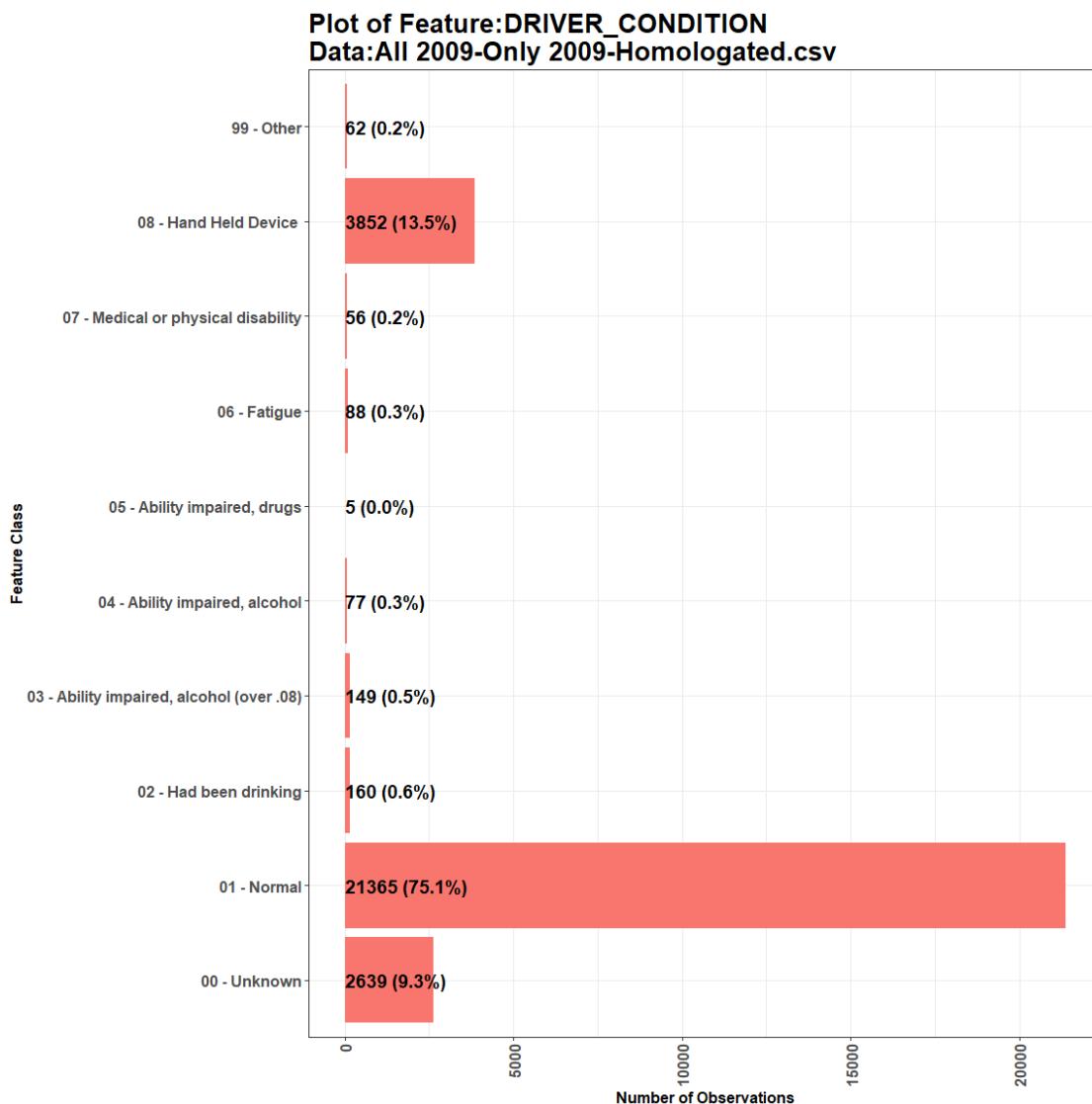
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

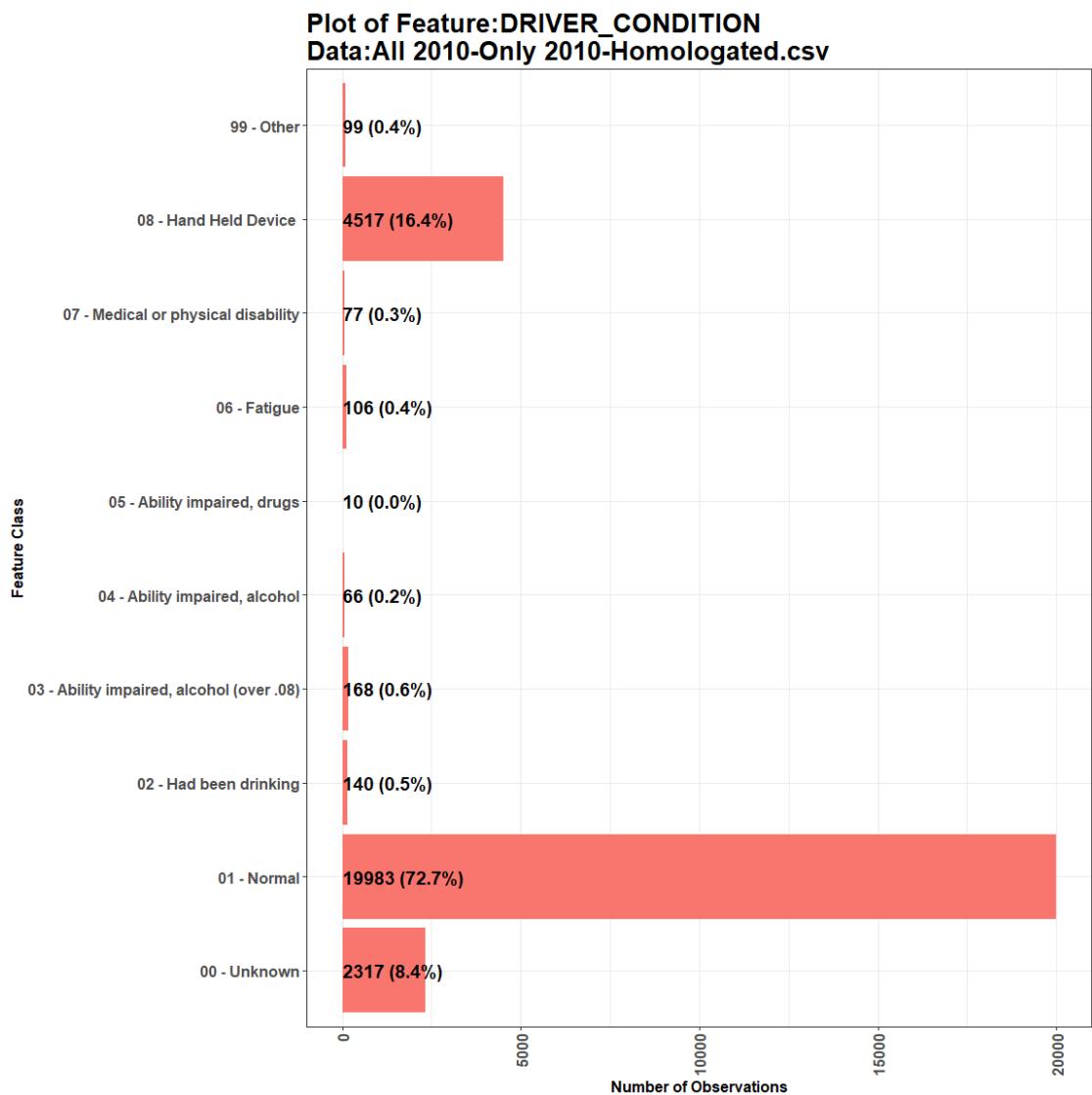
## -----
```

## 00 - Unknown	2639	9.2749
## 01 - Normal	21365	75.0887
## 02 - Had been drinking	160	0.5623
## 03 - Ability impaired, alcohol (over .08)	149	0.5237
## 04 - Ability impaired, alcohol	77	0.2706
## 05 - Ability impaired, drugs	5	0.0176
## 06 - Fatigue	88	0.3093
## 07 - Medical or physical disability	56	0.1968
## 08 - Hand Held Device	3852	13.5381
## 99 - Other	62	0.2179



```
##
## -----
## CHECKING FEATURE:DRIVER_CONDITION
## DATA:All 2010-Only 2010-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF DRIVER_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2317 8.4307  
## 01 - Normal 19983 72.7104  
## 02 - Had been drinking 140 0.5094  
## 03 - Ability impaired, alcohol (over .08) 168 0.6113  
## 04 - Ability impaired, alcohol 66 0.2401  
## 05 - Ability impaired, drugs 10 0.0364  
## 06 - Fatigue 106 0.3857  
## 07 - Medical or physical disability 77 0.2802  
## 08 - Hand Held Device 4517 16.4356  
## 99 - Other 99 0.3602
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

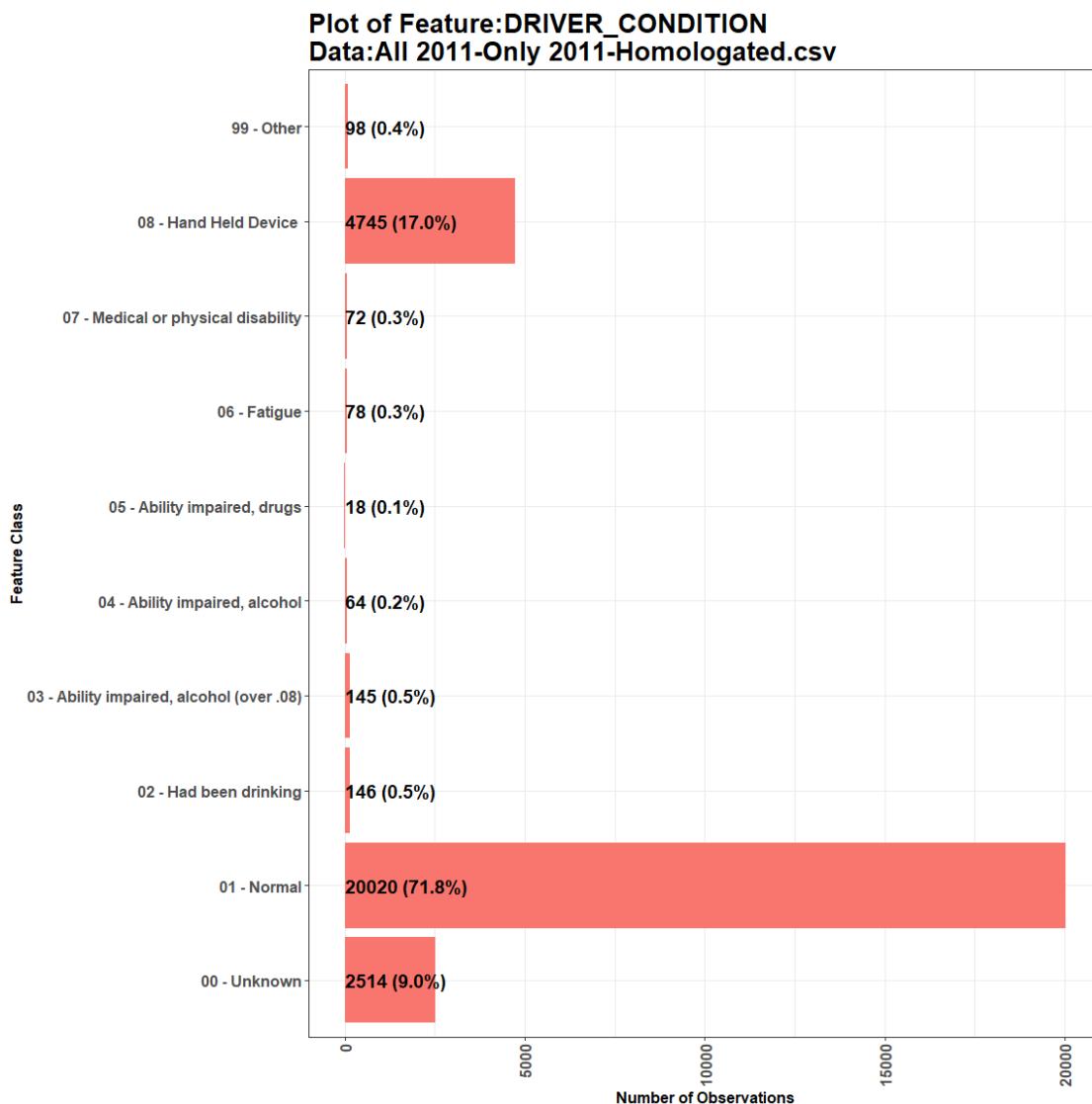
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

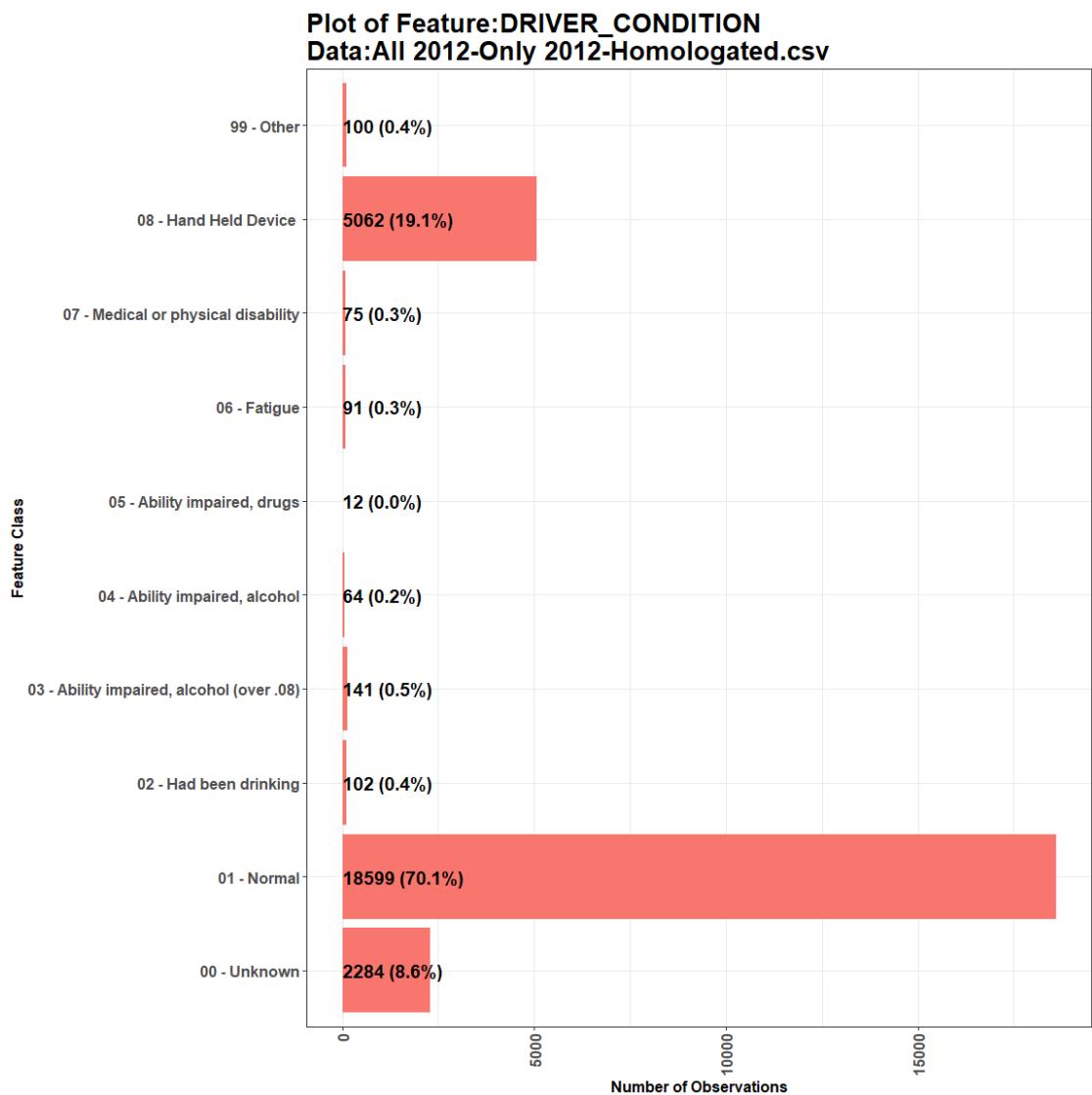
## -----
```

## 00 - Unknown	2514	9.0108
## 01 - Normal	20020	71.7563
## 02 - Had been drinking	146	0.5233
## 03 - Ability impaired, alcohol (over .08)	145	0.5197
## 04 - Ability impaired, alcohol	64	0.2294
## 05 - Ability impaired, drugs	18	0.0645
## 06 - Fatigue	78	0.2796
## 07 - Medical or physical disability	72	0.2581
## 08 - Hand Held Device	4745	17.0072
## 99 - Other	98	0.3513



```
##
## -----
## CHECKING FEATURE:DRIVER_CONDITION
## DATA:All 2012-Only 2012-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF DRIVER_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2284 8.6091  
## 01 - Normal 18599 70.1055  
## 02 - Had been drinking 102 0.3845  
## 03 - Ability impaired, alcohol (over .08) 141 0.5315  
## 04 - Ability impaired, alcohol 64 0.2412  
## 05 - Ability impaired, drugs 12 0.0452  
## 06 - Fatigue 91 0.3430  
## 07 - Medical or physical disability 75 0.2827  
## 08 - Hand Held Device 5062 19.0803  
## 99 - Other 100 0.3769
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

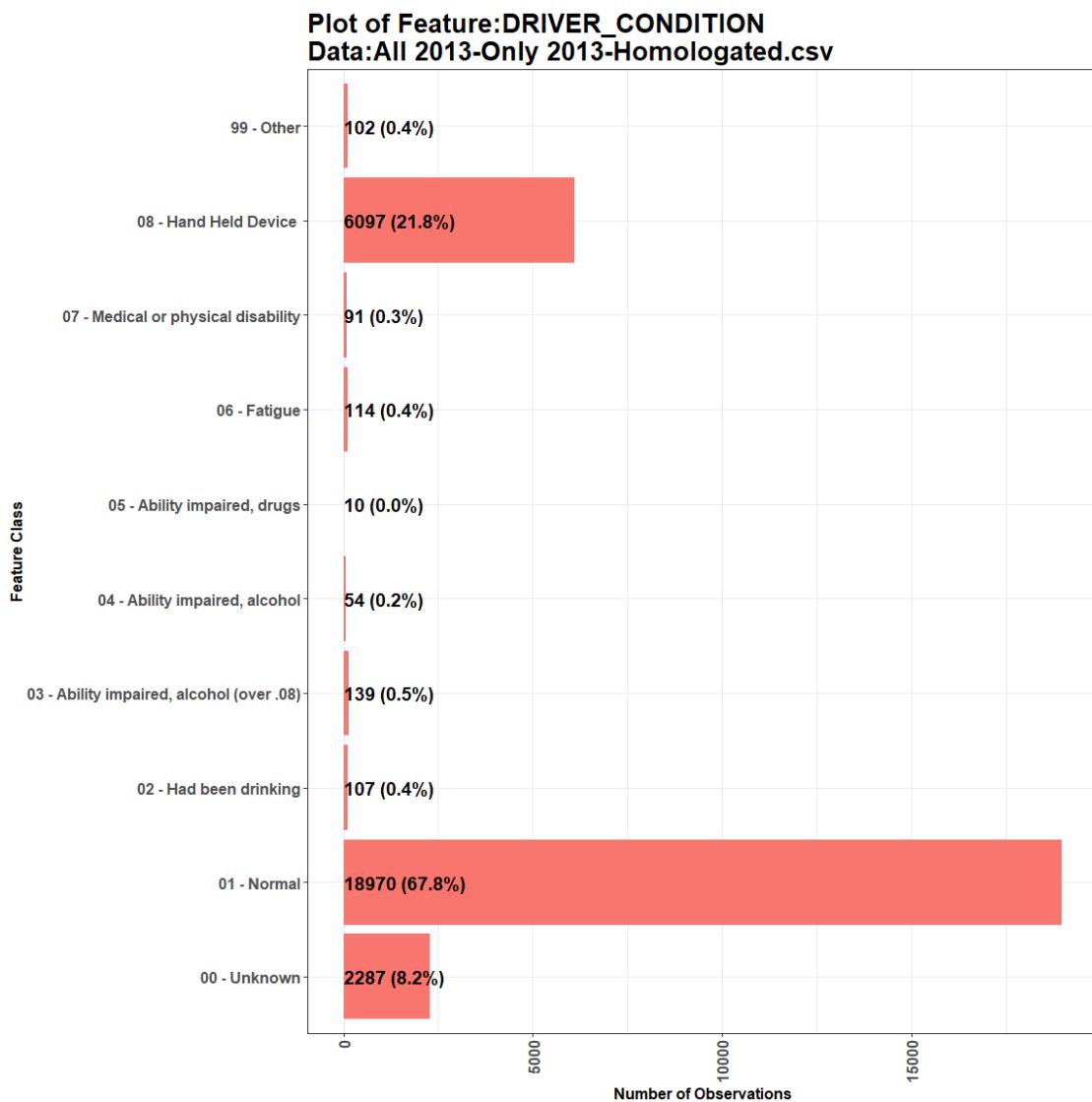
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

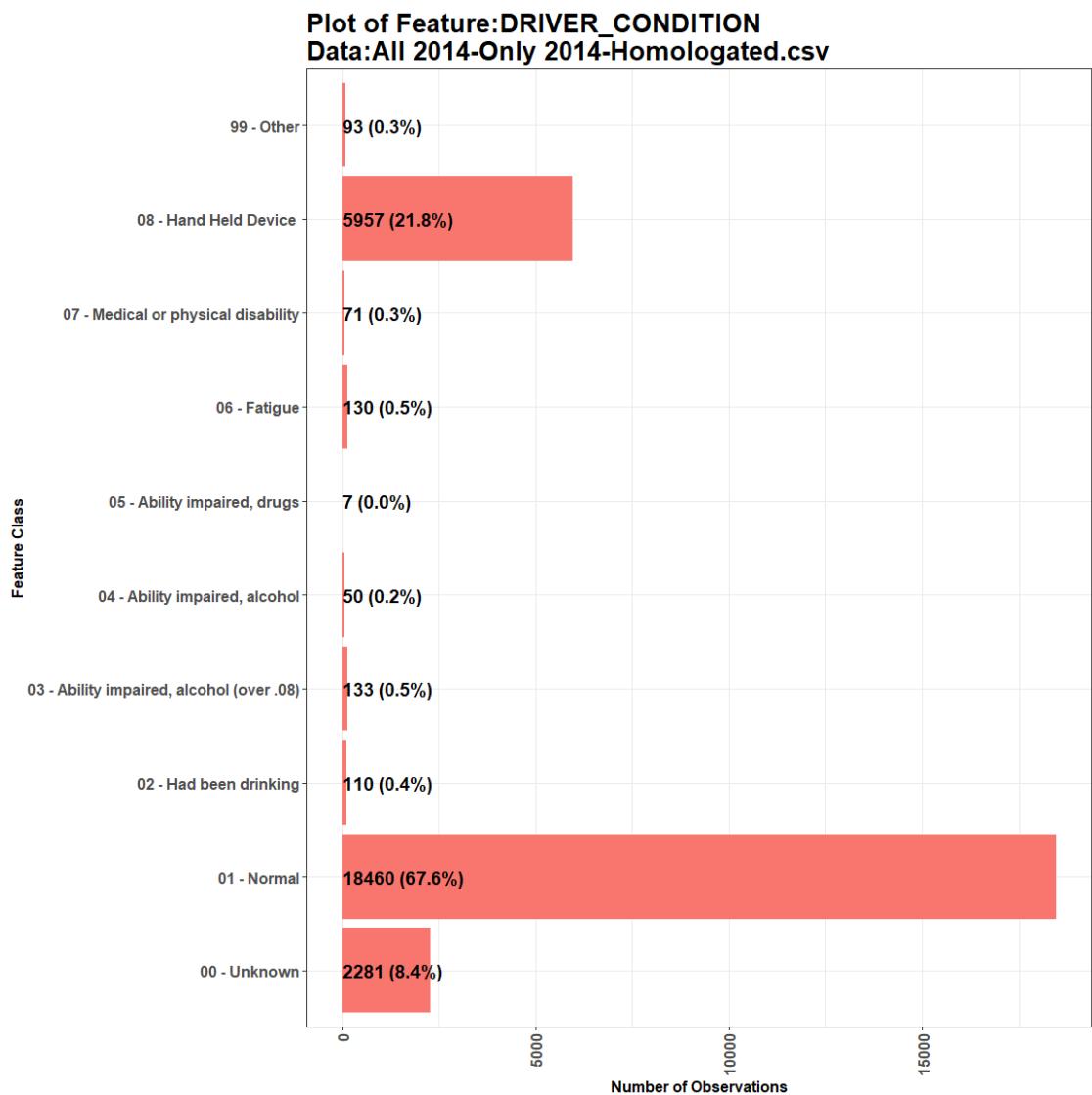
## -----
```

## 00 - Unknown	2287	8.1763
## 01 - Normal	18970	67.8202
## 02 - Had been drinking	107	0.3825
## 03 - Ability impaired, alcohol (over .08)	139	0.4969
## 04 - Ability impaired, alcohol	54	0.1931
## 05 - Ability impaired, drugs	10	0.0358
## 06 - Fatigue	114	0.4076
## 07 - Medical or physical disability	91	0.3253
## 08 - Hand Held Device	6097	21.7976
## 99 - Other	102	0.3647



```
##
## -----
## CHECKING FEATURE:DRIVER_CONDITION
## DATA:All 2014-Only 2014-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF DRIVER_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2281 8.3578  
## 01 - Normal 18460 67.6389  
## 02 - Had been drinking 110 0.4030  
## 03 - Ability impaired, alcohol (over .08) 133 0.4873  
## 04 - Ability impaired, alcohol 50 0.1832  
## 05 - Ability impaired, drugs 7 0.0256  
## 06 - Fatigue 130 0.4763  
## 07 - Medical or physical disability 71 0.2601  
## 08 - Hand Held Device 5957 21.8269  
## 99 - Other 93 0.3408
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

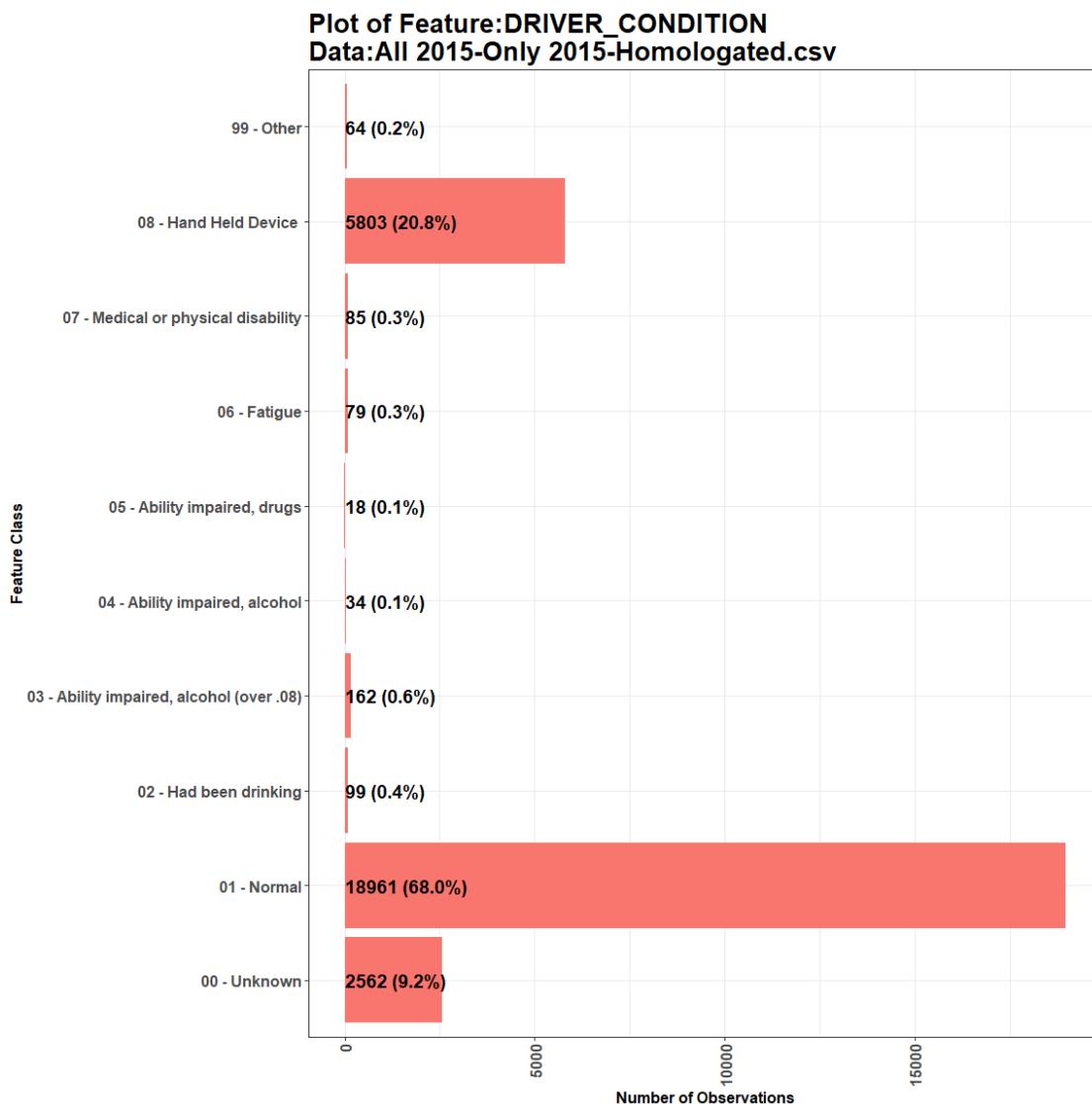
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

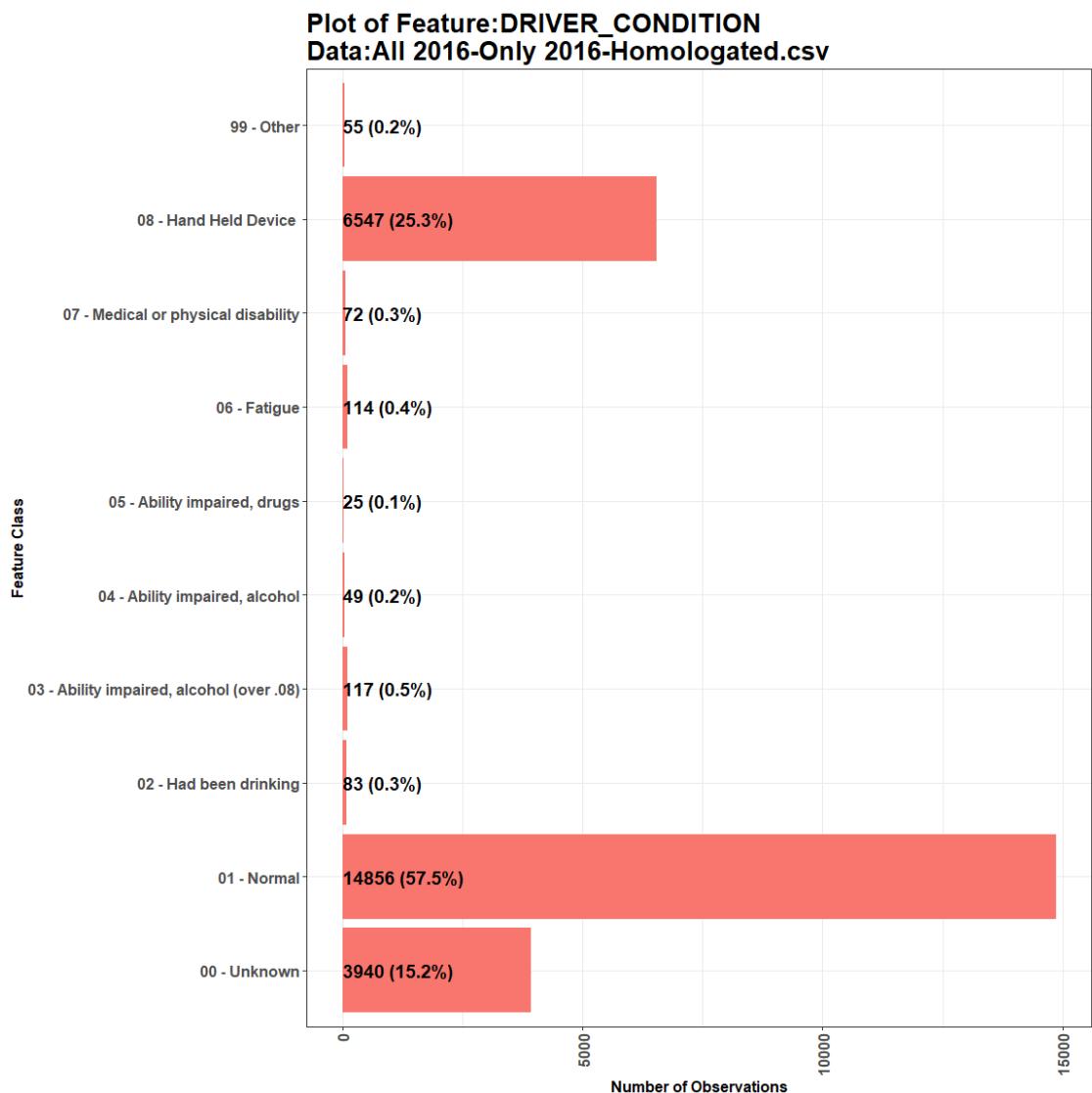
## -----
```

## 00 - Unknown	2562	9.1937
## 01 - Normal	18961	68.0411
## 02 - Had been drinking	99	0.3553
## 03 - Ability impaired, alcohol (over .08)	162	0.5813
## 04 - Ability impaired, alcohol	34	0.1220
## 05 - Ability impaired, drugs	18	0.0646
## 06 - Fatigue	79	0.2835
## 07 - Medical or physical disability	85	0.3050
## 08 - Hand Held Device	5803	20.8239
## 99 - Other	64	0.2297



```
##
## -----
## CHECKING FEATURE:DRIVER_CONDITION
## DATA:All 2016-Only 2016-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF DRIVER_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 3940 15.2371  
## 01 - Normal 14856 57.4522  
## 02 - Had been drinking 83 0.3210  
## 03 - Ability impaired, alcohol (over .08) 117 0.4525  
## 04 - Ability impaired, alcohol 49 0.1895  
## 05 - Ability impaired, drugs 25 0.0967  
## 06 - Fatigue 114 0.4409  
## 07 - Medical or physical disability 72 0.2784  
## 08 - Hand Held Device 6547 25.3191  
## 99 - Other 55 0.2127
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_CONDITION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

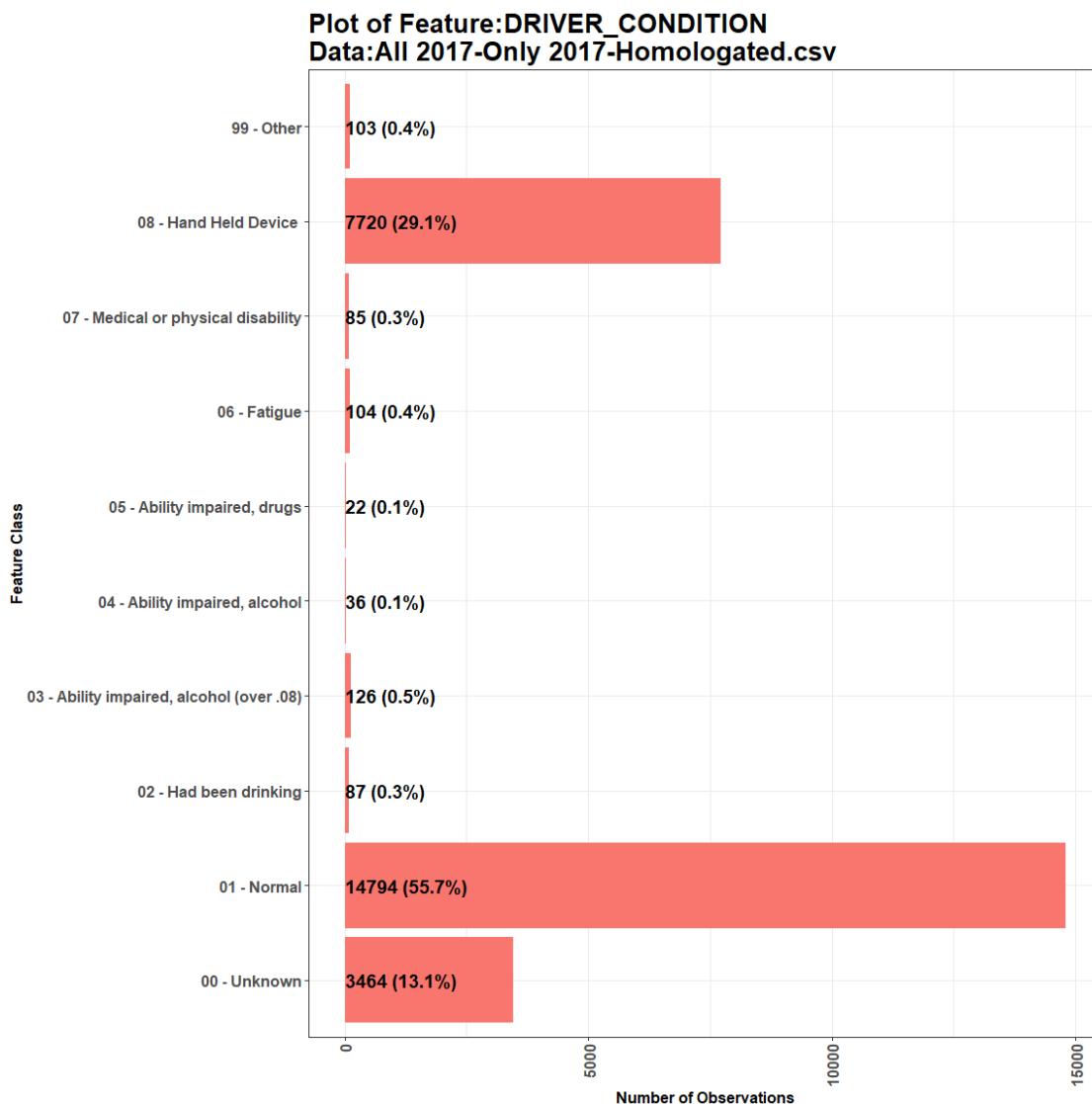
## TOP 100 FEATURES OF DRIVER_CONDITION  

##  

## Feature Value Counter Percentage  

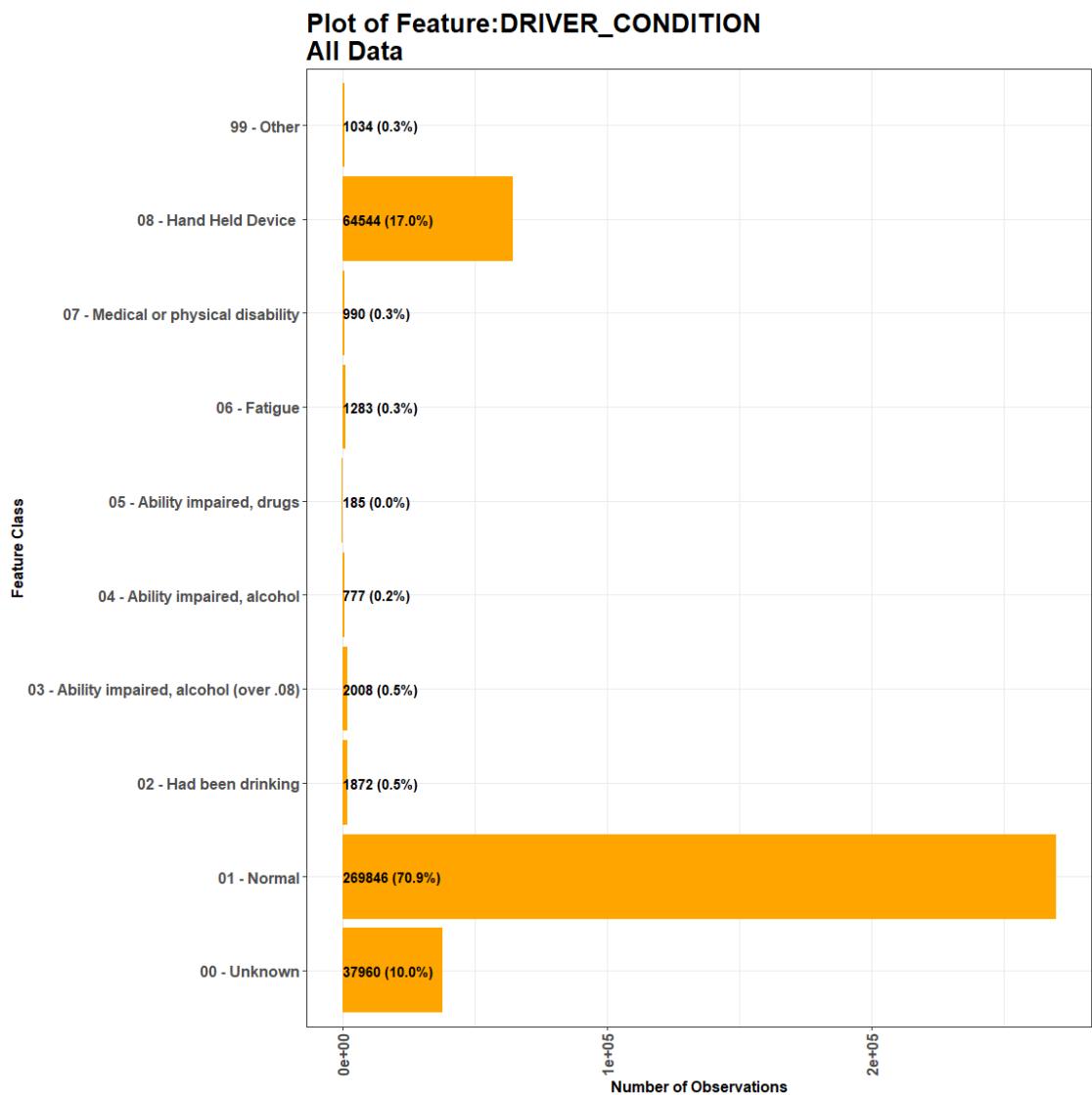
## -----
```

## 00 - Unknown	3464	13.0515
## 01 - Normal	14794	55.7402
## 02 - Had been drinking	87	0.3278
## 03 - Ability impaired, alcohol (over .08)	126	0.4747
## 04 - Ability impaired, alcohol	36	0.1356
## 05 - Ability impaired, drugs	22	0.0829
## 06 - Fatigue	104	0.3918
## 07 - Medical or physical disability	85	0.3203
## 08 - Hand Held Device	7720	29.0871
## 99 - Other	103	0.3881



```
##
## =====
## FINAL INFO CHECKING FEATURE:DRIVER_CONDITION
## ALL DATA...
```

```
## =====
## 
## Number of Blank Values:0
## 
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv          26605
##                                         25669
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv          27755
##                                         26073
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv          28453
##                                         28502
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv          27900
##                                         27483
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv          27971
##                                         26530
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv          27867
##                                         27292
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv          26541
##                                         25858
## 
## 
## Summary as Factor Feature:
## Number of Features: 10
```



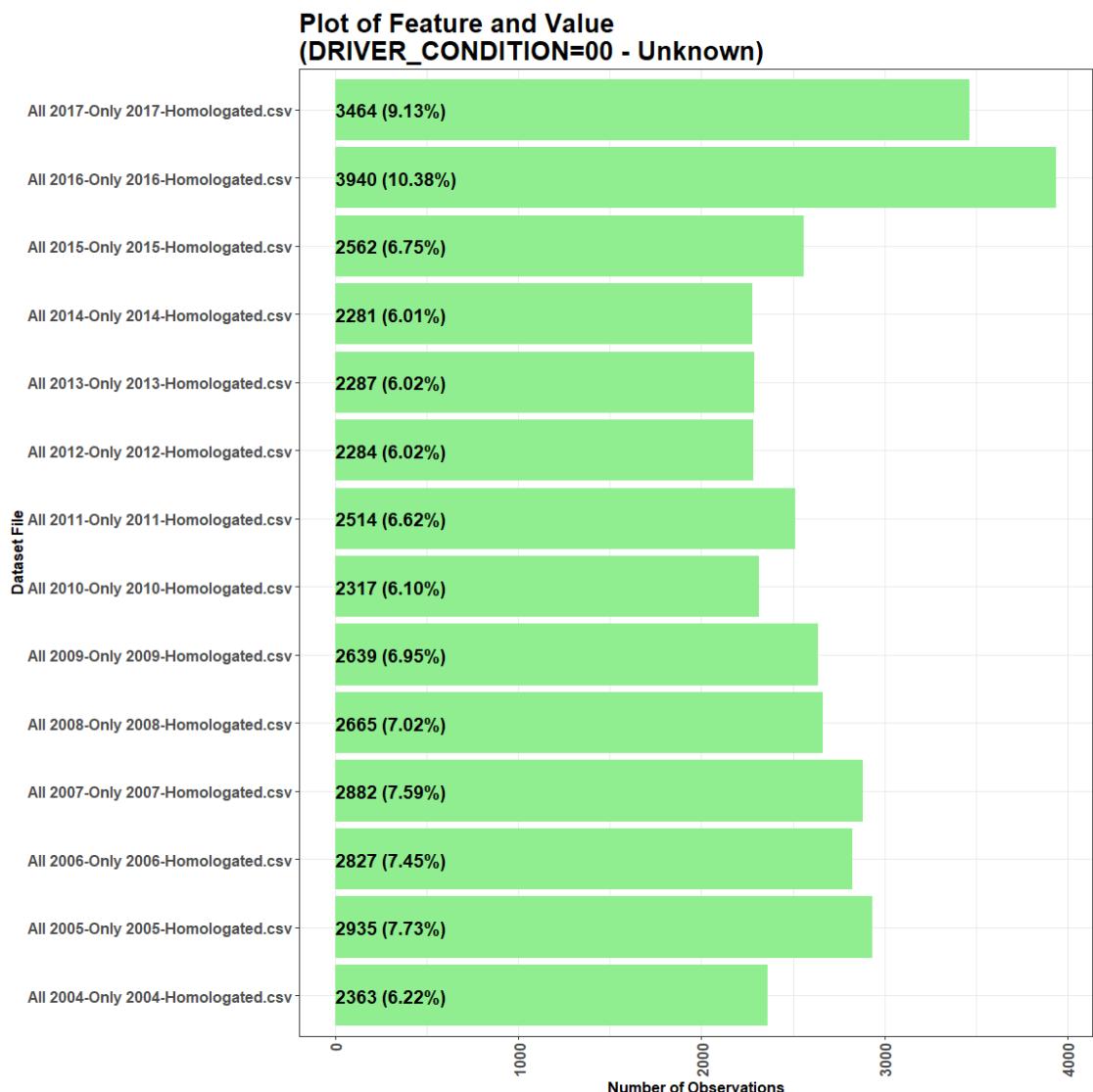
```
## [1] "TOP 100 FEATURES COUNTERS OF:DRIVER_CONDITION"
```

Feature Value	Counter	Percentage
00 - Unknown	37960	9.9764
01 - Normal	269846	70.9190
02 - Had been drinking	1872	0.4920
03 - Ability impaired, alcohol (over .08)	2008	0.5277
04 - Ability impaired, alcohol	777	0.2042
05 - Ability impaired, drugs	185	0.0486
06 - Fatigue	1283	0.3372
07 - Medical or physical disability	990	0.2602
08 - Hand Held Device	64544	16.9630

99 - Other	1034	0.2717
------------	------	--------

3.1 DRIVER_CONDITION = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_CONDITION=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 2363 2935  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 2827 2882  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 2665 2639  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 2317 2514  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 2284 2287  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 2281 2562  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 3940 3464
```



DATASET FILE	COUNTER OF (DRIVER_CONDITION=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	2363	6.225	
All 2005-Only 2005-Homologated.csv	2935	7.732	
All 2006-Only 2006-Homologated.csv	2827	7.447	
All 2007-Only 2007-Homologated.csv	2882	7.592	
All 2008-Only 2008-Homologated.csv	2665	7.021	

All 2009-Only 2009-Homologated.csv	2639	6.952
All 2010-Only 2010-Homologated.csv	2317	6.104
All 2011-Only 2011-Homologated.csv	2514	6.623
All 2012-Only 2012-Homologated.csv	2284	6.017
All 2013-Only 2013-Homologated.csv	2287	6.025
All 2014-Only 2014-Homologated.csv	2281	6.009
All 2015-Only 2015-Homologated.csv	2562	6.749
All 2016-Only 2016-Homologated.csv	3940	10.379
All 2017-Only 2017-Homologated.csv	3464	9.125

3.2 DRIVER_CONDITION = “08 - Hand Held Device”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_CONDITION=08 - Hand Held Device)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (DRIVER_CONDITION=08 - Hand Held Device) Percentage —

4. Driver Age (DRIVER_AGE)

```
##  
## -----  
## CHECKING FEATURE:DRIVER_AGE  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:1215  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median     Mean 3rd Qu.      Max.  
##      0.0    26.0   39.0    38.7    50.0   100.0  
##  
## Summary as Factor Feature:
```

```

## Number of Features: 92
## TOP 100 FEATURES OF DRIVER_AGE
## Feature Value Counter Percentage
## -----
## 0           1215   4.7333
## 5            1     0.0039
## 7            2     0.0078
## 8            2     0.0078
## 9            2     0.0078
## 10           1     0.0039
## 11           5     0.0195
## 12          12     0.0467
## 13          12     0.0467
## 14          15     0.0584
## 15          22     0.0857
## 16          39     0.1519
## 17          325    1.2661
## 18          535    2.0842
## 19          569    2.2167
## 20          553    2.1543
## 21          590    2.2985
## 22          568    2.2128
## 23          512    1.9946
## 24          521    2.0297
## 25          513    1.9985
## 26          499    1.9440
## 27          461    1.7959
## 28          478    1.8622
## 29          519    2.0219
## 30          512    1.9946
## 31          462    1.7998
## 32          529    2.0609
## 33          526    2.0492
## 34          555    2.1621
## 35          520    2.0258
## 36          568    2.2128
## 37          516    2.0102
## 38          573    2.2323
## 39          631    2.4582
## 40          696    2.7114
## 41          632    2.4621
## 42          601    2.3413
## 43          583    2.2712
## 44          597    2.3258
## 45          554    2.1582

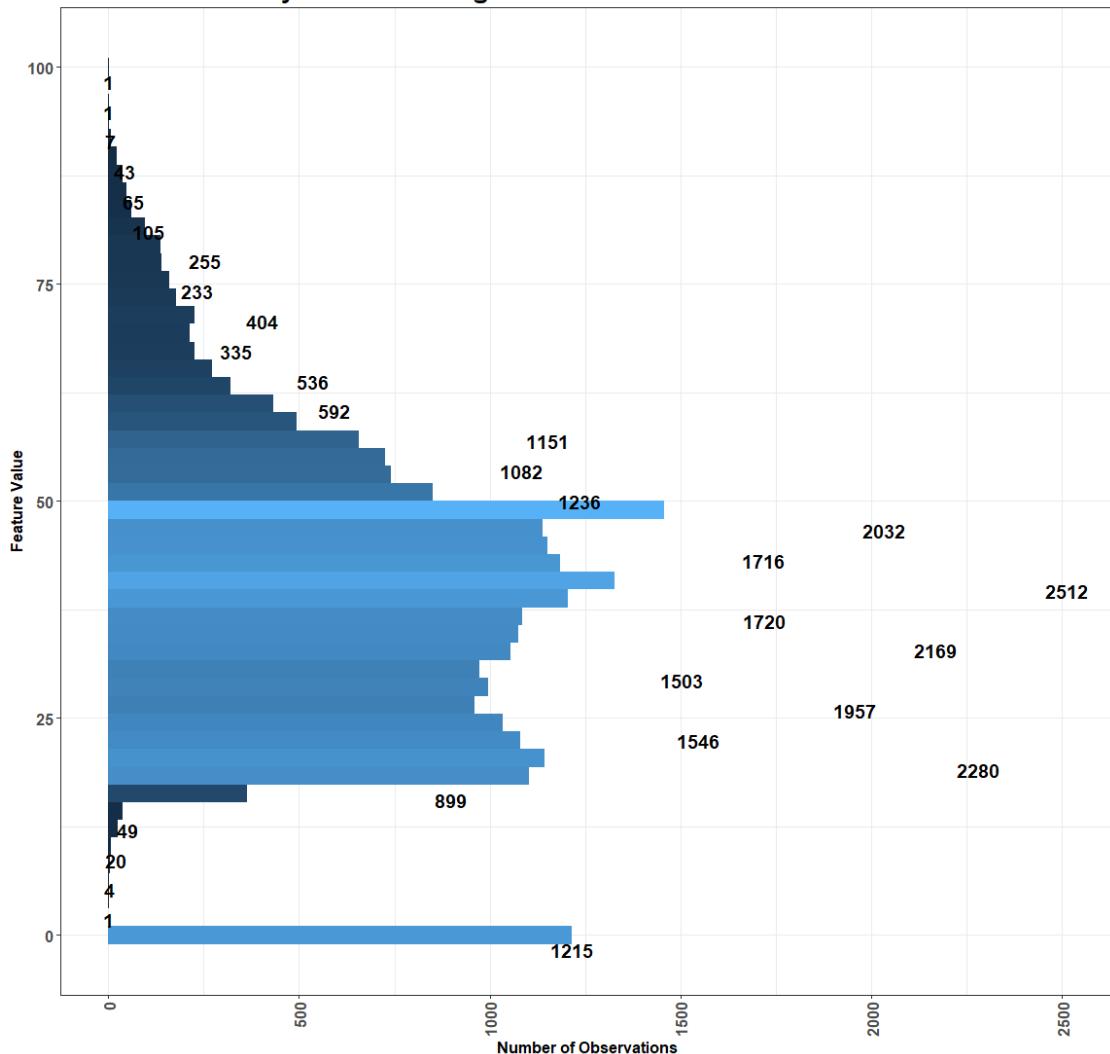
```

## 46	565	2.2011
## 47	574	2.2362
## 48	529	2.0609
## 49	518	2.0180
## 50	411	1.6012
## 51	437	1.7024
## 52	414	1.6128
## 53	385	1.4999
## 54	356	1.3869
## 55	341	1.3285
## 56	385	1.4999
## 57	357	1.3908
## 58	301	1.1726
## 59	251	0.9778
## 60	242	0.9428
## 61	234	0.9116
## 62	199	0.7753
## 63	159	0.6194
## 64	161	0.6272
## 65	144	0.5610
## 66	127	0.4948
## 67	104	0.4052
## 68	122	0.4753
## 69	110	0.4285
## 70	103	0.4013
## 71	102	0.3974
## 72	124	0.4831
## 73	100	0.3896
## 74	78	0.3039
## 75	90	0.3506
## 76	69	0.2688
## 77	74	0.2883
## 78	66	0.2571
## 79	74	0.2883
## 80	62	0.2415
## 81	53	0.2065
## 82	44	0.1714
## 83	25	0.0974
## 84	36	0.1402
## 85	32	0.1247
## 86	16	0.0623
## 87	17	0.0662
## 88	20	0.0779
## 89	11	0.0429
## 90	11	0.0429
## 91	1	0.0039
## 92	5	0.0195
## 93	1	0.0039

```
## 94           1    0.0039
## 96           1    0.0039
## 100          1    0.0039

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

Plot of Feature:DRIVER_AGE
Data:All 2004-Only 2004-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1376
## Number of Negative Values:0
##
## Summary as Numeric Feature:
```

```

##      Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##      0.0    26.0   39.0   38.7   50.0   103.0
##
## Summary as Factor Feature:
##
## Number of Features: 90
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value   Counter Percentage
## -----
## 0              1376    5.1720
## 6                1    0.0038
## 8                4    0.0150
## 9                3    0.0113
## 10               5    0.0188
## 11               7    0.0263
## 12               5    0.0188
## 13               2    0.0075
## 14              10    0.0376
## 15              20    0.0752
## 16              34    0.1278
## 17              282   1.0600
## 18              517   1.9432
## 19              564   2.1199
## 20              597   2.2439
## 21              562   2.1124
## 22              579   2.1763
## 23              564   2.1199
## 24              555   2.0861
## 25              541   2.0335
## 26              541   2.0335
## 27              523   1.9658
## 28              528   1.9846
## 29              495   1.8606
## 30              504   1.8944
## 31              539   2.0259
## 32              513   1.9282
## 33              486   1.8267
## 34              525   1.9733
## 35              596   2.2402
## 36              542   2.0372
## 37              629   2.3642
## 38              565   2.1237
## 39              540   2.0297
## 40              644   2.4206
## 41              656   2.4657
## 42              654   2.4582

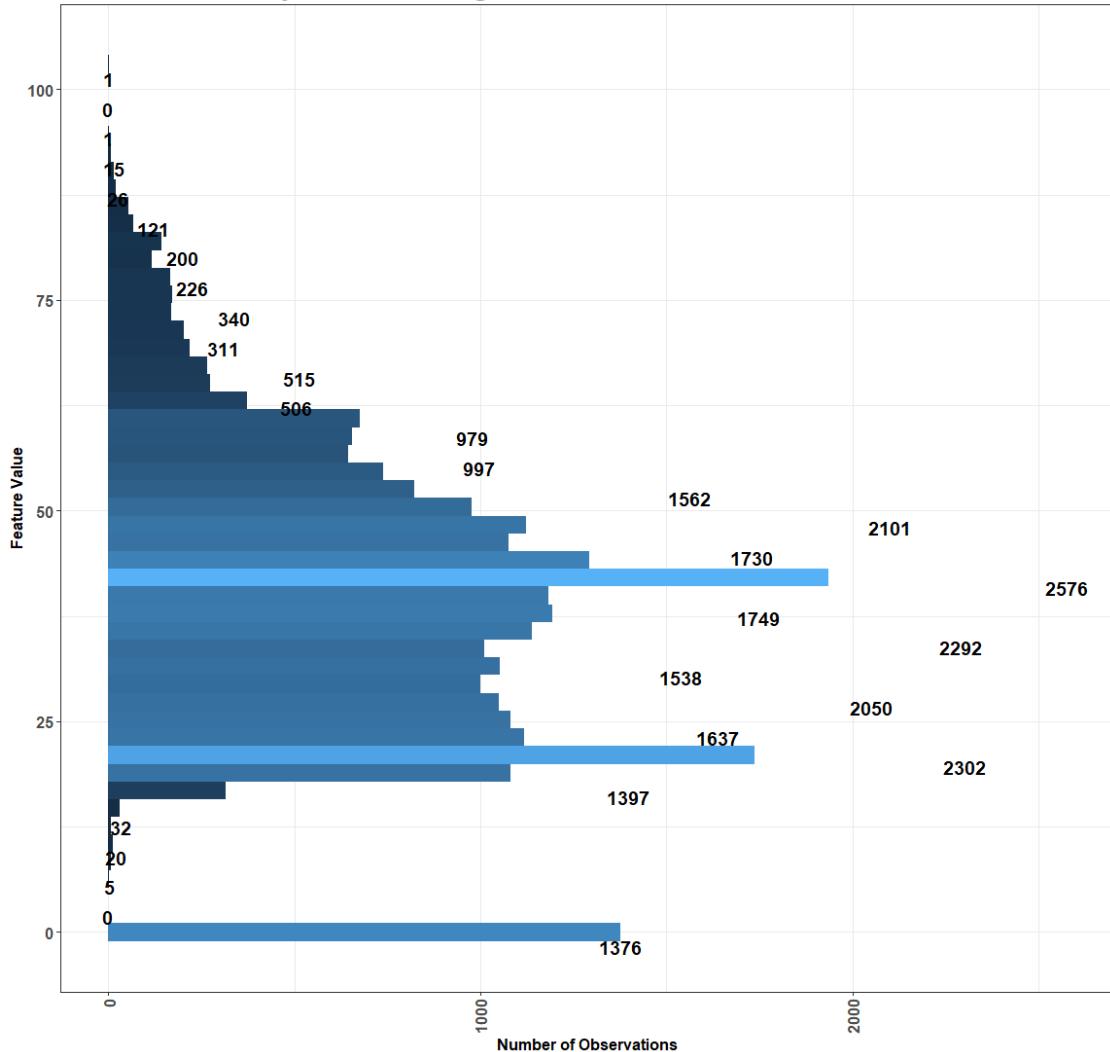
```

## 43	625	2.3492
## 44	641	2.4093
## 45	653	2.4544
## 46	567	2.1312
## 47	510	1.9169
## 48	554	2.0823
## 49	570	2.1425
## 50	525	1.9733
## 51	452	1.6989
## 52	440	1.6538
## 53	382	1.4358
## 54	371	1.3945
## 55	369	1.3870
## 56	324	1.2178
## 57	320	1.2028
## 58	353	1.3268
## 59	303	1.1389
## 60	235	0.8833
## 61	205	0.7705
## 62	236	0.8871
## 63	211	0.7931
## 64	161	0.6051
## 65	134	0.5037
## 66	139	0.5225
## 67	139	0.5225
## 68	126	0.4736
## 69	111	0.4172
## 70	108	0.4059
## 71	98	0.3684
## 72	105	0.3947
## 73	87	0.3270
## 74	82	0.3082
## 75	83	0.3120
## 76	88	0.3308
## 77	88	0.3308
## 78	78	0.2932
## 79	60	0.2255
## 80	56	0.2105
## 81	51	0.1917
## 82	49	0.1842
## 83	44	0.1654
## 84	31	0.1165
## 85	37	0.1391
## 86	33	0.1240
## 87	20	0.0752
## 88	8	0.0301
## 89	13	0.0489
## 90	5	0.0188

```
## 91           9   0.0338
## 92           2   0.0075
## 93           4   0.0150
## 95           1   0.0038
## 103          1   0.0038

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

Plot of Feature:DRIVER_AGE
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1359
## Number of Negative Values:0
```

```

##  

## Summary as Numeric Feature:  

##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.  

##   0.0    26.0   39.0    38.7   50.0    97.0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 92  

##  

## TOP 100 FEATURES OF DRIVER_AGE  

##  

## Feature Value   Counter Percentage  

## -----  

## 0              1359    5.2123  

## 2              1        0.0038  

## 7              2        0.0077  

## 8              2        0.0077  

## 9              4        0.0153  

## 10             3        0.0115  

## 11             2        0.0077  

## 12             12       0.0460  

## 13             9        0.0345  

## 14             8        0.0307  

## 15             12       0.0460  

## 16             36       0.1381  

## 17             327      1.2542  

## 18             541      2.0749  

## 19             550      2.1095  

## 20             651      2.4968  

## 21             597      2.2897  

## 22             540      2.0711  

## 23             563      2.1593  

## 24             553      2.1210  

## 25             502      1.9254  

## 26             512      1.9637  

## 27             519      1.9906  

## 28             490      1.8793  

## 29             471      1.8065  

## 30             466      1.7873  

## 31             472      1.8103  

## 32             471      1.8065  

## 33             474      1.8180  

## 34             484      1.8563  

## 35             502      1.9254  

## 36             563      2.1593  

## 37             533      2.0443  

## 38             543      2.0826  

## 39             589      2.2590

```

## 40	529	2.0289
## 41	611	2.3434
## 42	685	2.6272
## 43	646	2.4777
## 44	602	2.3089
## 45	597	2.2897
## 46	570	2.1862
## 47	553	2.1210
## 48	535	2.0519
## 49	509	1.9522
## 50	513	1.9676
## 51	443	1.6991
## 52	453	1.7374
## 53	450	1.7259
## 54	398	1.5265
## 55	383	1.4690
## 56	343	1.3155
## 57	325	1.2465
## 58	326	1.2503
## 59	311	1.1928
## 60	256	0.9819
## 61	230	0.8821
## 62	218	0.8361
## 63	183	0.7019
## 64	197	0.7556
## 65	178	0.6827
## 66	130	0.4986
## 67	132	0.5063
## 68	92	0.3529
## 69	99	0.3797
## 70	114	0.4372
## 71	102	0.3912
## 72	93	0.3567
## 73	88	0.3375
## 74	84	0.3222
## 75	92	0.3529
## 76	69	0.2646
## 77	78	0.2992
## 78	72	0.2761
## 79	63	0.2416
## 80	52	0.1994
## 81	57	0.2186
## 82	46	0.1764
## 83	44	0.1688
## 84	25	0.0959
## 85	31	0.1189
## 86	37	0.1419
## 87	18	0.0690

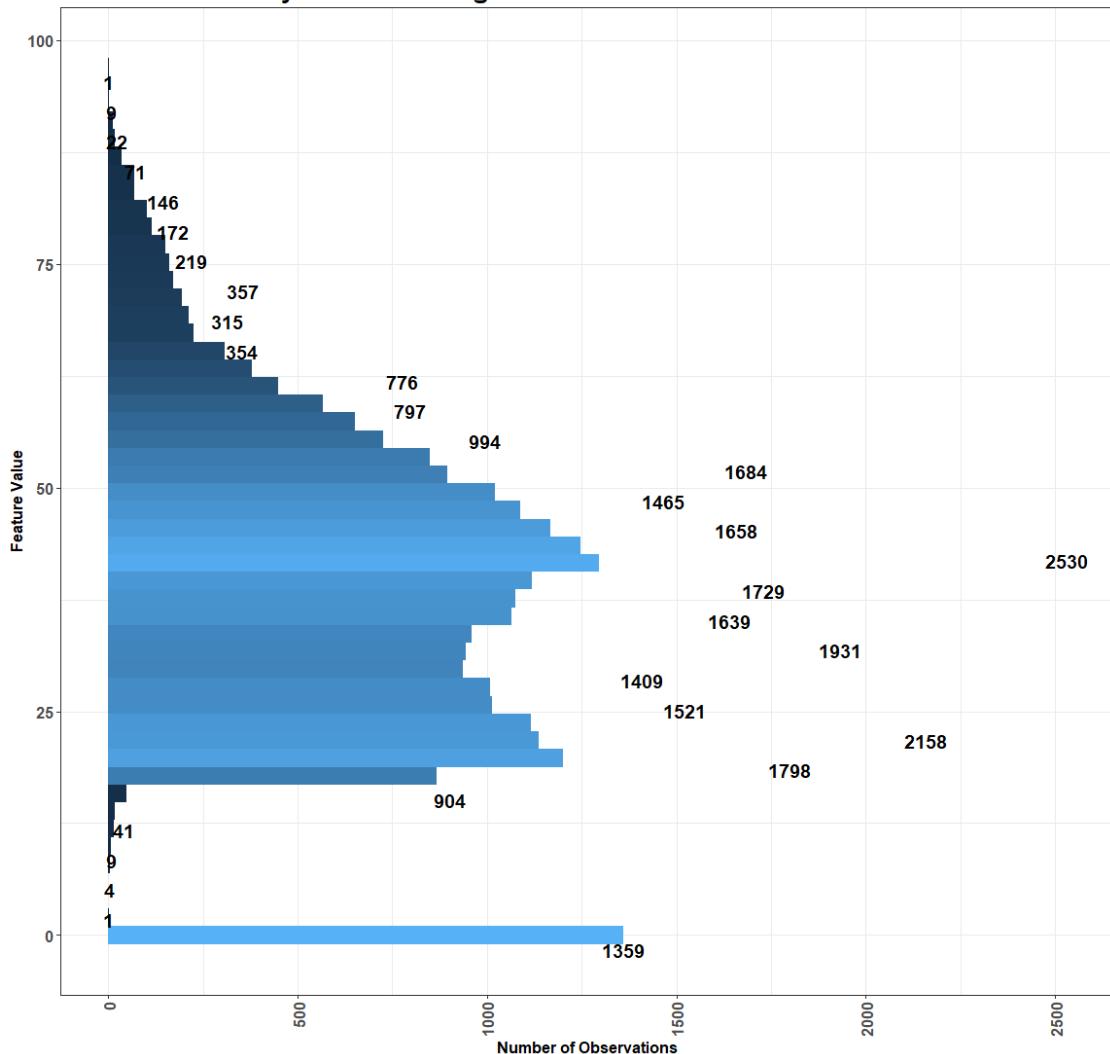
```

## 88           16    0.0614
## 89           10    0.0384
## 90            6    0.0230
## 91            6    0.0230
## 92            5    0.0192
## 93            2    0.0077
## 94            1    0.0038
## 95            1    0.0038
## 97            1    0.0038

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

```

Plot of Feature:DRIVER_AGE
Data:All 2006-Only 2006-Homologated.csv



```

##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2007-Only 2007-Homologated.csv...

```

```

## 
## Number of Blank Values:0
## Number of Zero Values:1477
## Number of Negative Values:0
## 
## Summary as Numeric Feature:
##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##   0.0    26.0   39.0   38.8   50.0   97.0
## 
## Summary as Factor Feature:
## 
## Number of Features: 91
## 
## TOP 100 FEATURES OF DRIVER_AGE
## 
## Feature Value Counter Percentage
## -----
## 0           1477    5.3216
## 3             1    0.0036
## 5             2    0.0072
## 6             1    0.0036
## 7             2    0.0072
## 10            2    0.0072
## 11            4    0.0144
## 12            4    0.0144
## 13            5    0.0180
## 14           13    0.0468
## 15           14    0.0504
## 16           39    0.1405
## 17          328    1.1818
## 18          557    2.0068
## 19          629    2.2663
## 20          627    2.2591
## 21          631    2.2735
## 22          593    2.1366
## 23          624    2.2482
## 24          582    2.0969
## 25          569    2.0501
## 26          592    2.1329
## 27          563    2.0285
## 28          537    1.9348
## 29          458    1.6502
## 30          501    1.8051
## 31          498    1.7943
## 32          476    1.7150
## 33          533    1.9204
## 34          489    1.7618
## 35          588    2.1185

```

## 36	561	2.0213
## 37	562	2.0249
## 38	561	2.0213
## 39	600	2.1618
## 40	598	2.1546
## 41	615	2.2158
## 42	595	2.1438
## 43	641	2.3095
## 44	669	2.4104
## 45	657	2.3671
## 46	669	2.4104
## 47	597	2.1510
## 48	580	2.0897
## 49	555	1.9996
## 50	516	1.8591
## 51	476	1.7150
## 52	493	1.7763
## 53	463	1.6682
## 54	394	1.4196
## 55	386	1.3907
## 56	373	1.3439
## 57	363	1.3079
## 58	320	1.1529
## 59	321	1.1565
## 60	320	1.1529
## 61	306	1.1025
## 62	255	0.9188
## 63	202	0.7278
## 64	199	0.7170
## 65	168	0.6053
## 66	158	0.5693
## 67	136	0.4900
## 68	139	0.5008
## 69	86	0.3099
## 70	92	0.3315
## 71	97	0.3495
## 72	103	0.3711
## 73	98	0.3531
## 74	104	0.3747
## 75	87	0.3135
## 76	81	0.2918
## 77	67	0.2414
## 78	73	0.2630
## 79	76	0.2738
## 80	62	0.2234
## 81	45	0.1621
## 82	46	0.1657
## 83	55	0.1982

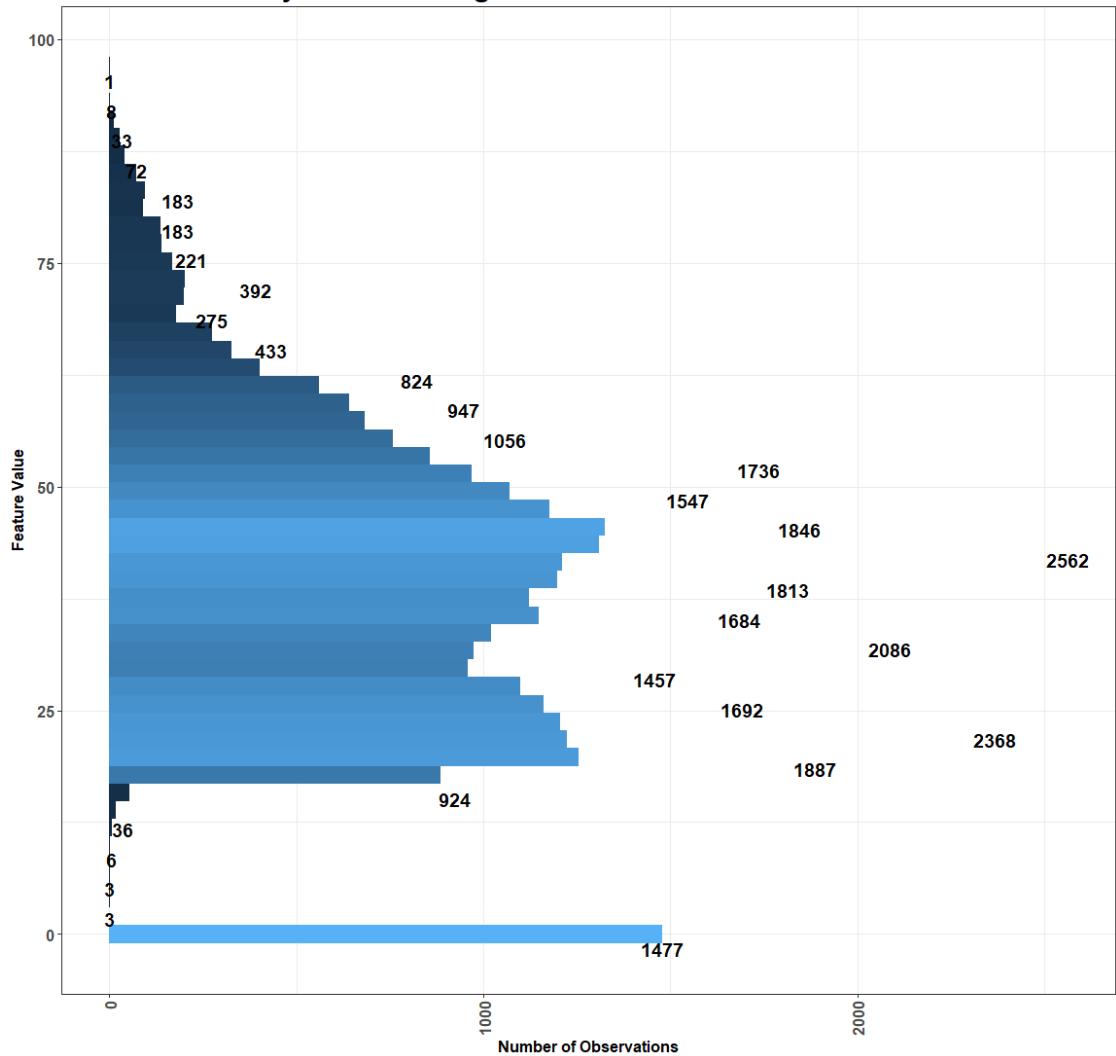
```

## 84           41    0.1477
## 85           41    0.1477
## 86           32    0.1153
## 87           26    0.0937
## 88           14    0.0504
## 89           14    0.0504
## 90           14    0.0504
## 91            5    0.0180
## 92            6    0.0216
## 93            1    0.0036
## 94            1    0.0036
## 97            1    0.0036

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

```

Plot of Feature:DRIVER_AGE
Data:All 2007-Only 2007-Homologated.csv



```

## 
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1560
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##      Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##      0.0    26.0   39.0   38.9   51.0   98.0
##
## Summary as Factor Feature:
##
## Number of Features: 92
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value   Counter   Percentage
## -----
## 0              1560     5.4733
## 7                1     0.0035
## 8                2     0.0070
## 9                2     0.0070
## 10               1     0.0035
## 11               4     0.0140
## 12               4     0.0140
## 13               7     0.0246
## 14               9     0.0316
## 15              14     0.0491
## 16              40     0.1403
## 17              302    1.0596
## 18              535    1.8771
## 19              651    2.2841
## 20              607    2.1297
## 21              634    2.2244
## 22              625    2.1928
## 23              657    2.3051
## 24              648    2.2735
## 25              640    2.2455
## 26              596    2.0911
## 27              520    1.8244
## 28              577    2.0244
## 29              549    1.9262
## 30              504    1.7683
## 31              531    1.8630
## 32              495    1.7367

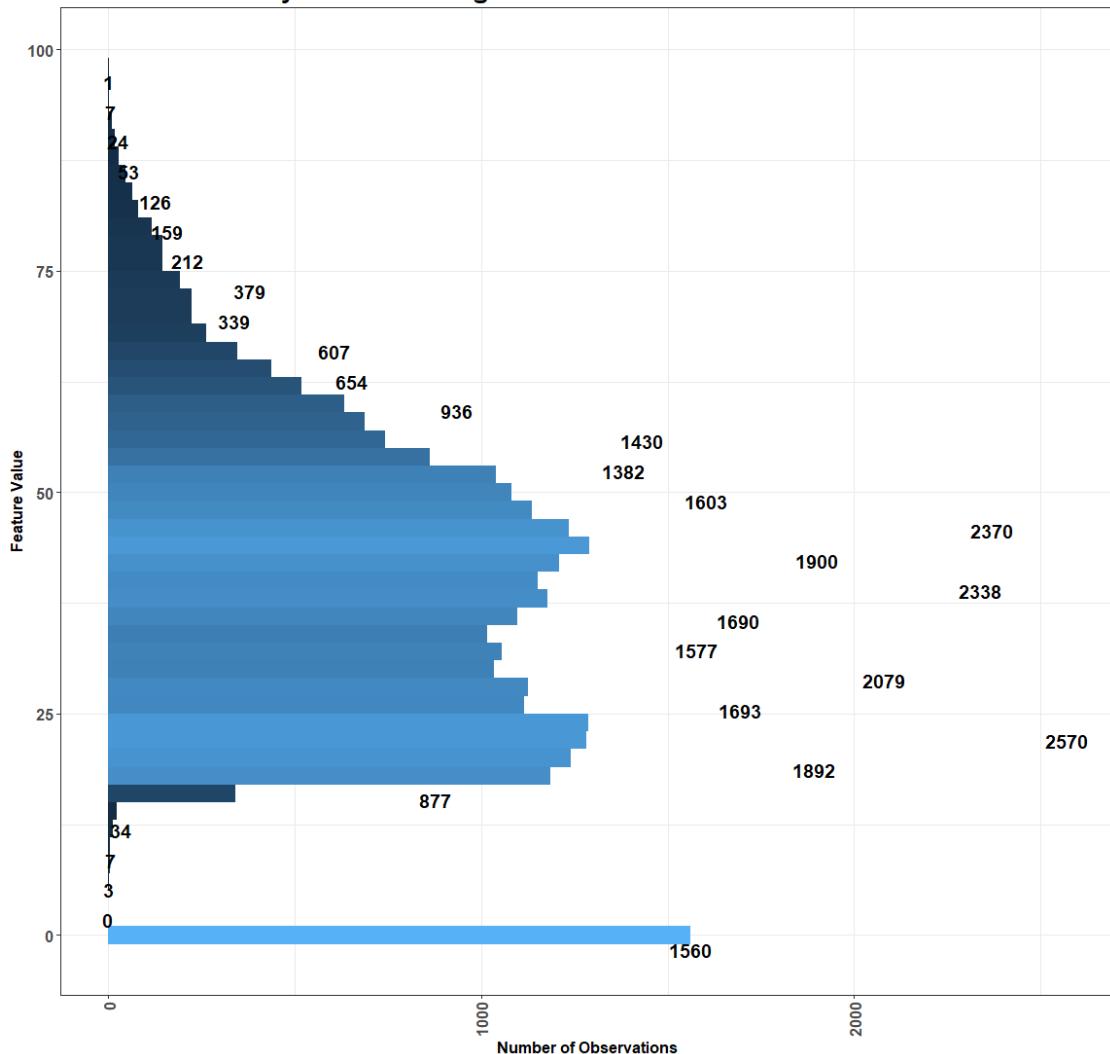
```

## 33	560	1.9648
## 34	516	1.8104
## 35	501	1.7578
## 36	558	1.9578
## 37	538	1.8876
## 38	594	2.0841
## 39	584	2.0490
## 40	566	1.9858
## 41	587	2.0595
## 42	601	2.1086
## 43	609	2.1367
## 44	660	2.3156
## 45	631	2.2139
## 46	650	2.2805
## 47	585	2.0525
## 48	559	1.9613
## 49	576	2.0209
## 50	544	1.9086
## 51	538	1.8876
## 52	521	1.8279
## 53	519	1.8209
## 54	430	1.5087
## 55	433	1.5192
## 56	366	1.2841
## 57	376	1.3192
## 58	368	1.2911
## 59	320	1.1227
## 60	326	1.1438
## 61	308	1.0806
## 62	302	1.0596
## 63	216	0.7578
## 64	224	0.7859
## 65	214	0.7508
## 66	179	0.6280
## 67	166	0.5824
## 68	153	0.5368
## 69	109	0.3824
## 70	123	0.4315
## 71	101	0.3544
## 72	115	0.4035
## 73	108	0.3789
## 74	102	0.3579
## 75	91	0.3193
## 76	78	0.2737
## 77	67	0.2351
## 78	74	0.2596
## 79	71	0.2491
## 80	63	0.2210

```
## 81           54    0.1895
## 82           42    0.1474
## 83           39    0.1368
## 84           37    0.1298
## 85           28    0.0982
## 86           22    0.0772
## 87           25    0.0877
## 88           18    0.0632
## 89           10    0.0351
## 90           10    0.0351
## 91            7    0.0246
## 92            7    0.0246
## 93            3    0.0105
## 94            1    0.0035
## 95            1    0.0035
## 96            2    0.0070
## 98            1    0.0035

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

Plot of Feature:DRIVER_AGE
Data:All 2008-Only 2008-Homologated.csv



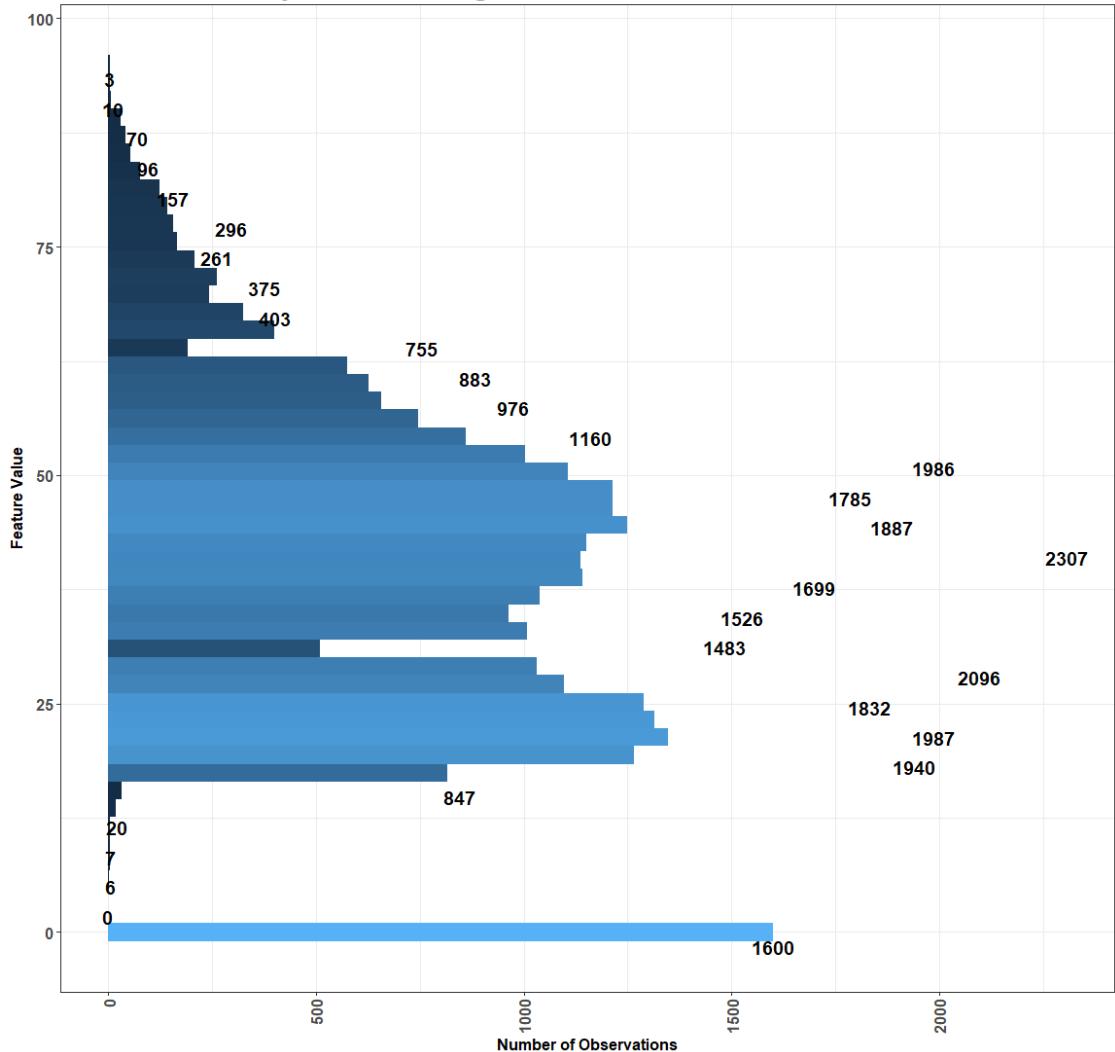
```
##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1600
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##      Min. 1st Qu. Median      Mean 3rd Qu.      Max.
##      0.0    26.0   39.0     38.9    51.0    95.0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 90
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value Counter Percentage
## -----
## 0 1600 5.6233
## 5 1 0.0035
## 7 4 0.0141
## 8 1 0.0035
## 9 1 0.0035
## 10 4 0.0141
## 11 2 0.0070
## 12 3 0.0105
## 13 7 0.0246
## 14 10 0.0351
## 15 12 0.0422
## 16 19 0.0668
## 17 261 0.9173
## 18 555 1.9506
## 19 593 2.0841
## 20 672 2.3618
## 21 675 2.3723
## 22 673 2.3653
## 23 687 2.4145
## 24 627 2.2036
## 25 658 2.3126
## 26 631 2.2177
## 27 543 1.9084
## 28 555 1.9506
## 29 530 1.8627
## 30 502 1.7643
## 31 509 1.7889
## 32 536 1.8838
## 33 472 1.6589
## 34 475 1.6694
## 35 488 1.7151
## 36 470 1.6518
## 37 568 1.9963
## 38 566 1.9892
## 39 575 2.0209
## 40 558 1.9611
## 41 580 2.0384
## 42 583 2.0490
## 43 569 1.9998
## 44 575 2.0209
## 45 674 2.3688
## 46 605 2.1263
```

## 47	608	2.1369
## 48	635	2.2318
## 49	579	2.0349
## 50	571	2.0068
## 51	535	1.8803
## 52	517	1.8170
## 53	486	1.7081
## 54	448	1.5745
## 55	413	1.4515
## 56	396	1.3918
## 57	351	1.2336
## 58	350	1.2301
## 59	307	1.0790
## 60	319	1.1211
## 61	308	1.0825
## 62	284	0.9981
## 63	291	1.0227
## 64	192	0.6748
## 65	195	0.6853
## 66	204	0.7170
## 67	164	0.5764
## 68	161	0.5658
## 69	131	0.4604
## 70	111	0.3901
## 71	139	0.4885
## 72	123	0.4323
## 73	113	0.3971
## 74	95	0.3339
## 75	87	0.3058
## 76	79	0.2777
## 77	81	0.2847
## 78	74	0.2601
## 79	81	0.2847
## 80	60	0.2109
## 81	55	0.1933
## 82	68	0.2390
## 83	34	0.1195
## 84	42	0.1476
## 85	28	0.0984
## 86	26	0.0914
## 87	23	0.0808
## 88	18	0.0633
## 89	17	0.0597
## 90	12	0.0422
## 91	5	0.0176
## 92	1	0.0035
## 93	4	0.0141
## 95	3	0.0105

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

Plot of Feature:DRIVER_AGE
Data:All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1443
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##   Min. 1st Qu. Median     Mean 3rd Qu.    Max.
##   0.0    26.0   39.0    39.1    51.0   98.0
## 
```

```

## Summary as Factor Feature:
## 
## Number of Features: 91
## 
## TOP 100 FEATURES OF DRIVER_AGE
## 
## Feature Value   Counter   Percentage
## -----
## 0              1443      5.2505
## 5              1          0.0036
## 7              1          0.0036
## 8              2          0.0073
## 10             2          0.0073
## 11             2          0.0073
## 12             4          0.0146
## 13             6          0.0218
## 14             9          0.0327
## 15            13          0.0473
## 16            40          0.1455
## 17            276         1.0043
## 18            498         1.8120
## 19            584         2.1249
## 20            660         2.4015
## 21            626         2.2778
## 22            668         2.4306
## 23            631         2.2960
## 24            662         2.4088
## 25            612         2.2268
## 26            588         2.1395
## 27            661         2.4051
## 28            539         1.9612
## 29            487         1.7720
## 30            460         1.6738
## 31            500         1.8193
## 32            467         1.6992
## 33            467         1.6992
## 34            502         1.8266
## 35            497         1.8084
## 36            519         1.8884
## 37            470         1.7101
## 38            455         1.6556
## 39            508         1.8484
## 40            536         1.9503
## 41            529         1.9248
## 42            589         2.1431
## 43            550         2.0012
## 44            569         2.0704
## 45            587         2.1359

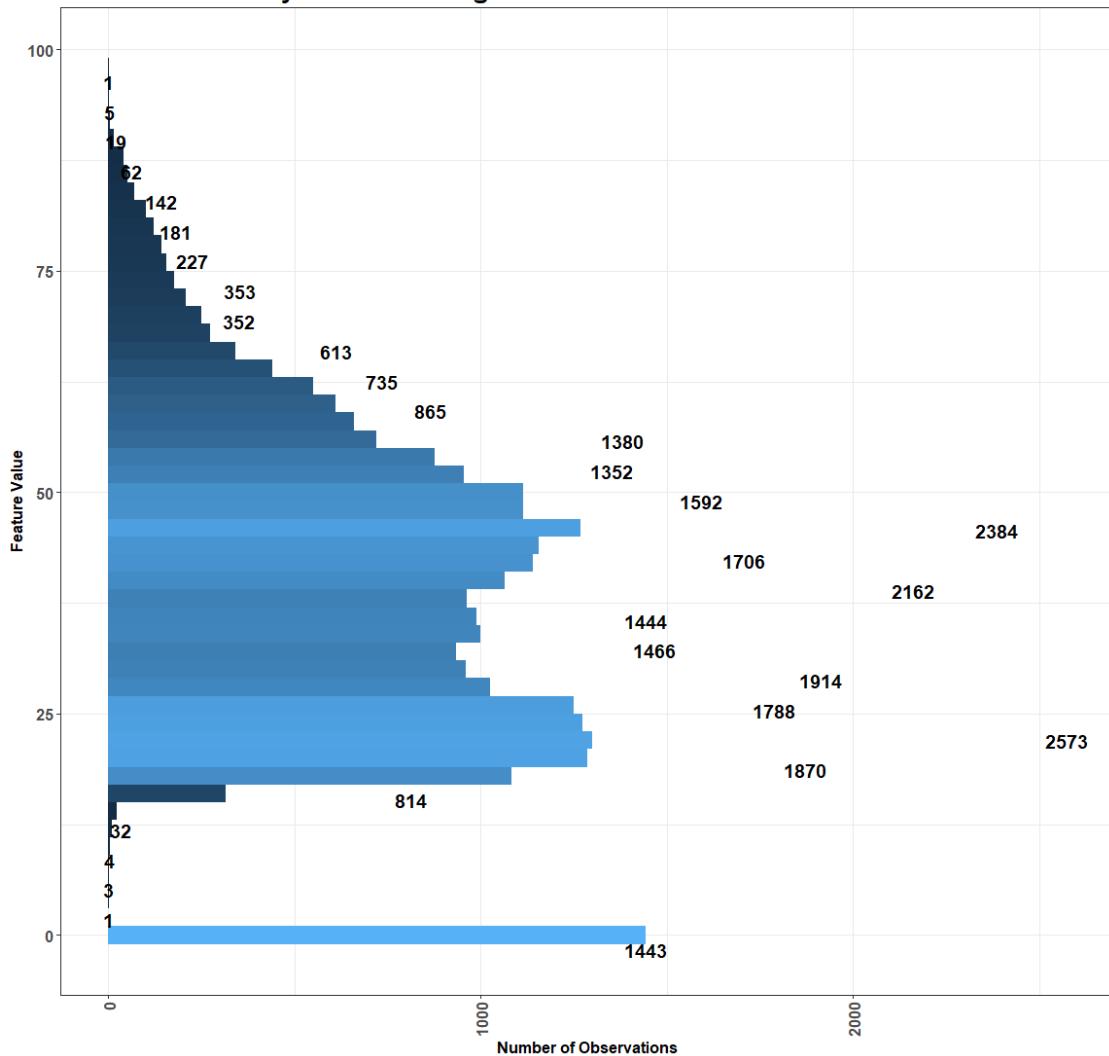
```

## 46	650	2.3651
## 47	619	2.2523
## 48	585	2.1286
## 49	530	1.9285
## 50	543	1.9758
## 51	570	2.0740
## 52	479	1.7429
## 53	476	1.7320
## 54	459	1.6701
## 55	417	1.5173
## 56	368	1.3390
## 57	352	1.2808
## 58	316	1.1498
## 59	344	1.2517
## 60	343	1.2480
## 61	266	0.9679
## 62	256	0.9315
## 63	294	1.0698
## 64	253	0.9206
## 65	188	0.6841
## 66	175	0.6368
## 67	166	0.6040
## 68	140	0.5094
## 69	132	0.4803
## 70	131	0.4767
## 71	118	0.4294
## 72	103	0.3748
## 73	105	0.3821
## 74	87	0.3166
## 75	89	0.3238
## 76	72	0.2620
## 77	83	0.3020
## 78	79	0.2875
## 79	65	0.2365
## 80	58	0.2110
## 81	65	0.2365
## 82	58	0.2110
## 83	42	0.1528
## 84	32	0.1164
## 85	38	0.1383
## 86	30	0.1092
## 87	21	0.0764
## 88	25	0.0910
## 89	16	0.0582
## 90	10	0.0364
## 91	6	0.0218
## 92	3	0.0109
## 93	1	0.0036

```
## 94           2    0.0073
## 96           2    0.0073
## 98           1    0.0036

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

Plot of Feature:DRIVER_AGE
Data:All 2010-Only 2010-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1589
## Number of Negative Values:0
##
## Summary as Numeric Feature:
```

```

##      Min. 1st Qu. Median   Mean 3rd Qu. Max.
##      0.0    26.0   39.0   39.1   51.0   96.0
##
## Summary as Factor Feature:
##
## Number of Features: 89
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value Counter Percentage
## -----
## 0          1589   5.6953
## 6           1   0.0036
## 8           1   0.0036
## 10          1   0.0036
## 11          1   0.0036
## 12          1   0.0036
## 14          6   0.0215
## 15          9   0.0323
## 16         28   0.1004
## 17         271   0.9713
## 18         474   1.6989
## 19         559   2.0036
## 20         601   2.1541
## 21         667   2.3907
## 22         620   2.2222
## 23         646   2.3154
## 24         615   2.2043
## 25         620   2.2222
## 26         616   2.2079
## 27         597   2.1398
## 28         544   1.9498
## 29         553   1.9821
## 30         550   1.9713
## 31         545   1.9534
## 32         489   1.7527
## 33         485   1.7384
## 34         517   1.8530
## 35         477   1.7097
## 36         525   1.8817
## 37         499   1.7885
## 38         511   1.8315
## 39         505   1.8100
## 40         536   1.9211
## 41         540   1.9355
## 42         532   1.9068
## 43         598   2.1434
## 44         540   1.9355

```

## 45	552	1.9785
## 46	602	2.1577
## 47	622	2.2294
## 48	580	2.0789
## 49	619	2.2186
## 50	554	1.9857
## 51	557	1.9964
## 52	525	1.8817
## 53	514	1.8423
## 54	488	1.7491
## 55	424	1.5197
## 56	385	1.3799
## 57	377	1.3513
## 58	328	1.1756
## 59	284	1.0179
## 60	293	1.0502
## 61	288	1.0323
## 62	252	0.9032
## 63	290	1.0394
## 64	254	0.9104
## 65	221	0.7921
## 66	177	0.6344
## 67	175	0.6272
## 68	140	0.5018
## 69	147	0.5269
## 70	128	0.4588
## 71	125	0.4480
## 72	102	0.3656
## 73	95	0.3405
## 74	89	0.3190
## 75	104	0.3728
## 76	85	0.3047
## 77	88	0.3154
## 78	59	0.2115
## 79	88	0.3154
## 80	67	0.2401
## 81	62	0.2222
## 82	49	0.1756
## 83	49	0.1756
## 84	40	0.1434
## 85	32	0.1147
## 86	27	0.0968
## 87	27	0.0968
## 88	23	0.0824
## 89	13	0.0466
## 90	14	0.0502
## 91	6	0.0215
## 92	3	0.0108

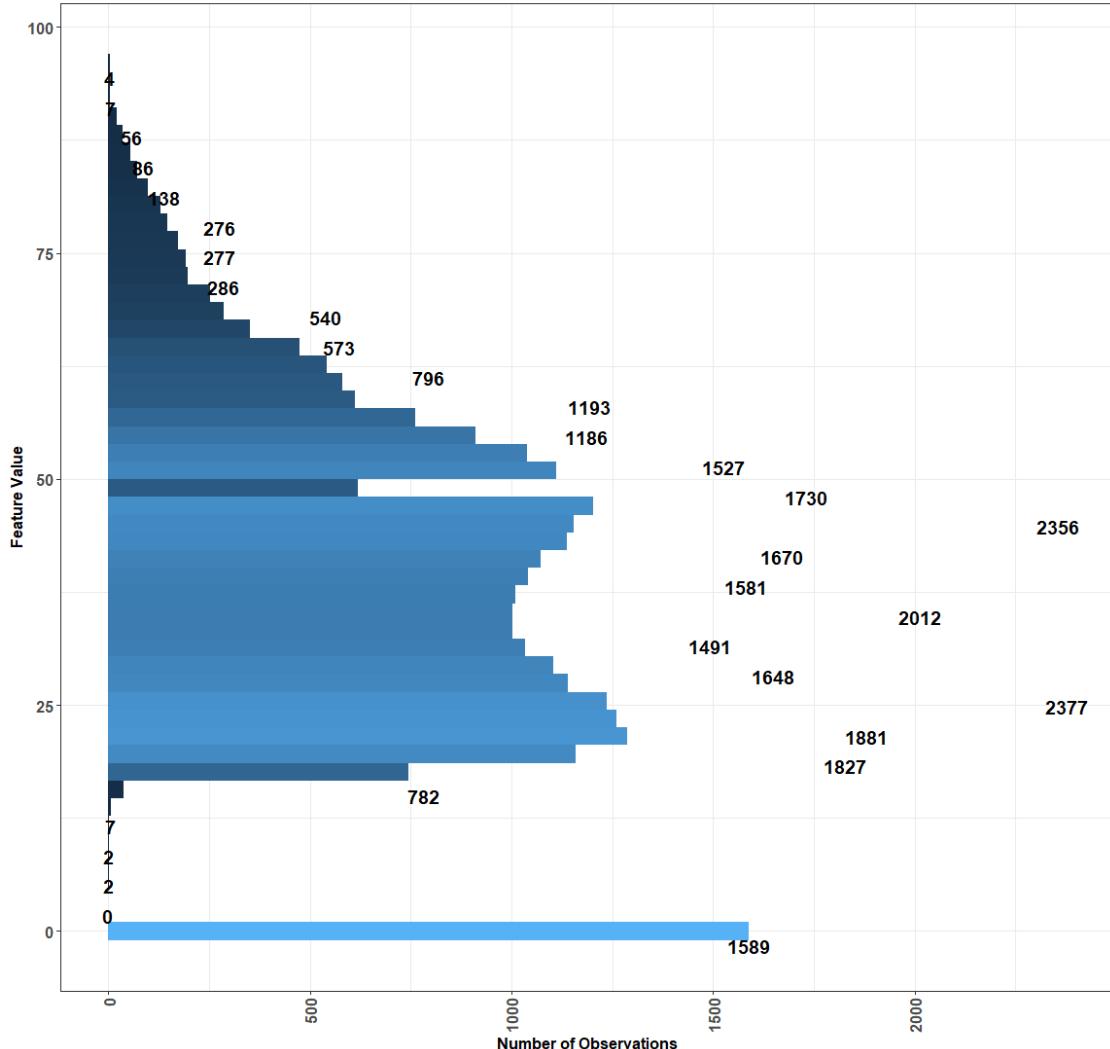
```

## 93           2    0.0072
## 94           2    0.0072
## 95           1    0.0036
## 96           3    0.0108

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

```

Plot of Feature:DRIVER_AGE
Data:All 2011-Only 2011-Homologated.csv



```

##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1447
## Number of Negative Values:0
## 
```

```

## Summary as Numeric Feature:
##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##   0.0    26.0   39.0   39.5   52.0   97.0
##
## Summary as Factor Feature:
##
## Number of Features: 90
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value   Counter   Percentage
## -----
## 0              1447      5.4542
## 7              1         0.0038
## 8              1         0.0038
## 10             1         0.0038
## 11             4         0.0151
## 12             1         0.0038
## 13             4         0.0151
## 14             4         0.0151
## 15             3         0.0113
## 16             31        0.1168
## 17             241       0.9084
## 18             391       1.4738
## 19             507       1.9110
## 20             561       2.1146
## 21             602       2.2691
## 22             656       2.4727
## 23             622       2.3445
## 24             576       2.1711
## 25             591       2.2277
## 26             611       2.3031
## 27             546       2.0580
## 28             561       2.1146
## 29             502       1.8922
## 30             467       1.7603
## 31             501       1.8884
## 32             547       2.0618
## 33             461       1.7377
## 34             495       1.8658
## 35             477       1.7980
## 36             471       1.7753
## 37             469       1.7678
## 38             456       1.7188
## 39             473       1.7829
## 40             469       1.7678
## 41             512       1.9299
## 42             514       1.9374

```

## 43	516	1.9450
## 44	563	2.1221
## 45	479	1.8055
## 46	570	2.1485
## 47	495	1.8658
## 48	600	2.2616
## 49	575	2.1674
## 50	525	1.9789
## 51	566	2.1334
## 52	495	1.8658
## 53	473	1.7829
## 54	409	1.5417
## 55	423	1.5944
## 56	413	1.5567
## 57	402	1.5153
## 58	336	1.2665
## 59	313	1.1798
## 60	255	0.9612
## 61	267	1.0064
## 62	257	0.9687
## 63	278	1.0479
## 64	242	0.9122
## 65	256	0.9649
## 66	225	0.8481
## 67	164	0.6182
## 68	186	0.7011
## 69	141	0.5315
## 70	162	0.6106
## 71	113	0.4259
## 72	101	0.3807
## 73	89	0.3355
## 74	93	0.3505
## 75	78	0.2940
## 76	92	0.3468
## 77	89	0.3355
## 78	83	0.3129
## 79	60	0.2262
## 80	53	0.1998
## 81	52	0.1960
## 82	49	0.1847
## 83	36	0.1357
## 84	39	0.1470
## 85	34	0.1282
## 86	17	0.0641
## 87	20	0.0754
## 88	22	0.0829
## 89	13	0.0490
## 90	12	0.0452

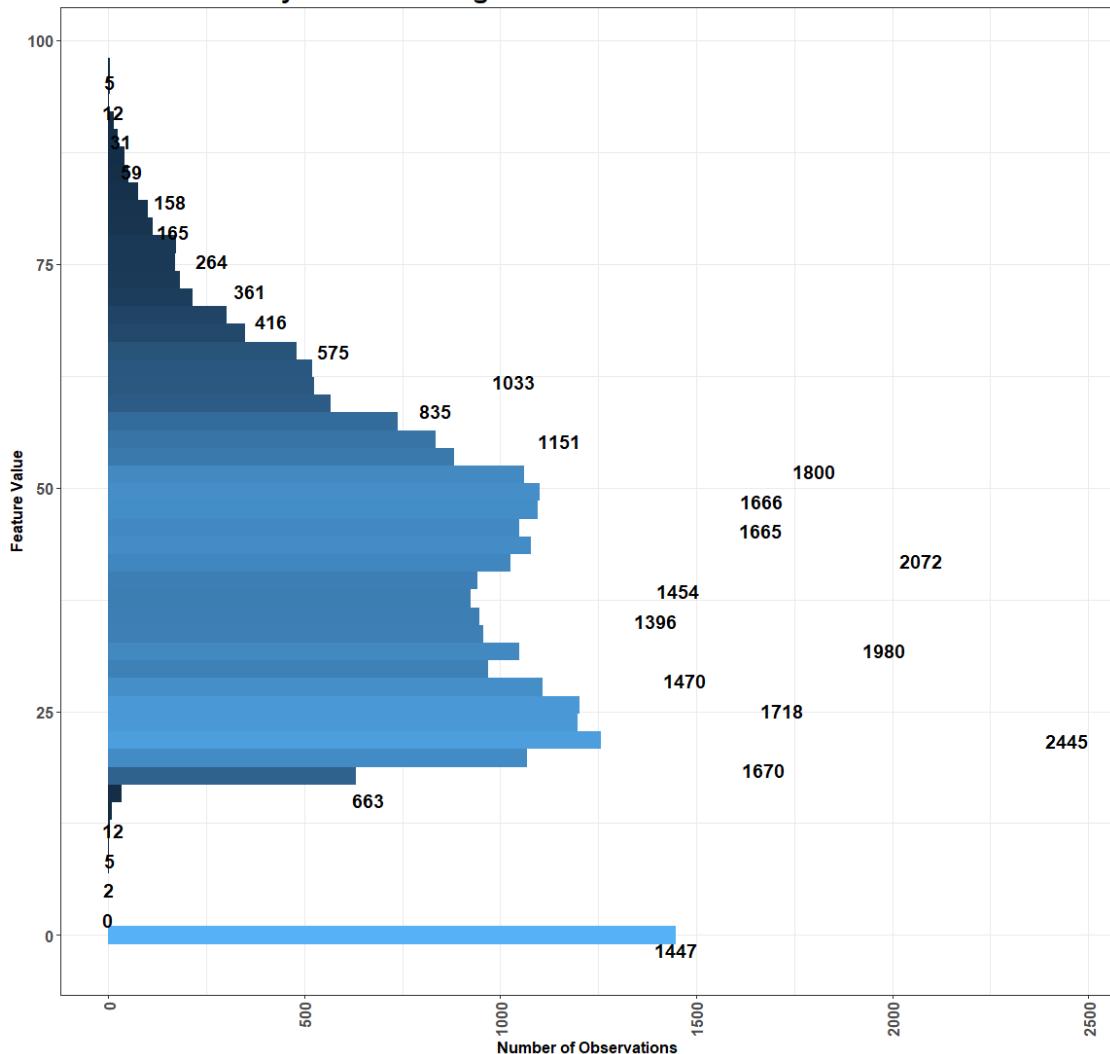
```

## 91           6   0.0226
## 92           8   0.0302
## 94           1   0.0038
## 95           3   0.0113
## 96           2   0.0075
## 97           3   0.0113

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

```

Plot of Feature:DRIVER_AGE
Data:All 2012-Only 2012-Homologated.csv



```

##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1515

```

```

## Number of Negative Values:0
##
## Summary as Numeric Feature:
##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##   0.0    26.0   40.0    39.7   52.0    99.0
##
## Summary as Factor Feature:
##
## Number of Features: 91
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value   Counter   Percentage
## -----
## 0               1515      5.4163
## 7               1          0.0036
## 8               1          0.0036
## 9               3          0.0107
## 10              1          0.0036
## 11              1          0.0036
## 13              3          0.0107
## 14              8          0.0286
## 15              15         0.0536
## 16              22         0.0787
## 17              233        0.8330
## 18              459        1.6410
## 19              477        1.7053
## 20              516        1.8448
## 21              633        2.2631
## 22              619        2.2130
## 23              654        2.3381
## 24              648        2.3167
## 25              640        2.2881
## 26              580        2.0736
## 27              590        2.1093
## 28              563        2.0128
## 29              521        1.8626
## 30              602        2.1522
## 31              539        1.9270
## 32              484        1.7304
## 33              525        1.8769
## 34              492        1.7590
## 35              482        1.7232
## 36              464        1.6589
## 37              503        1.7983
## 38              525        1.8769
## 39              561        2.0056
## 40              513        1.8340

```

## 41	535	1.9127
## 42	586	2.0950
## 43	585	2.0915
## 44	498	1.7804
## 45	554	1.9806
## 46	551	1.9699
## 47	574	2.0521
## 48	583	2.0843
## 49	593	2.1201
## 50	584	2.0879
## 51	583	2.0843
## 52	500	1.7876
## 53	519	1.8555
## 54	484	1.7304
## 55	484	1.7304
## 56	397	1.4193
## 57	431	1.5409
## 58	373	1.3335
## 59	355	1.2692
## 60	326	1.1655
## 61	270	0.9653
## 62	285	1.0189
## 63	242	0.8652
## 64	271	0.9689
## 65	251	0.8974
## 66	242	0.8652
## 67	211	0.7544
## 68	162	0.5792
## 69	158	0.5649
## 70	172	0.6149
## 71	137	0.4898
## 72	99	0.3539
## 73	103	0.3682
## 74	90	0.3218
## 75	106	0.3790
## 76	82	0.2932
## 77	83	0.2967
## 78	64	0.2288
## 79	67	0.2395
## 80	70	0.2503
## 81	44	0.1573
## 82	56	0.2002
## 83	43	0.1537
## 84	34	0.1216
## 85	28	0.1001
## 86	26	0.0930
## 87	19	0.0679
## 88	20	0.0715

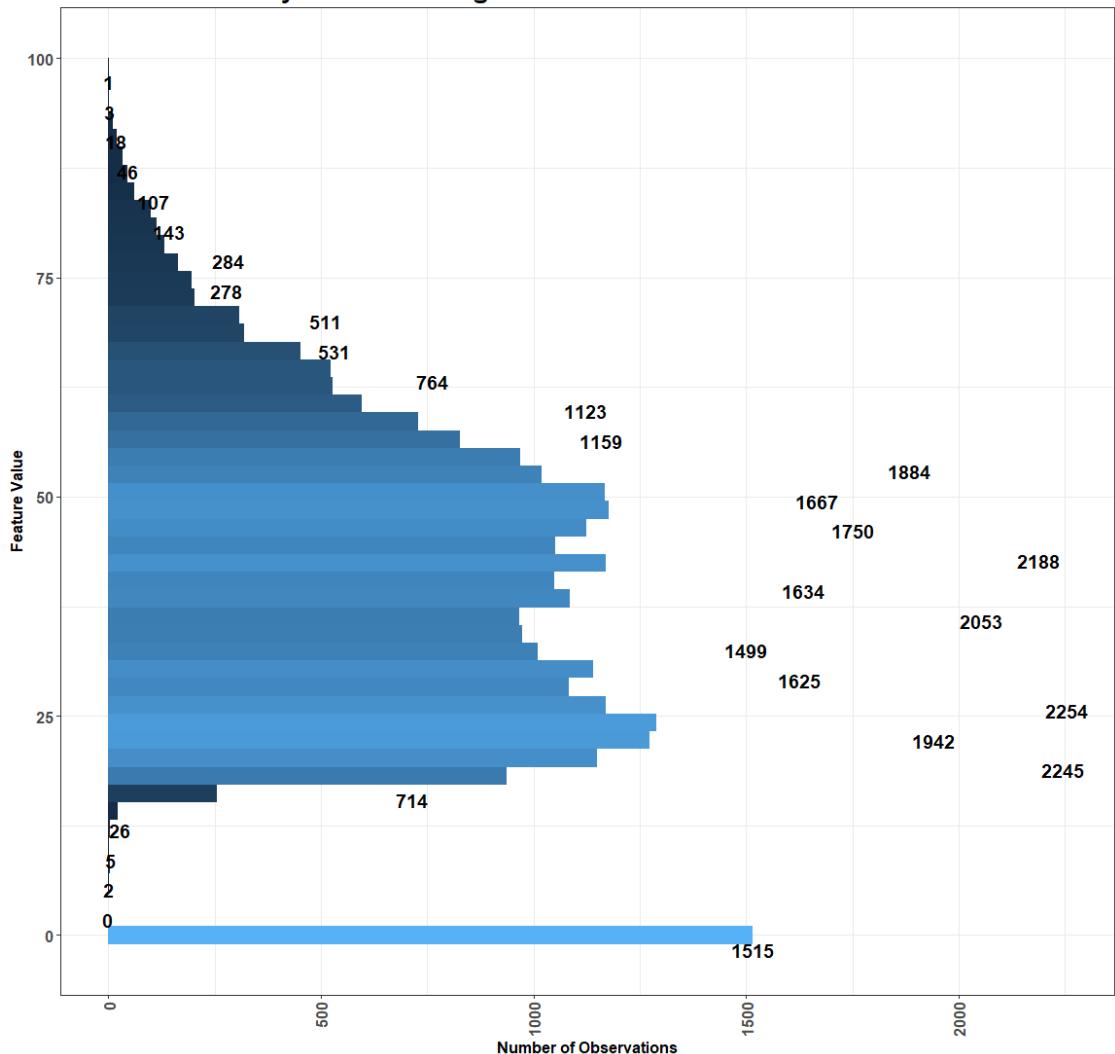
```

## 89           13   0.0465
## 90           13   0.0465
## 91            8   0.0286
## 92            9   0.0322
## 93            1   0.0036
## 94            1   0.0036
## 95            1   0.0036
## 97            1   0.0036
## 99            1   0.0036

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

```

Plot of Feature:DRIVER_AGE
Data:All 2013-Only 2013-Homologated.csv



```

## 
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2014-Only 2014-Homologated.csv...

```

```

## 
## Number of Blank Values:0
## Number of Zero Values:1481
## Number of Negative Values:0
## 
## Summary as Numeric Feature:
##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.
##       0      27     40     40     53      94
## 
## Summary as Factor Feature:
## 
## Number of Features: 90
## 
## TOP 100 FEATURES OF DRIVER_AGE
## 
## Feature Value Counter Percentage
## -----
## 0           1481    5.4265
## 3             1    0.0037
## 6             1    0.0037
## 7             1    0.0037
## 9             1    0.0037
## 10            1    0.0037
## 11            1    0.0037
## 12            4    0.0147
## 13            4    0.0147
## 14            3    0.0110
## 15            6    0.0220
## 16           31    0.1136
## 17          171    0.6266
## 18          399    1.4620
## 19          499    1.8284
## 20          492    1.8027
## 21          605    2.2168
## 22          603    2.2094
## 23          594    2.1765
## 24          648    2.3743
## 25          597    2.1875
## 26          593    2.1728
## 27          568    2.0812
## 28          604    2.2131
## 29          548    2.0079
## 30          508    1.8614
## 31          536    1.9639
## 32          529    1.9383
## 33          462    1.6928
## 34          493    1.8064
## 35          517    1.8943

```

## 36	464	1.7001
## 37	518	1.8980
## 38	440	1.6122
## 39	491	1.7991
## 40	495	1.8137
## 41	577	2.1142
## 42	555	2.0336
## 43	503	1.8430
## 44	567	2.0775
## 45	530	1.9420
## 46	587	2.1508
## 47	524	1.9200
## 48	518	1.8980
## 49	517	1.8943
## 50	562	2.0592
## 51	550	2.0152
## 52	557	2.0409
## 53	507	1.8577
## 54	484	1.7734
## 55	433	1.5865
## 56	401	1.4693
## 57	421	1.5426
## 58	365	1.3374
## 59	356	1.3044
## 60	283	1.0369
## 61	342	1.2531
## 62	247	0.9050
## 63	254	0.9307
## 64	224	0.8208
## 65	274	1.0040
## 66	249	0.9124
## 67	213	0.7804
## 68	181	0.6632
## 69	162	0.5936
## 70	143	0.5240
## 71	136	0.4983
## 72	139	0.5093
## 73	106	0.3884
## 74	96	0.3518
## 75	66	0.2418
## 76	85	0.3114
## 77	90	0.3298
## 78	67	0.2455
## 79	71	0.2601
## 80	65	0.2382
## 81	62	0.2272
## 82	55	0.2015
## 83	49	0.1795

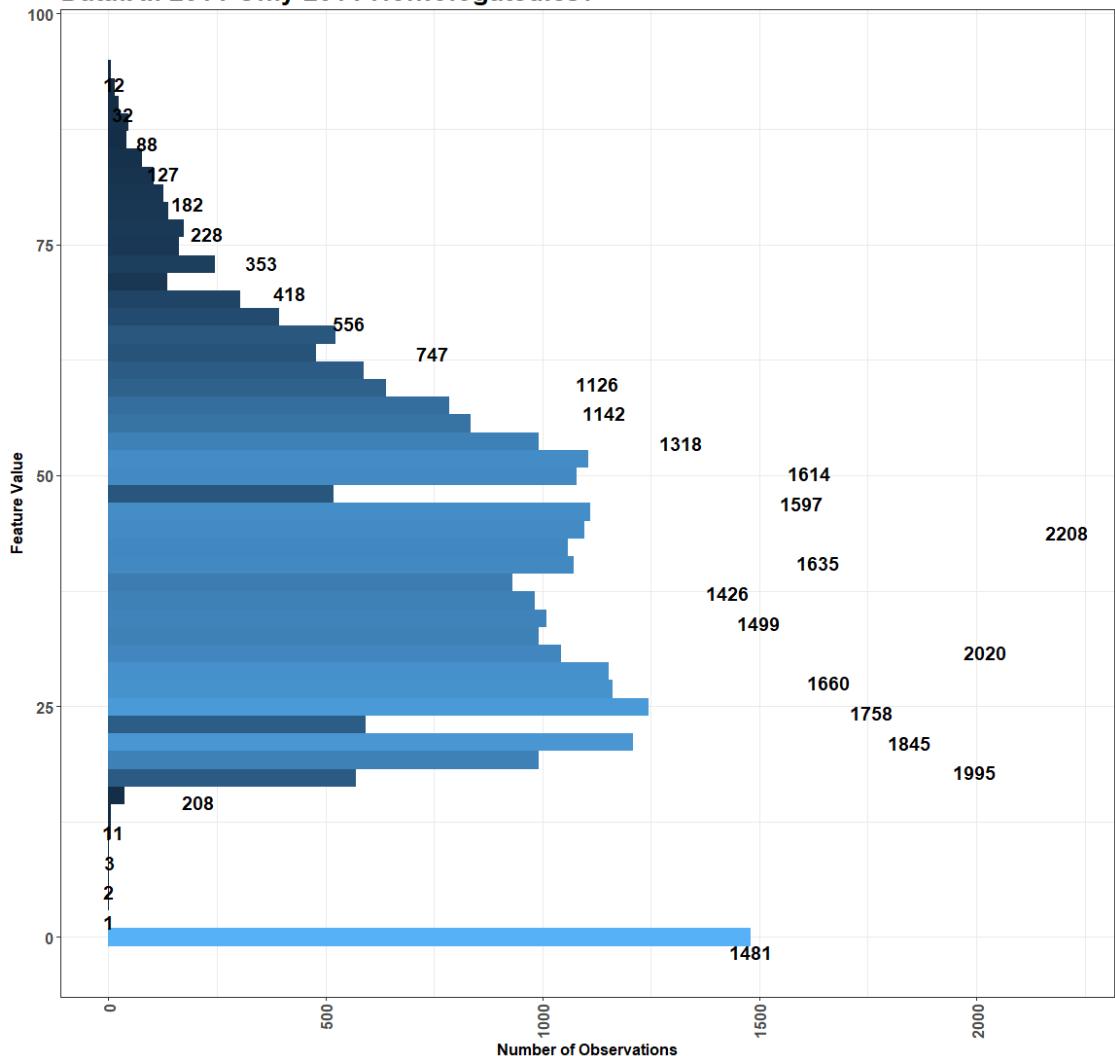
```

## 84           52      0.1905
## 85           26      0.0953
## 86           25      0.0916
## 87           17      0.0623
## 88           23      0.0843
## 89           23      0.0843
## 90           13      0.0476
## 91           10      0.0366
## 92            9      0.0330
## 93            7      0.0256
## 94            5      0.0183

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

```

Plot of Feature:DRIVER_AGE
Data:All 2014-Only 2014-Homologated.csv



```

##  

## -----

```

```

## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1545
## Number of Negative Values:2
##
## Summary as Numeric Feature:
##      Min. 1st Qu. Median     Mean 3rd Qu.      Max.
##      -2959       27      40      40      53       99
##
## Summary as Factor Feature:
##
## Number of Features: 93
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value   Counter   Percentage
## ----- -----
## -2959           1         0.0036
## -1              1         0.0036
## 0               1545      5.5442
## 7               2         0.0072
## 8               2         0.0072
## 10              1         0.0036
## 11              3         0.0108
## 12              6         0.0215
## 13              3         0.0108
## 14              4         0.0144
## 15              8         0.0287
## 16              21        0.0754
## 17              209       0.7500
## 18              376       1.3493
## 19              517       1.8552
## 20              541       1.9414
## 21              614       2.2033
## 22              606       2.1746
## 23              550       1.9737
## 24              644       2.3110
## 25              595       2.1351
## 26              589       2.1136
## 27              611       2.1926
## 28              551       1.9772
## 29              536       1.9234
## 30              558       2.0024
## 31              566       2.0311
## 32              531       1.9055
## 33              523       1.8768

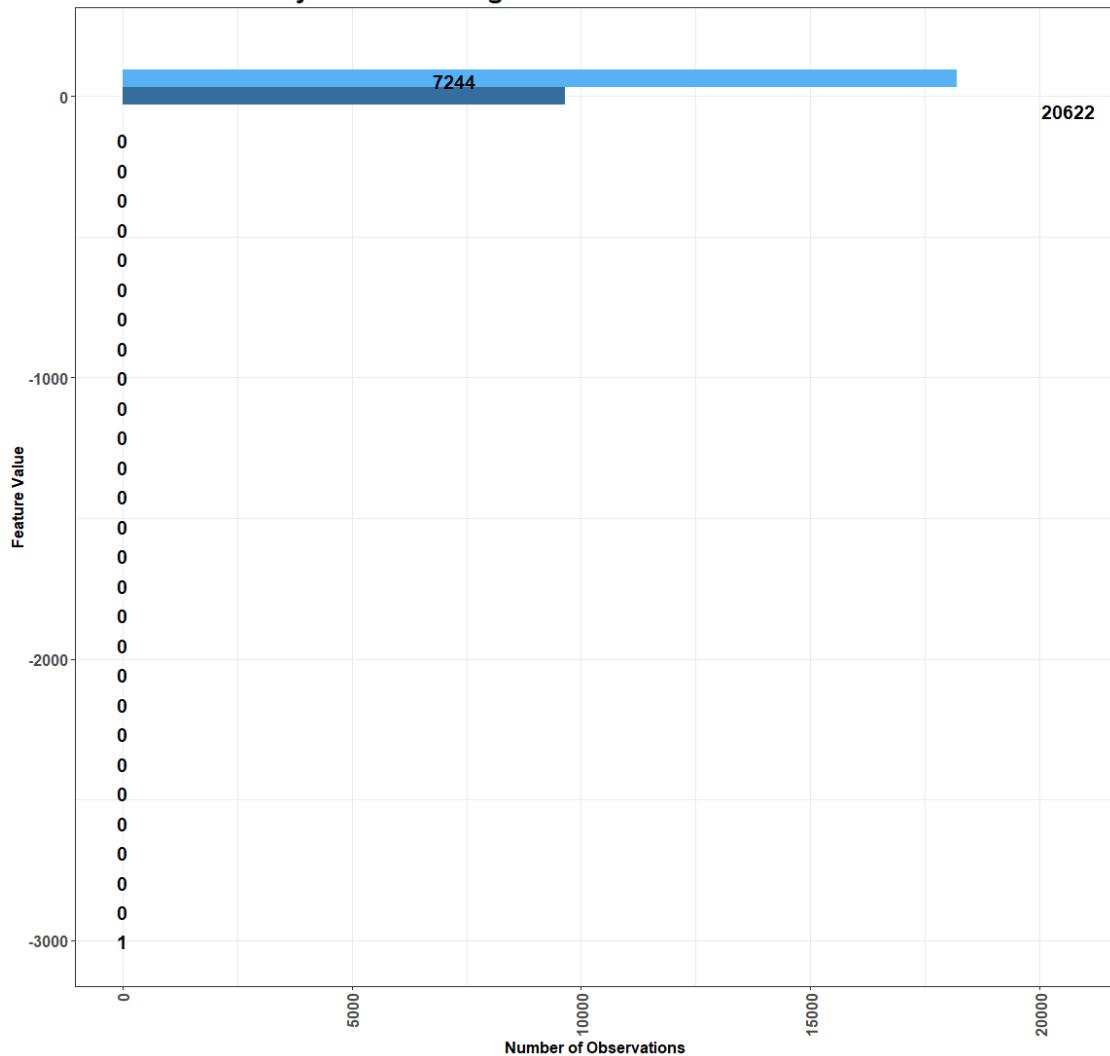
```

## 34	491	1.7619
## 35	471	1.6902
## 36	508	1.8229
## 37	512	1.8373
## 38	453	1.6256
## 39	473	1.6973
## 40	499	1.7906
## 41	524	1.8804
## 42	519	1.8624
## 43	590	2.1172
## 44	537	1.9270
## 45	549	1.9701
## 46	505	1.8122
## 47	526	1.8875
## 48	492	1.7655
## 49	519	1.8624
## 50	588	2.1100
## 51	590	2.1172
## 52	563	2.0203
## 53	512	1.8373
## 54	498	1.7871
## 55	511	1.8337
## 56	428	1.5359
## 57	403	1.4462
## 58	389	1.3959
## 59	392	1.4067
## 60	368	1.3206
## 61	297	1.0658
## 62	307	1.1017
## 63	271	0.9725
## 64	236	0.8469
## 65	228	0.8182
## 66	215	0.7715
## 67	231	0.8289
## 68	220	0.7895
## 69	175	0.6280
## 70	158	0.5670
## 71	153	0.5490
## 72	152	0.5454
## 73	124	0.4450
## 74	120	0.4306
## 75	87	0.3122
## 76	88	0.3158
## 77	93	0.3337
## 78	70	0.2512
## 79	65	0.2333
## 80	67	0.2404
## 81	53	0.1902

```
## 82           41    0.1471
## 83           53    0.1902
## 84           49    0.1758
## 85           50    0.1794
## 86           33    0.1184
## 87           25    0.0897
## 88           19    0.0682
## 89           16    0.0574
## 90           11    0.0395
## 91           18    0.0646
## 92           10    0.0359
## 93            3    0.0108
## 94            1    0.0036
## 96            2    0.0072
## 97            1    0.0036
## 99            1    0.0036

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

Plot of Feature:DRIVER_AGE
Data:All 2015-Only 2015-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:DRIVER_AGE  

## DATA:All 2016-Only 2016-Homologated.csv...  

##  

## Number of Blank Values:0  

## Number of Zero Values:1732  

## Number of Negative Values:0  

##  

## Summary as Numeric Feature:  

##      Min. 1st Qu. Median      Mean 3rd Qu.      Max.  

##      0.0    26.0   39.0    39.5    53.0    97.0  

##  

## Summary as Factor Feature:  

##
```

```

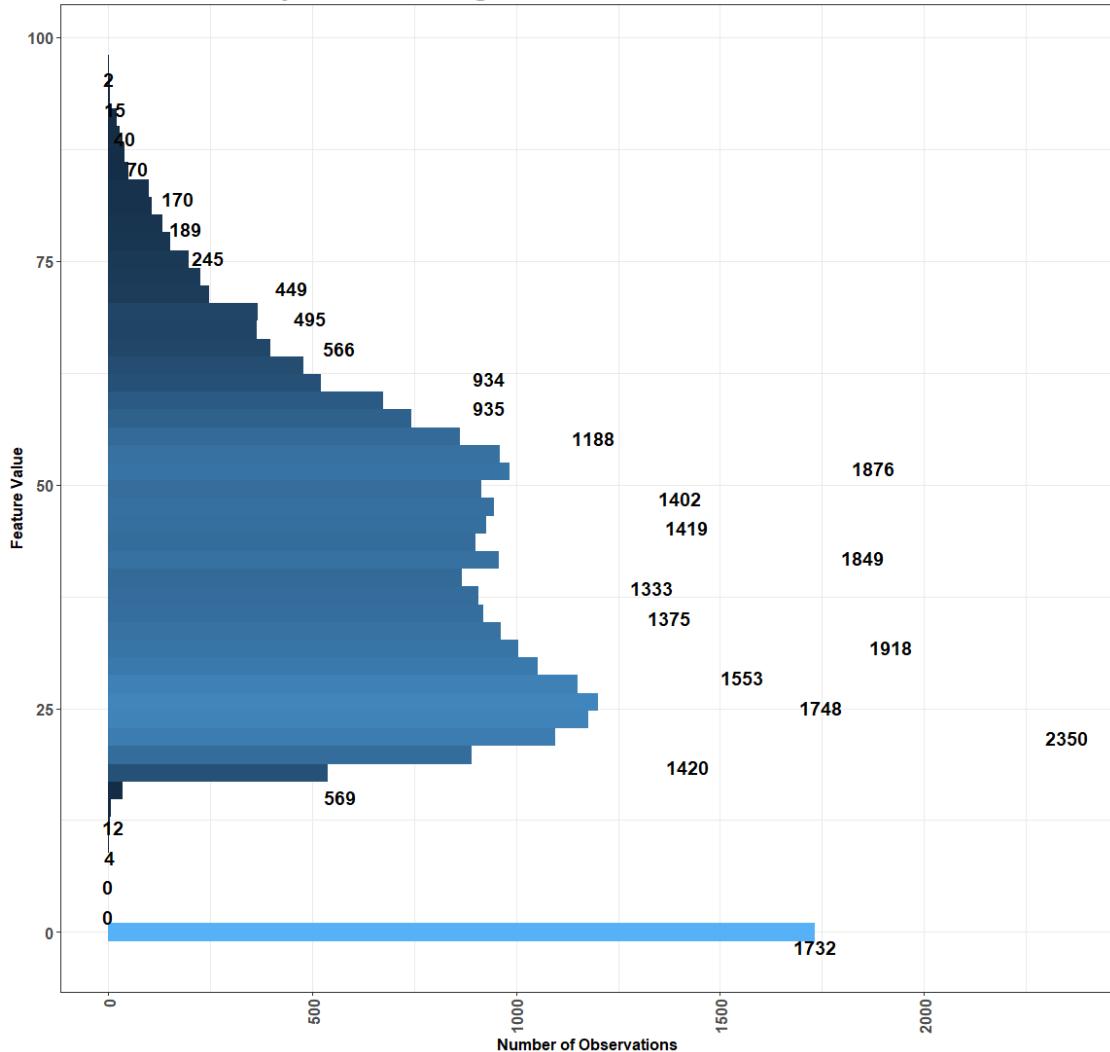
## Number of Features: 90
##
## TOP 100 FEATURES OF DRIVER_AGE
##
## Feature Value Counter Percentage
## -----
## 0 1732 6.6981
## 9 1 0.0039
## 10 1 0.0039
## 11 2 0.0077
## 12 2 0.0077
## 13 4 0.0155
## 14 2 0.0077
## 15 4 0.0155
## 16 31 0.1199
## 17 197 0.7619
## 18 341 1.3187
## 19 424 1.6397
## 20 468 1.8099
## 21 528 2.0419
## 22 569 2.2005
## 23 582 2.2508
## 24 595 2.3010
## 25 604 2.3358
## 26 597 2.3088
## 27 603 2.3320
## 28 548 2.1193
## 29 545 2.1077
## 30 507 1.9607
## 31 501 1.9375
## 32 504 1.9491
## 33 504 1.9491
## 34 459 1.7751
## 35 451 1.7441
## 36 468 1.8099
## 37 476 1.8408
## 38 431 1.6668
## 39 413 1.5972
## 40 455 1.7596
## 41 465 1.7983
## 42 493 1.9066
## 43 434 1.6784
## 44 467 1.8060
## 45 455 1.7596
## 46 472 1.8254
## 47 479 1.8524
## 48 468 1.8099
## 49 462 1.7867

```

## 50	454	1.7557
## 51	486	1.8795
## 52	498	1.9259
## 53	482	1.8640
## 54	477	1.8447
## 55	419	1.6204
## 56	444	1.7171
## 57	390	1.5082
## 58	354	1.3690
## 59	355	1.3729
## 60	320	1.2375
## 61	260	1.0055
## 62	261	1.0094
## 63	254	0.9823
## 64	225	0.8701
## 65	194	0.7503
## 66	203	0.7851
## 67	186	0.7193
## 68	177	0.6845
## 69	195	0.7541
## 70	172	0.6652
## 71	128	0.4950
## 72	120	0.4641
## 73	114	0.4409
## 74	111	0.4293
## 75	104	0.4022
## 76	94	0.3635
## 77	74	0.2862
## 78	77	0.2978
## 79	63	0.2436
## 80	69	0.2668
## 81	57	0.2204
## 82	50	0.1934
## 83	40	0.1547
## 84	60	0.2320
## 85	20	0.0773
## 86	30	0.1160
## 87	27	0.1044
## 88	13	0.0503
## 89	15	0.0580
## 90	12	0.0464
## 91	13	0.0503
## 92	8	0.0309
## 93	3	0.0116
## 94	2	0.0077
## 95	2	0.0077
## 96	1	0.0039
## 97	1	0.0039

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

Plot of Feature:DRIVER_AGE
Data:All 2016-Only 2016-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_AGE
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:1841
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##   Min. 1st Qu. Median     Mean 3rd Qu.    Max.
##   0.0    26.0   39.0    39.6   53.0   97.0
## 
```

```

## Summary as Factor Feature:
## 
## Number of Features: 91
## 
## TOP 100 FEATURES OF DRIVER_AGE
## 
## Feature Value   Counter   Percentage
## -----
## 0              1841     6.9364
## 6              1         0.0038
## 7              1         0.0038
## 8              3         0.0113
## 10             1         0.0038
## 11             4         0.0151
## 13             2         0.0075
## 14             2         0.0075
## 15             9         0.0339
## 16             28        0.1055
## 17             195       0.7347
## 18             361       1.3602
## 19             418       1.5749
## 20             511       1.9253
## 21             542       2.0421
## 22             601       2.2644
## 23             571       2.1514
## 24             565       2.1288
## 25             578       2.1778
## 26             652       2.4566
## 27             611       2.3021
## 28             566       2.1325
## 29             537       2.0233
## 30             517       1.9479
## 31             538       2.0271
## 32             525       1.9781
## 33             436       1.6427
## 34             522       1.9668
## 35             470       1.7708
## 36             480       1.8085
## 37             458       1.7256
## 38             443       1.6691
## 39             433       1.6314
## 40             477       1.7972
## 41             449       1.6917
## 42             423       1.5938
## 43             468       1.7633
## 44             481       1.8123
## 45             502       1.8914
## 46             481       1.8123

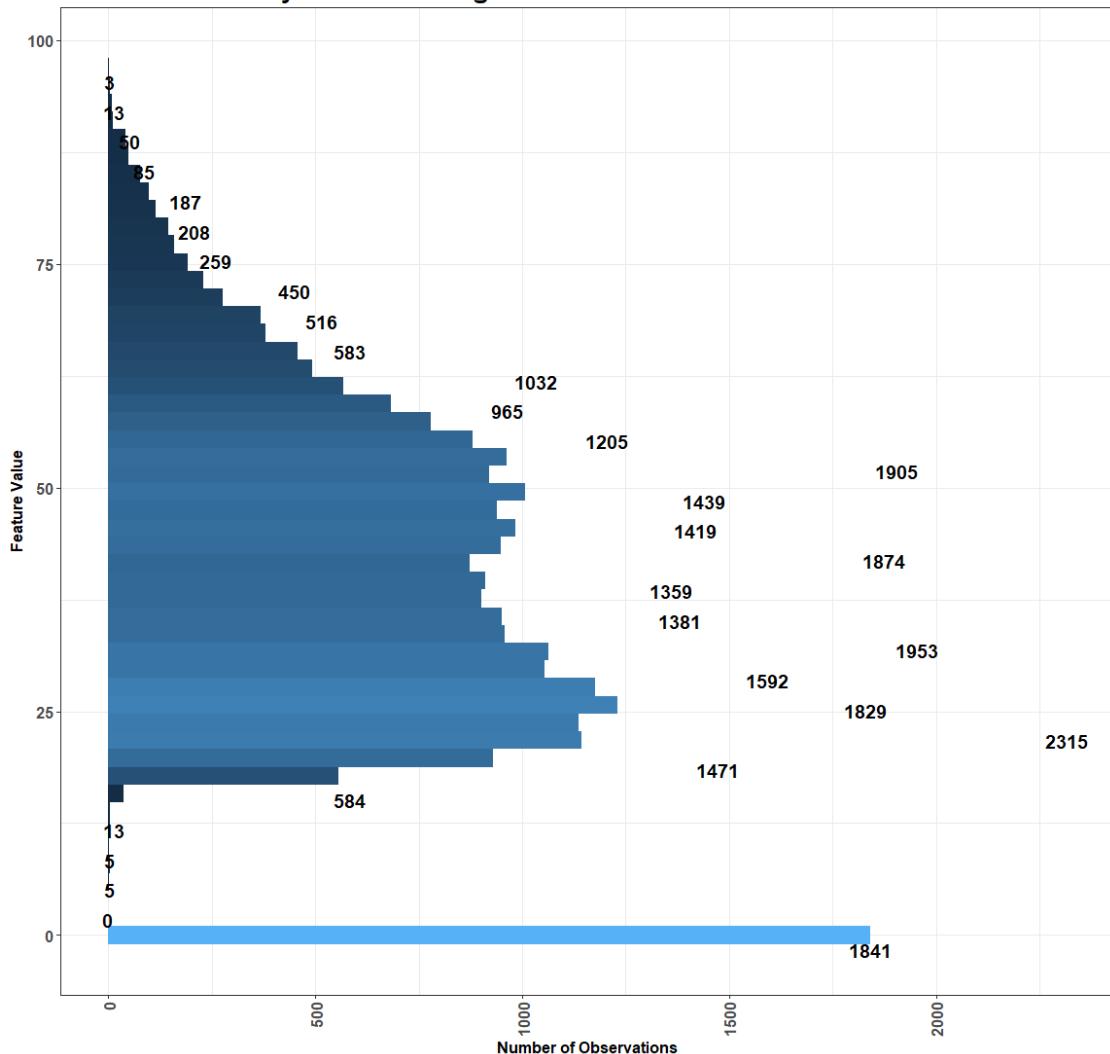
```

## 47	467	1.7595
## 48	471	1.7746
## 49	508	1.9140
## 50	498	1.8763
## 51	433	1.6314
## 52	488	1.8387
## 53	494	1.8613
## 54	468	1.7633
## 55	455	1.7143
## 56	426	1.6051
## 57	399	1.5033
## 58	380	1.4317
## 59	370	1.3941
## 60	313	1.1793
## 61	282	1.0625
## 62	286	1.0776
## 63	258	0.9721
## 64	235	0.8854
## 65	253	0.9532
## 66	204	0.7686
## 67	172	0.6481
## 68	207	0.7799
## 69	185	0.6970
## 70	182	0.6857
## 71	149	0.5614
## 72	127	0.4785
## 73	122	0.4597
## 74	107	0.4031
## 75	94	0.3542
## 76	99	0.3730
## 77	80	0.3014
## 78	80	0.3014
## 79	83	0.3127
## 80	61	0.2298
## 81	64	0.2411
## 82	50	0.1884
## 83	51	0.1922
## 84	46	0.1733
## 85	40	0.1507
## 86	36	0.1356
## 87	30	0.1130
## 88	19	0.0716
## 89	29	0.1093
## 90	13	0.0490
## 91	8	0.0301
## 92	4	0.0151
## 93	6	0.0226
## 94	2	0.0075

```
## 95           1   0.0038
## 96           2   0.0075
## 97           1   0.0038

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

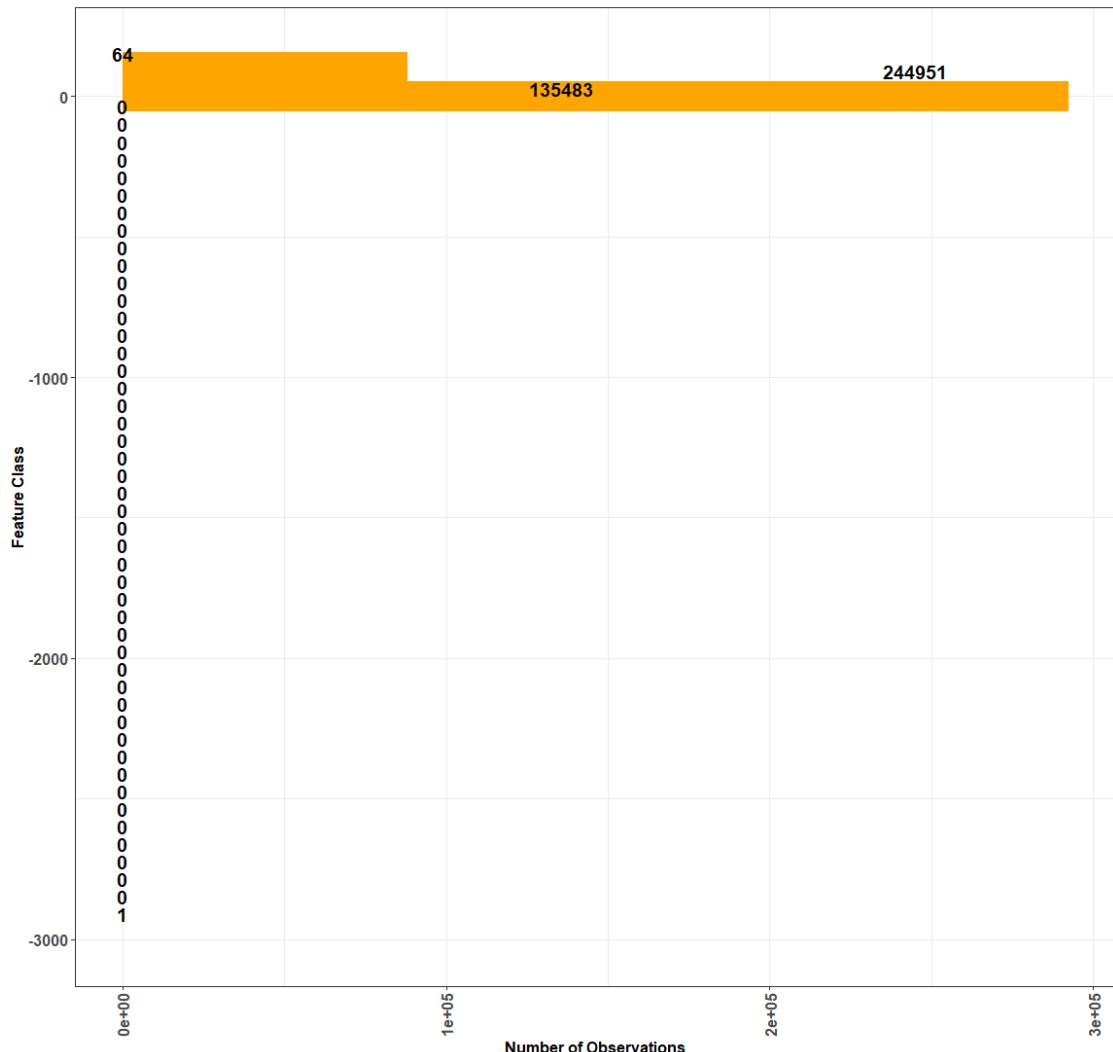
Plot of Feature:DRIVER_AGE
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:DRIVER_AGE
## ALL DATA...
## =====
##
## Number of Blank Values:0
## Number of Zero Values:21180
## Number of Negative Values:2
##
```

```
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Numeric Feature:  
## Min. 1st Qu. Median Mean 3rd Qu. Max.  
## -2959.0 26.0 39.0 39.2 52.0 103.0  
##  
## Summary as Factor Feature:  
## Number of Features: 100  
  
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

Plot of Feature:DRIVER_AGE All Data



```
## [1] "TOP 100 FEATURES COUNTERS OF:DRIVER_AGE"
```

Feature Value	Counter	Percentage
0	21180	5.5664
22	8520	2.2392
21	8506	2.2355
23	8457	2.2226
24	8439	2.2179
25	8260	2.1708
26	8197	2.1543
20	8057	2.1175
46	8044	2.1141



45	7974	2.0957
44	7966	2.0936
42	7930	2.0841
43	7917	2.0807
27	7916	2.0804
41	7812	2.0531
47	7733	2.0323
48	7689	2.0208
28	7641	2.0082
49	7630	2.0053
40	7571	1.9898
19	7541	1.9819
50	7388	1.9417
39	7376	1.9385
29	7251	1.9057
37	7251	1.9057
31	7237	1.9020
51	7216	1.8965
36	7161	1.8820
30	7158	1.8812
38	7116	1.8702
32	7096	1.8649
35	7037	1.8494
34	7015	1.8436
52	6943	1.8247
33	6914	1.8171
53	6662	1.7509
18	6539	1.7185
54	6164	1.6200
55	5891	1.5482
56	5449	1.4321
57	5267	1.3842
58	4859	1.2770
59	4582	1.2042
60	4199	1.1036



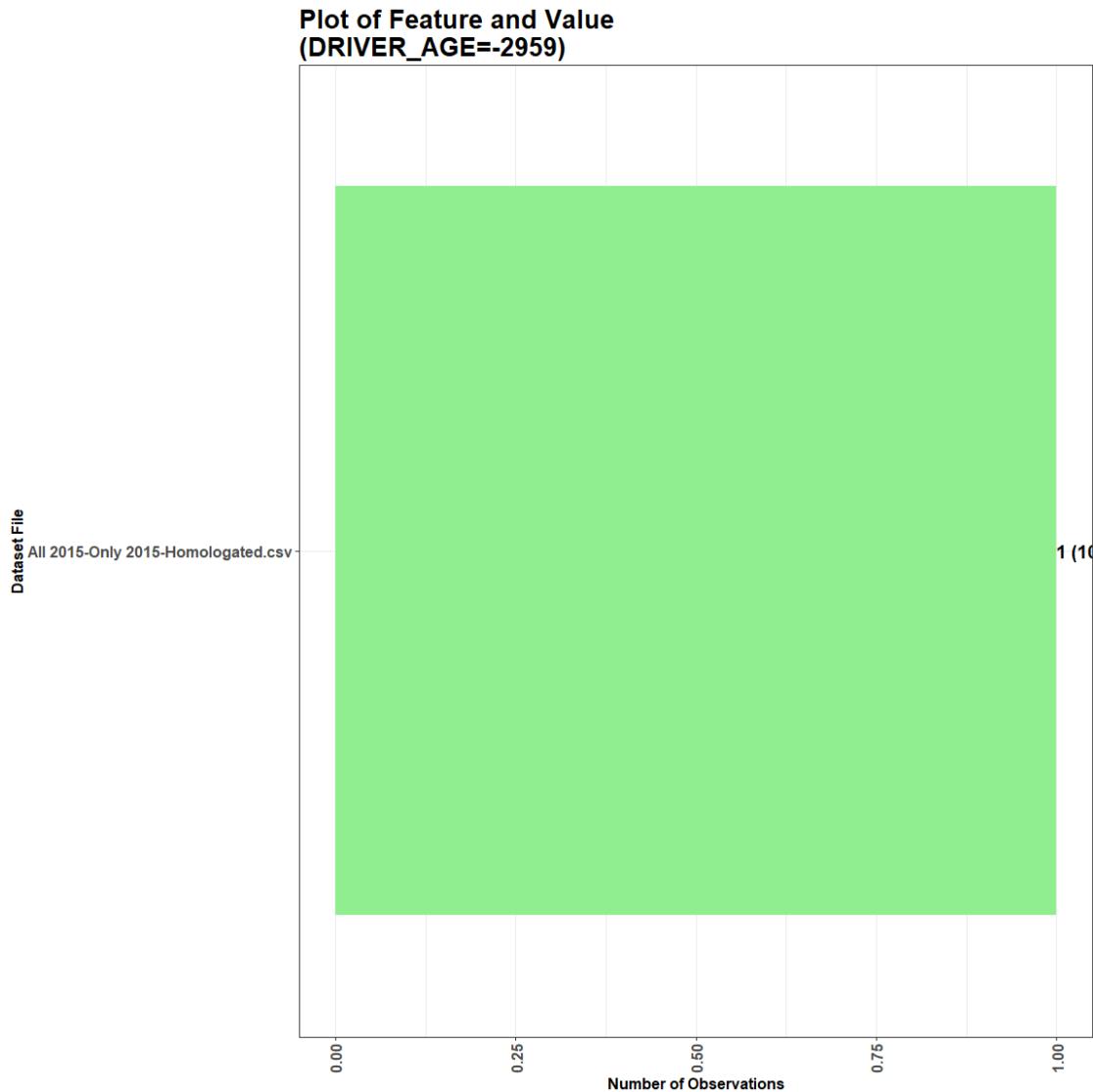
61	3863	1.0152
62	3645	0.9580
17	3618	0.9509
63	3403	0.8944
64	3074	0.8079
65	2898	0.7616
66	2627	0.6904
67	2359	0.6200
68	2206	0.5798
69	1941	0.5101
70	1899	0.4991
71	1698	0.4463
72	1606	0.4221
73	1452	0.3816
74	1338	0.3516
75	1258	0.3306
76	1161	0.3051
77	1135	0.2983
78	1016	0.2670
79	987	0.2594
80	865	0.2273
81	774	0.2034
82	703	0.1848
83	604	0.1587
84	564	0.1482
85	465	0.1222
16	439	0.1154
86	390	0.1025
87	315	0.0828
88	258	0.0678
89	213	0.0560
15	161	0.0423
90	156	0.0410
91	108	0.0284
14	103	0.0271



92	80	0.0210
13	68	0.0179
12	58	0.0152
11	42	0.0110
93	38	0.0100
10	25	0.0066
8	21	0.0055
94	20	0.0053
7	18	0.0047
9	17	0.0045
96	15	0.0039
95	14	0.0037
97	9	0.0024
5	5	0.0013
6	5	0.0013
3	2	0.0005
98	2	0.0005
99	2	0.0005
-2959	1	0.0003
-1	1	0.0003
(Other)	3	0.0008

4.1 DRIVER_AGE = “-2959”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_AGE=-2959)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
## 1
```

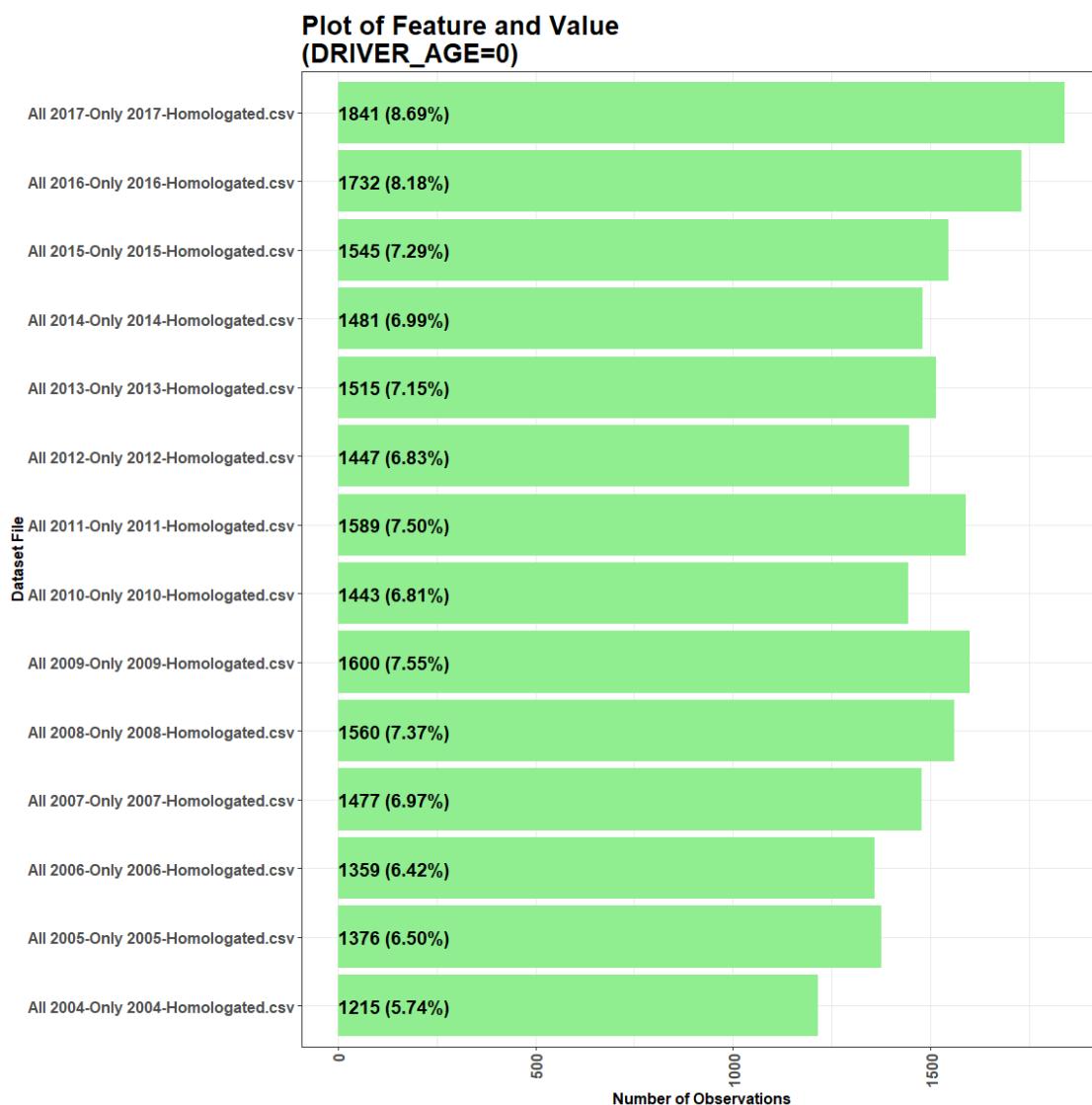


DATASET FILE	COUNTER OF (DRIVER_AGE=-2959)	Percentage
All 2015-Only 2015-Homologated.csv	1	100

4.2 DRIVER_AGE = “0”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_AGE=0)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 1215 1376  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 1359 1477  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
```

```
##          1560          1600
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          1443          1589
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          1447          1515
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          1481          1545
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          1732          1841
```

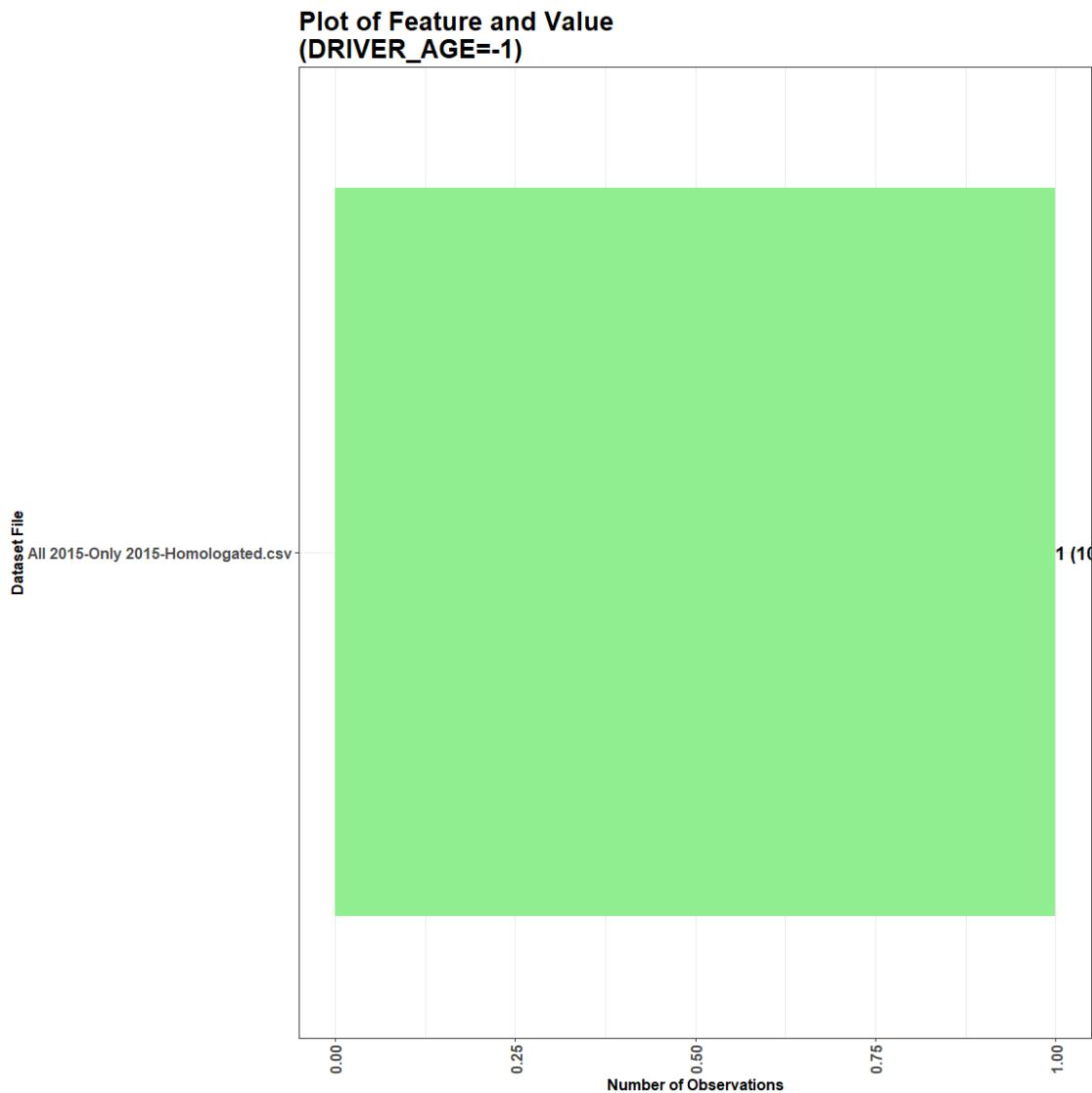


DATASET FILE	COUNTER OF (DRIVER_AGE=0)	Percentage
All 2004-Only 2004-Homologated.csv	1215	5.737
All 2005-Only 2005-Homologated.csv	1376	6.497
All 2006-Only 2006-Homologated.csv	1359	6.416

All 2007-Only 2007-Homologated.csv	1477	6.974
All 2008-Only 2008-Homologated.csv	1560	7.365
All 2009-Only 2009-Homologated.csv	1600	7.554
All 2010-Only 2010-Homologated.csv	1443	6.813
All 2011-Only 2011-Homologated.csv	1589	7.502
All 2012-Only 2012-Homologated.csv	1447	6.832
All 2013-Only 2013-Homologated.csv	1515	7.153
All 2014-Only 2014-Homologated.csv	1481	6.992
All 2015-Only 2015-Homologated.csv	1545	7.295
All 2016-Only 2016-Homologated.csv	1732	8.178
All 2017-Only 2017-Homologated.csv	1841	8.692

4.3 DRIVER_AGE = “-1”

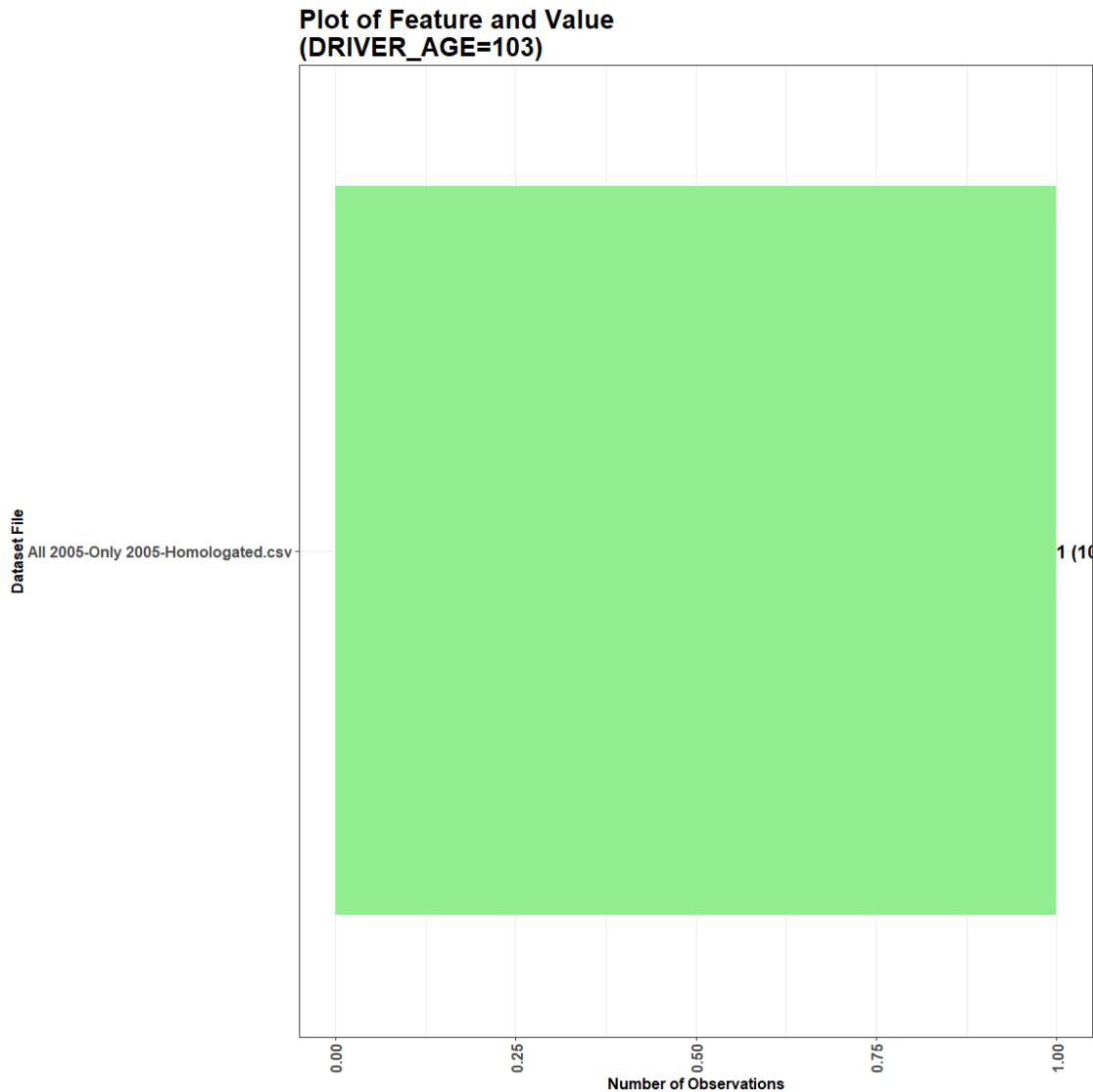
```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_AGE=-1)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
## 1
```



DATASET FILE	COUNTER OF (DRIVER_AGE=-1)	Percentage
All 2015-Only 2015-Homologated.csv	1	100

4.4 DRIVER_AGE = “103”

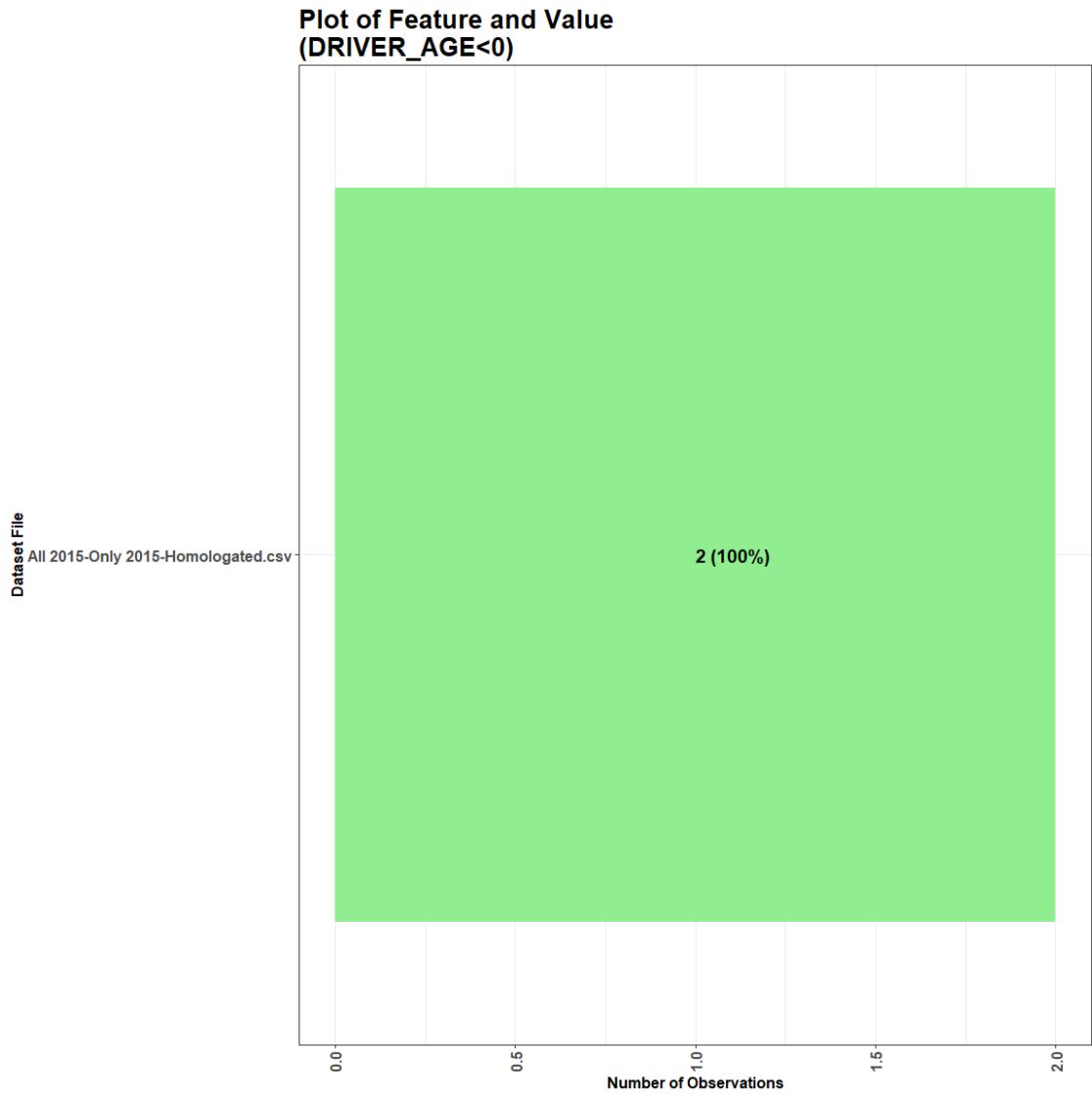
```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_AGE=103)  
##  
## Summary per Data File:  
## All 2005-Only 2005-Homologated.csv  
## 1
```



DATASET FILE	COUNTER OF (DRIVER_AGE=103)	Percentage
All 2005-Only 2005-Homologated.csv	1	100

4.5 DRIVER_AGE < "0"

```
##  
## ======  
## CHECKING FEATURE AND VALUE (DRIVER_AGE<0)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
## 2
```

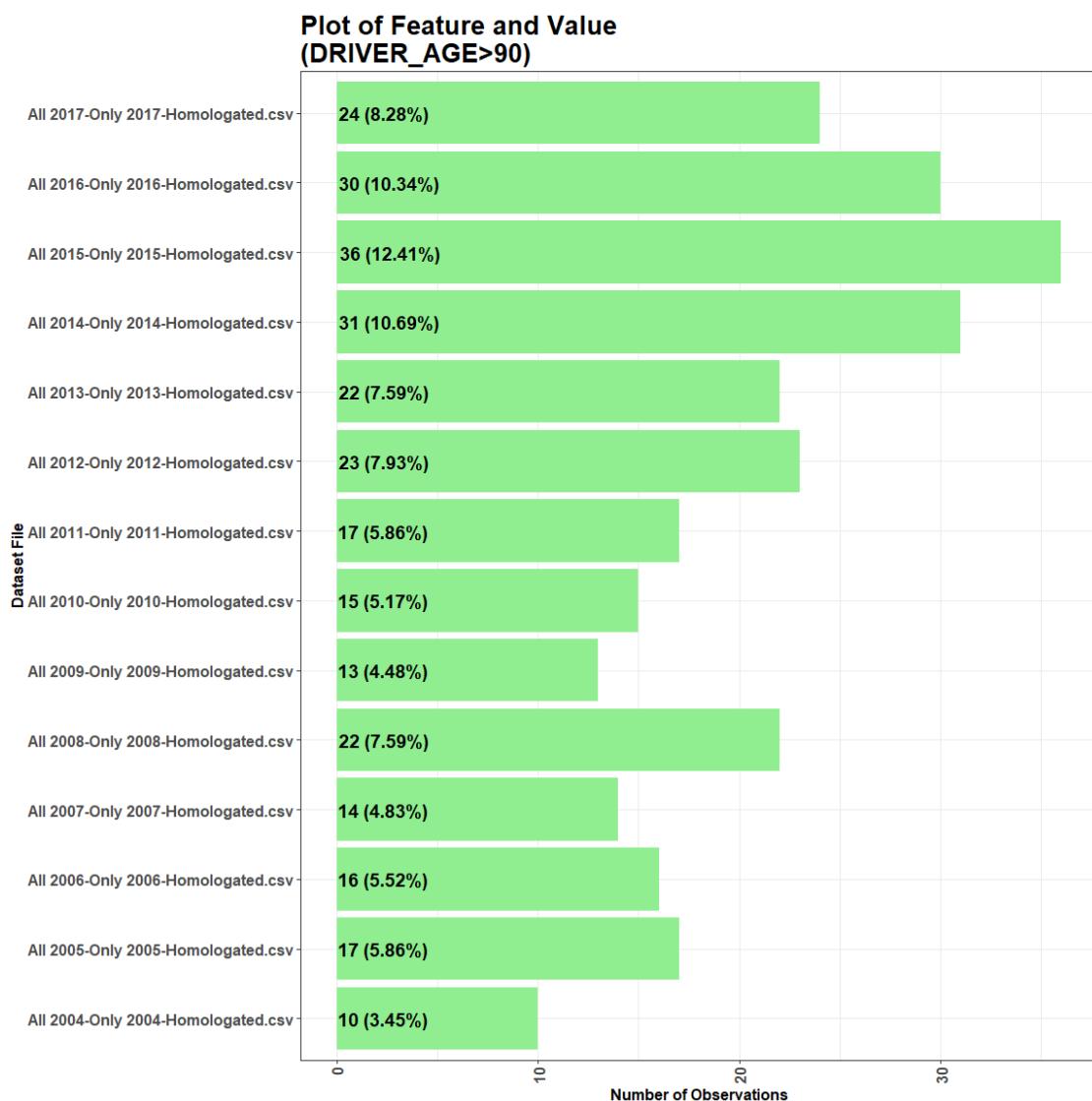


DATASET FILE	COUNTER OF (DRIVER_AGE<0)	Percentage
All 2015-Only 2015-Homologated.csv	2	100

4.6 DRIVER_AGE > “90”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_AGE>90)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 10 17  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 16 14  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
```

```
##          22          13
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          15          17
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          23          22
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          31          36
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          30          24
```

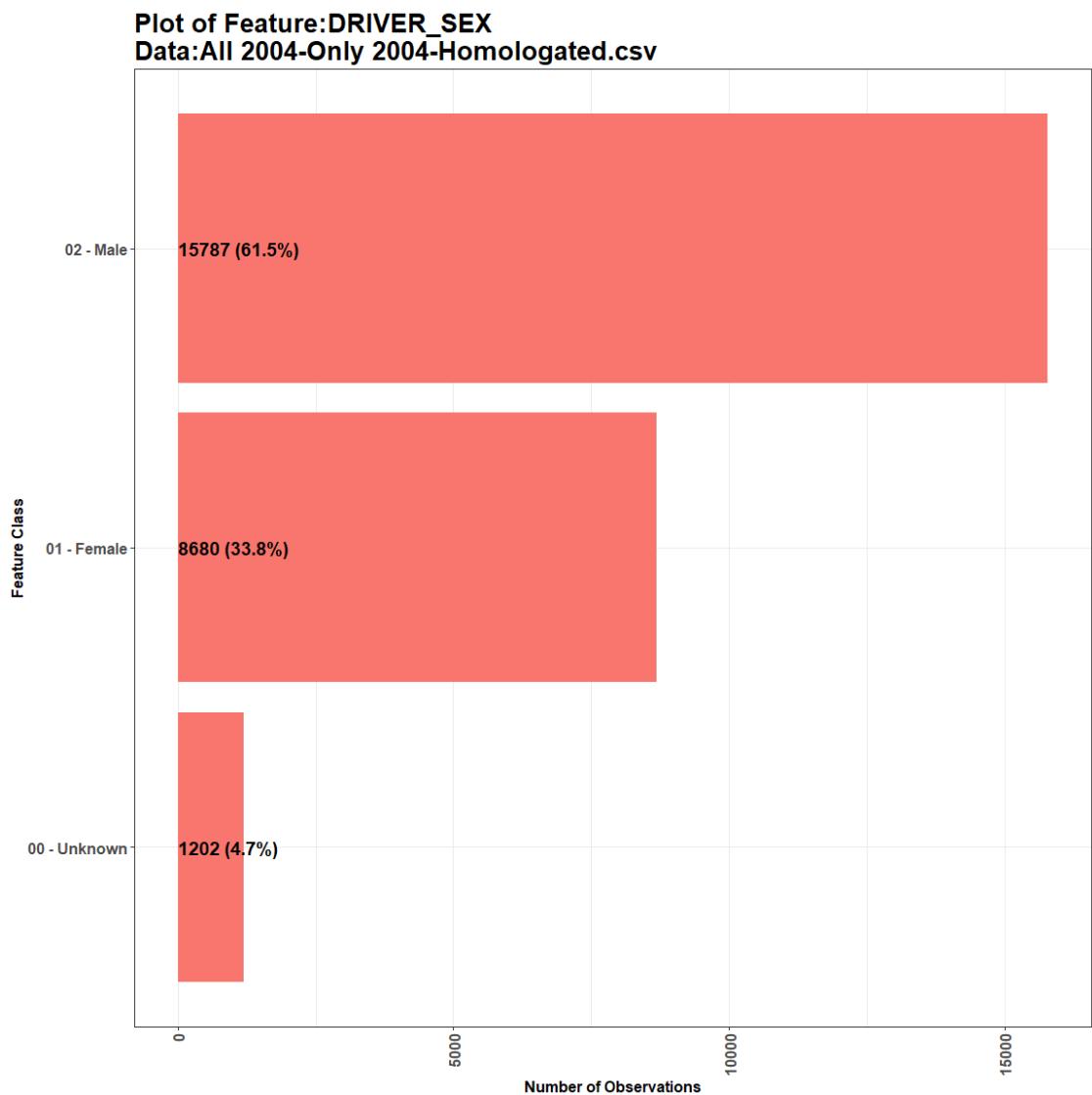


DATASET FILE	COUNTER OF (DRIVER_AGE>90)	Percentage
All 2004-Only 2004-Homologated.csv	10	3.448
All 2005-Only 2005-Homologated.csv	17	5.862
All 2006-Only 2006-Homologated.csv	16	5.517

All 2007-Only 2007-Homologated.csv	14	4.828
All 2008-Only 2008-Homologated.csv	22	7.586
All 2009-Only 2009-Homologated.csv	13	4.483
All 2010-Only 2010-Homologated.csv	15	5.172
All 2011-Only 2011-Homologated.csv	17	5.862
All 2012-Only 2012-Homologated.csv	23	7.931
All 2013-Only 2013-Homologated.csv	22	7.586
All 2014-Only 2014-Homologated.csv	31	10.690
All 2015-Only 2015-Homologated.csv	36	12.414
All 2016-Only 2016-Homologated.csv	30	10.345
All 2017-Only 2017-Homologated.csv	24	8.276

5. Driver Sex (DRIVER_SEX)

```
##  
## -----  
## CHECKING FEATURE:DRIVER_SEX  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 3  
##  
## TOP 100 FEATURES OF DRIVER_SEX  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown      1202      4.683  
## 01 - Female        8680     33.815  
## 02 - Male          15787     61.502
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_SEX  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 3  

##  

## TOP 100 FEATURES OF DRIVER_SEX  

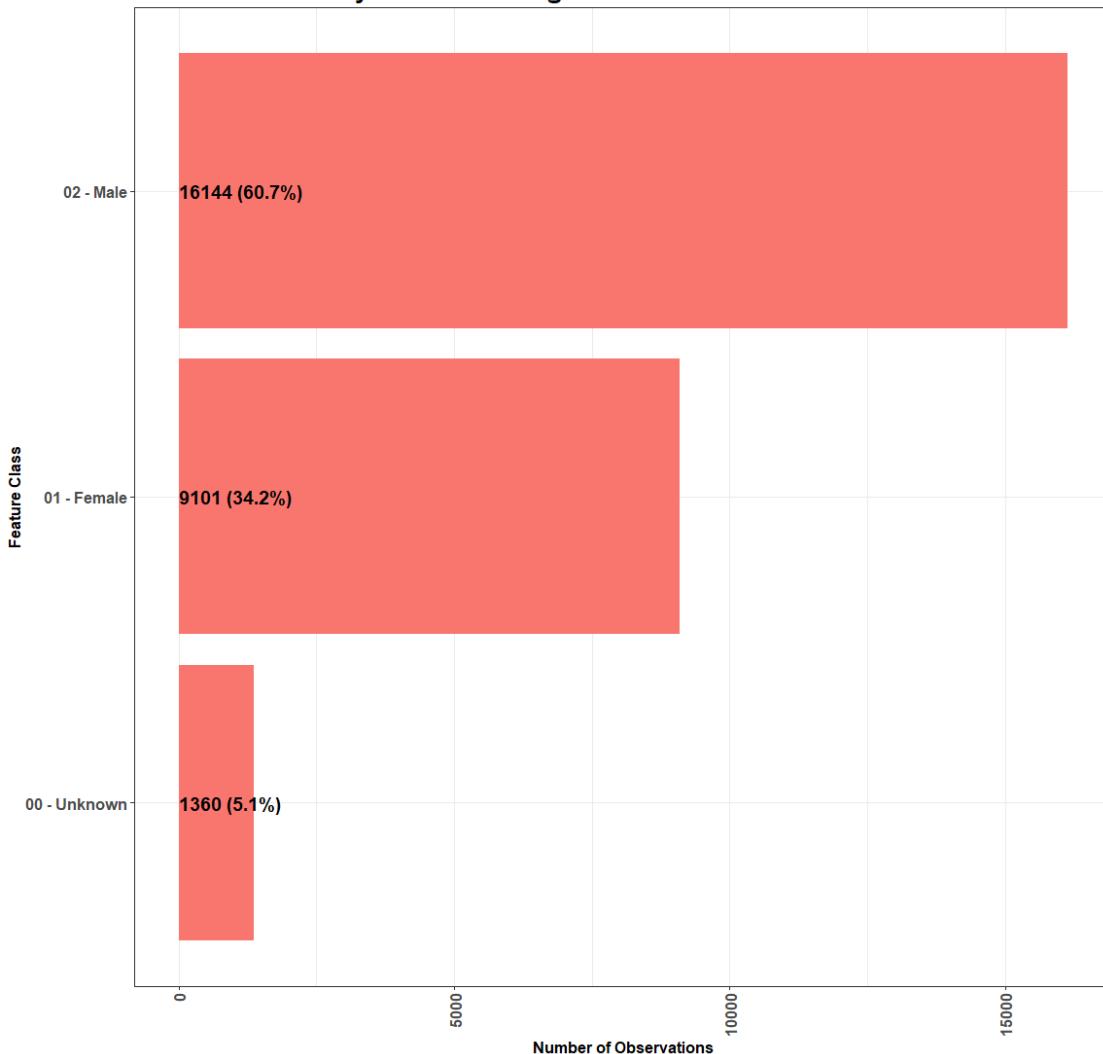
##  

## Feature Value   Counter   Percentage  

## -----
```

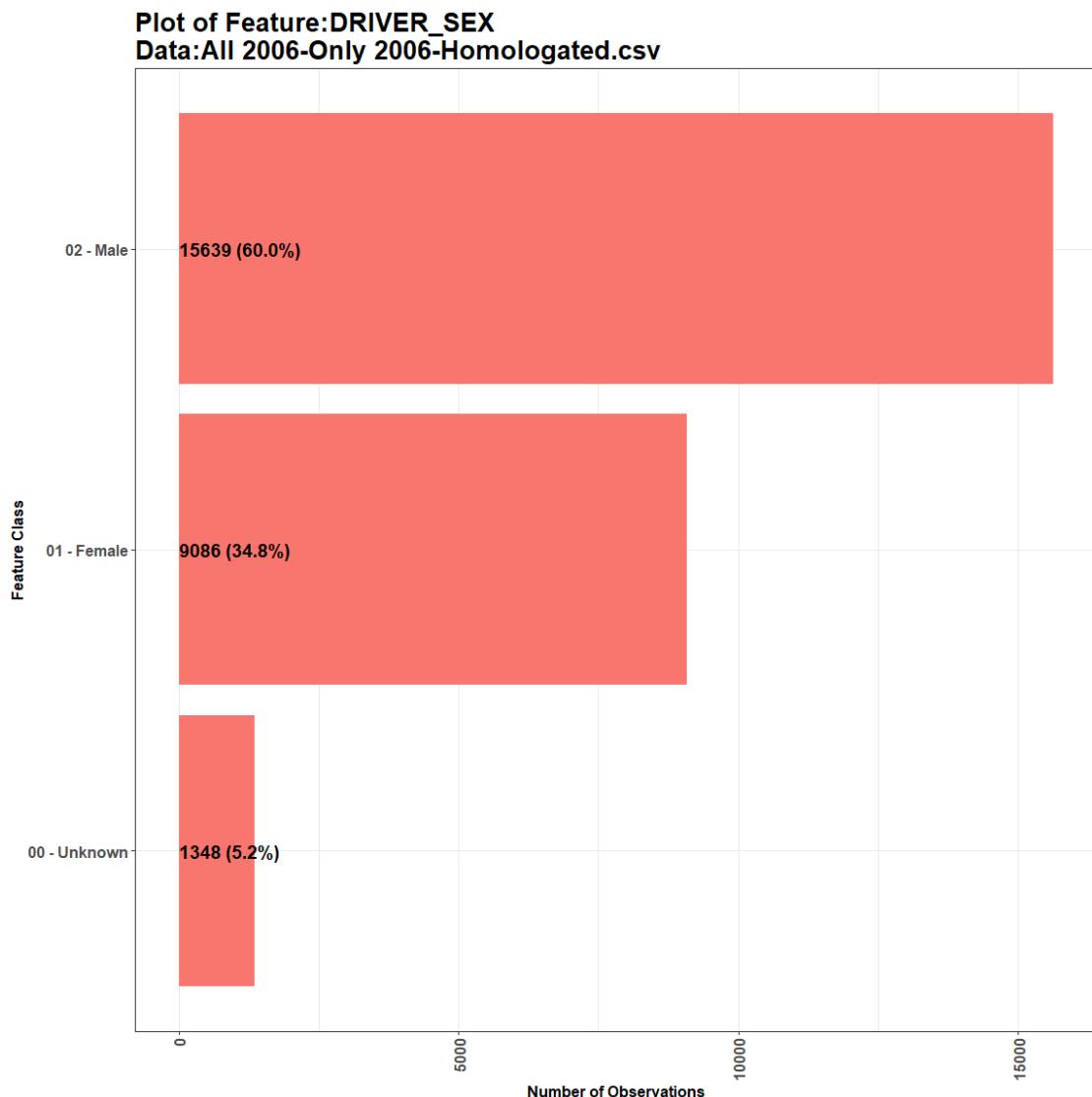
```
## 00 - Unknown      1360      5.112
## 01 - Female       9101     34.208
## 02 - Male        16144     60.680
```

Plot of Feature:DRIVER_SEX
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_SEX
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 3
##
```

```
## TOP 100 FEATURES OF DRIVER_SEX
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown      1348      5.17
## 01 - Female       9086     34.85
## 02 - Male         15639     59.98
```

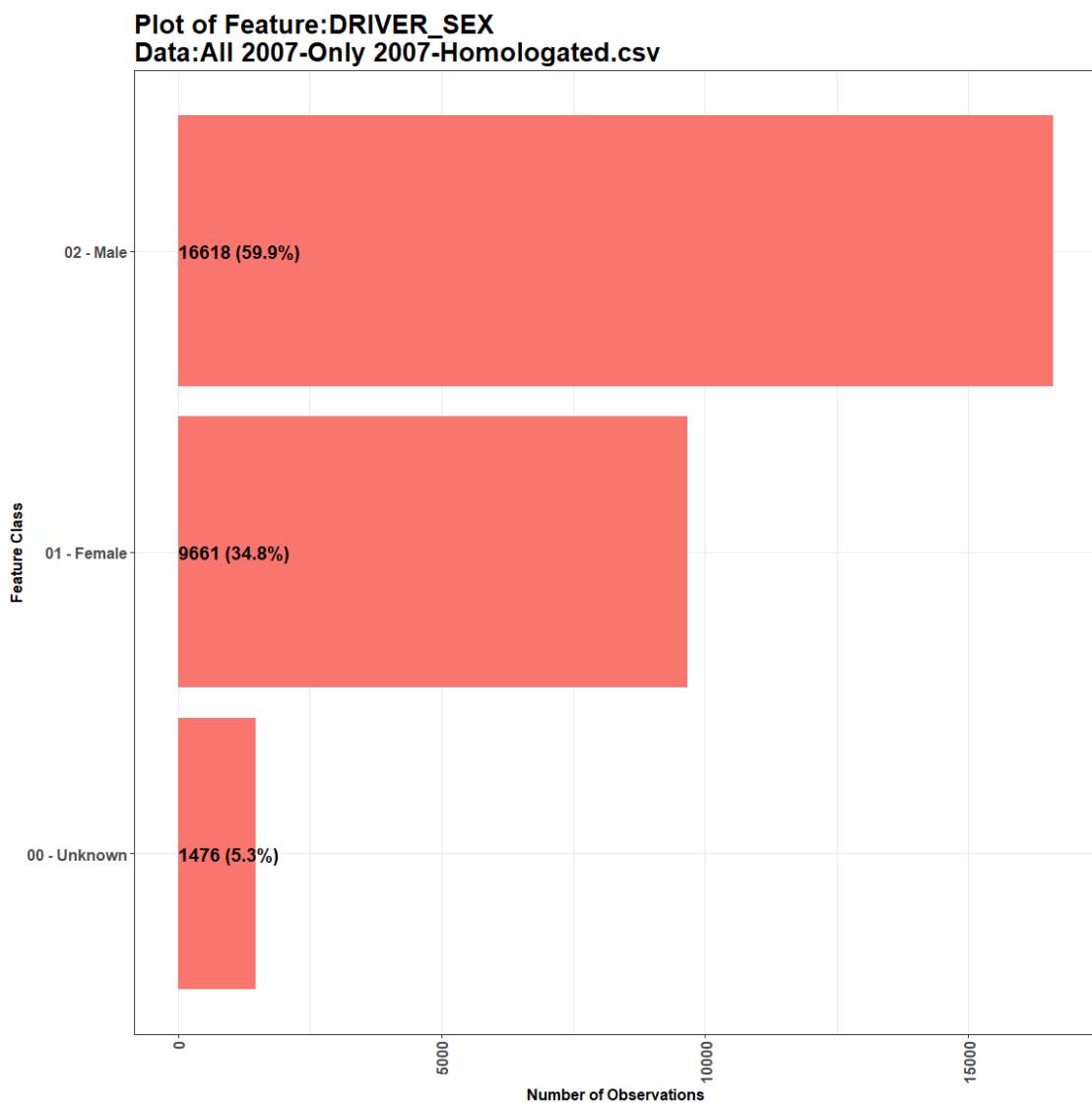


```
##
## -----
## CHECKING FEATURE:DRIVER_SEX
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
```

```

## Summary as Factor Feature:
## 
## Number of Features: 3
## 
## TOP 100 FEATURES OF DRIVER_SEX
## 
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown      1476        5.318
## 01 - Female        9661        34.808
## 02 - Male          16618       59.874

```



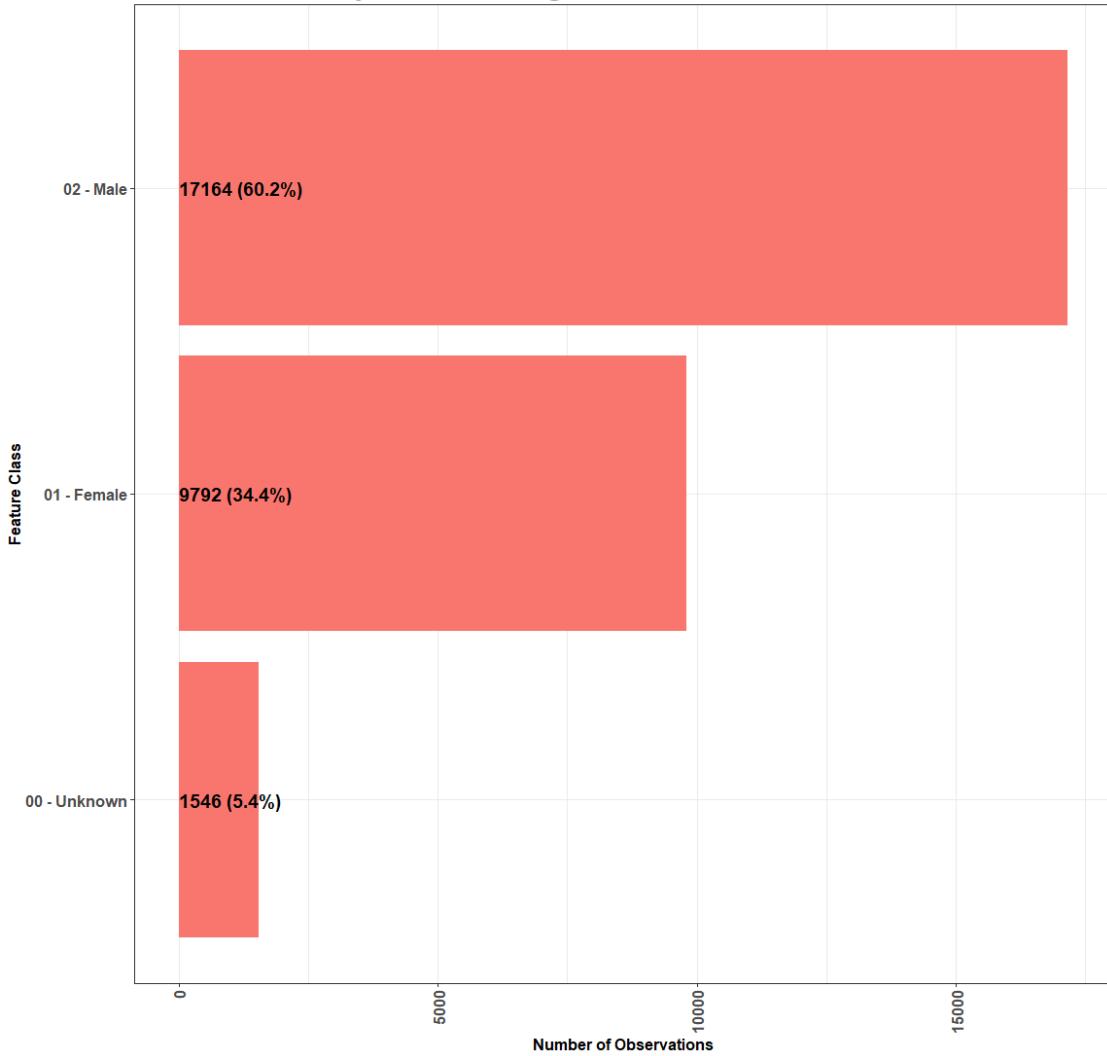
```

## 
## -----
## CHECKING FEATURE:DRIVER_SEX

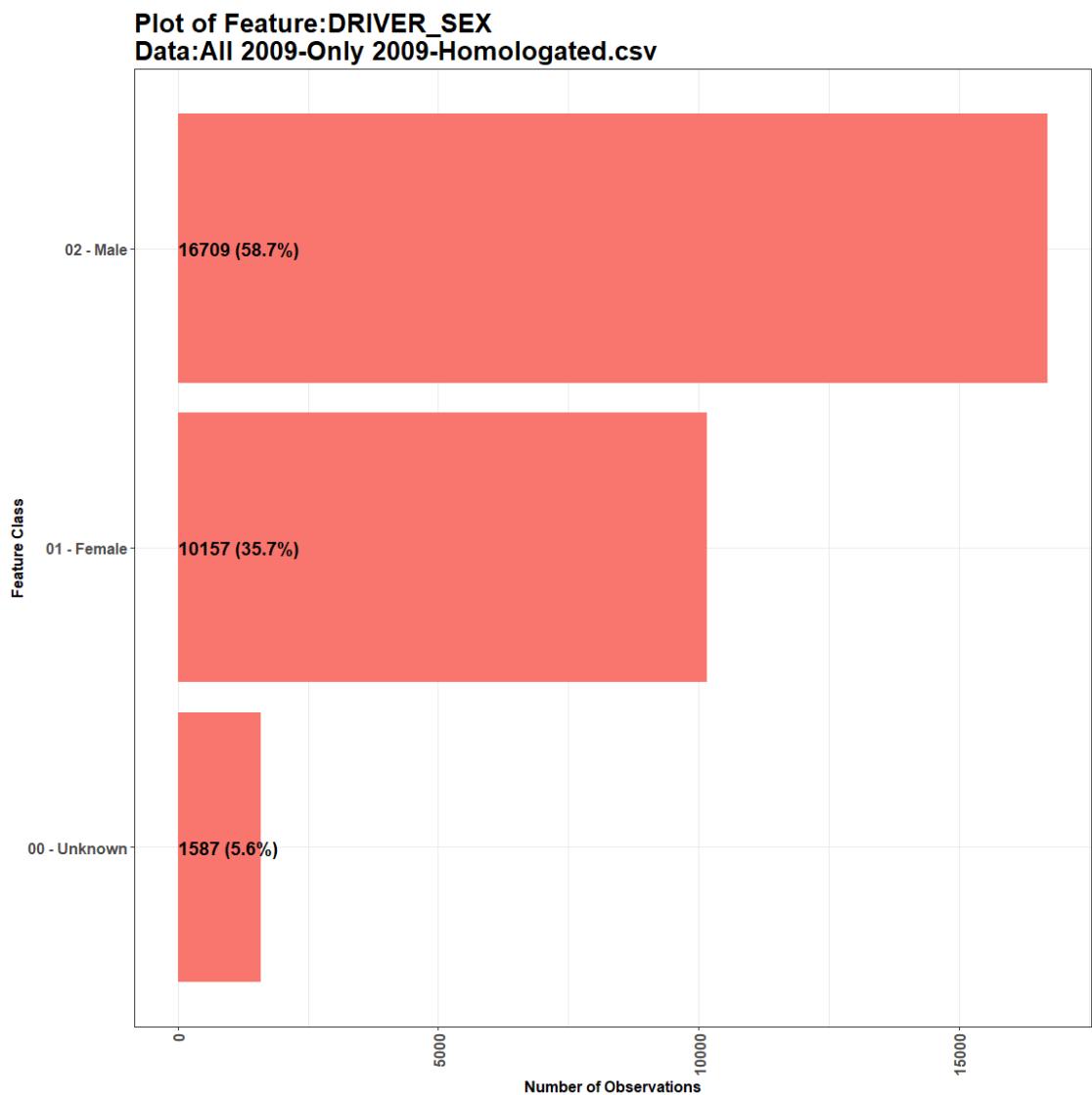
```

```
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 3
##
## TOP 100 FEATURES OF DRIVER_SEX
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown      1546        5.424
## 01 - Female        9792        34.355
## 02 - Male          17164       60.220
```

Plot of Feature:DRIVER_SEX
Data:All 2008-Only 2008-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:DRIVER_SEX  
## DATA:All 2009-Only 2009-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 3  
##  
## TOP 100 FEATURES OF DRIVER_SEX  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown      1587     5.578  
## 01 - Female       10157    35.697  
## 02 - Male         16709    58.725
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_SEX  

## DATA:All 2010-Only 2010-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 3  

##  

## TOP 100 FEATURES OF DRIVER_SEX  

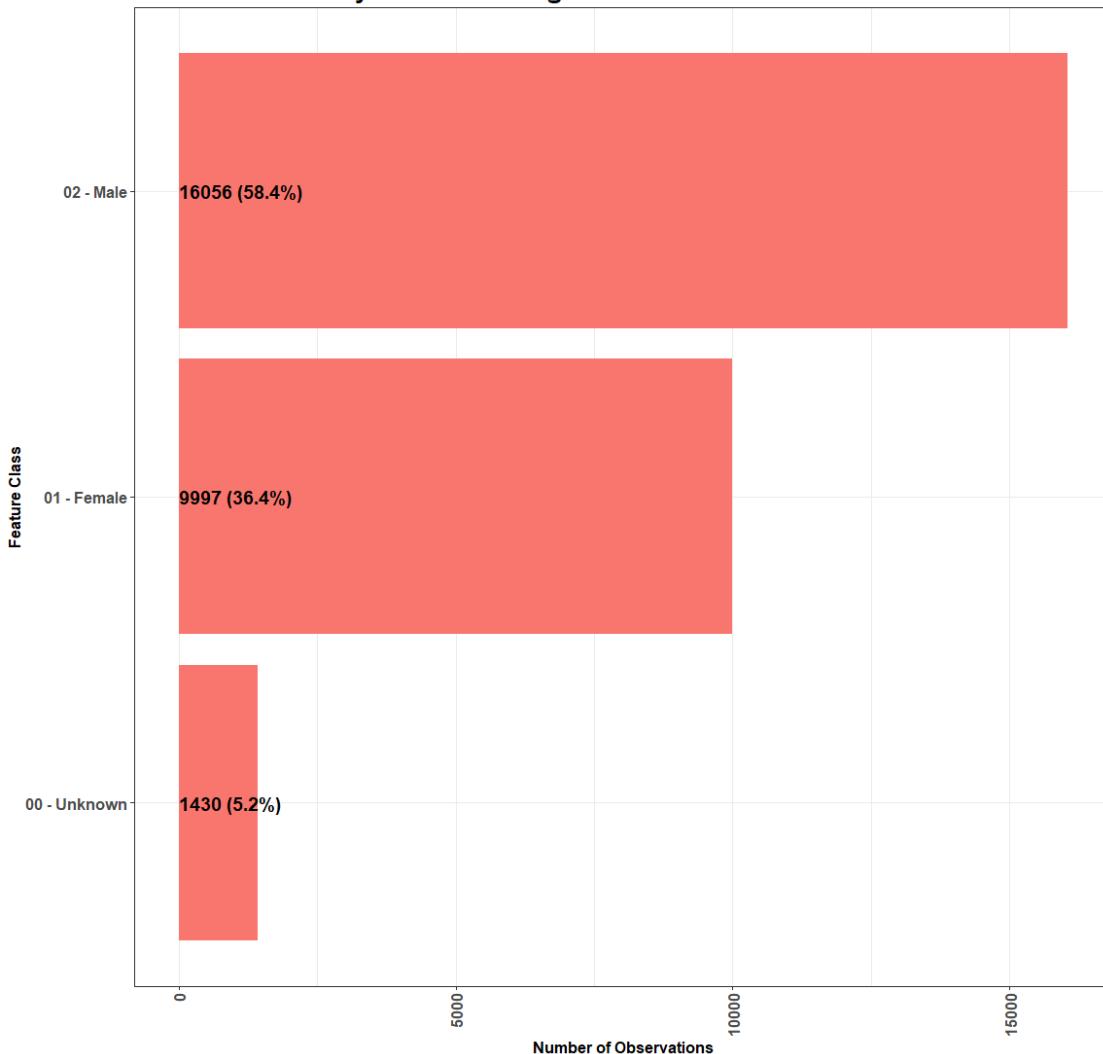
##  

## Feature Value   Counter   Percentage  

## -----
```

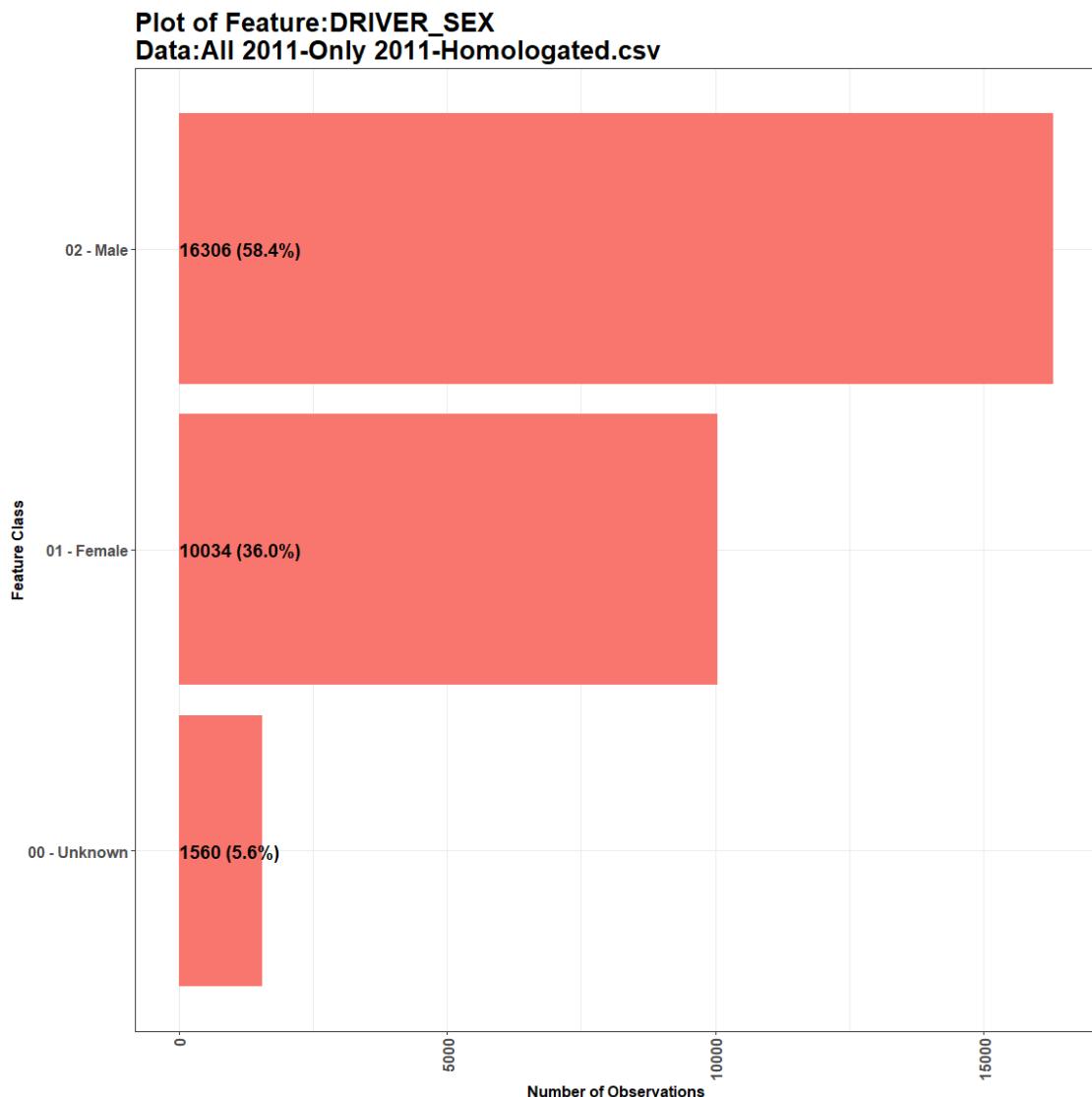
```
## 00 - Unknown      1430      5.203
## 01 - Female       9997     36.375
## 02 - Male        16056    58.422
```

Plot of Feature:DRIVER_SEX
Data:All 2010-Only 2010-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_SEX
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 3
##
```

```
## TOP 100 FEATURES OF DRIVER_SEX
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown      1560      5.591
## 01 - Female       10034     35.964
## 02 - Male         16306     58.444
```

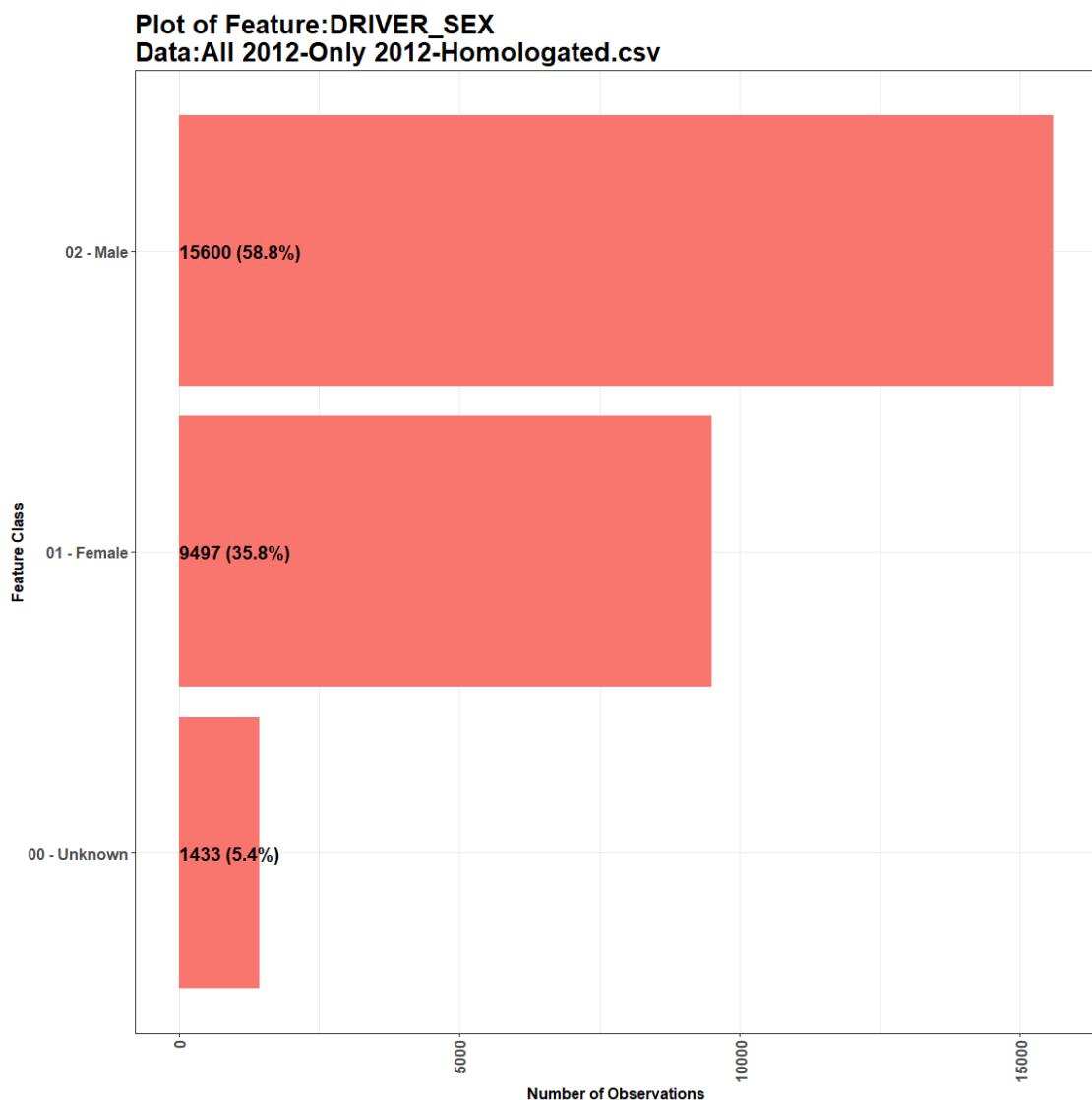


```
##
## -----
## CHECKING FEATURE:DRIVER_SEX
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
```

```

## Summary as Factor Feature:
## 
## Number of Features: 3
## 
## TOP 100 FEATURES OF DRIVER_SEX
## 
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown      1433        5.401
## 01 - Female        9497        35.797
## 02 - Male          15600       58.801

```



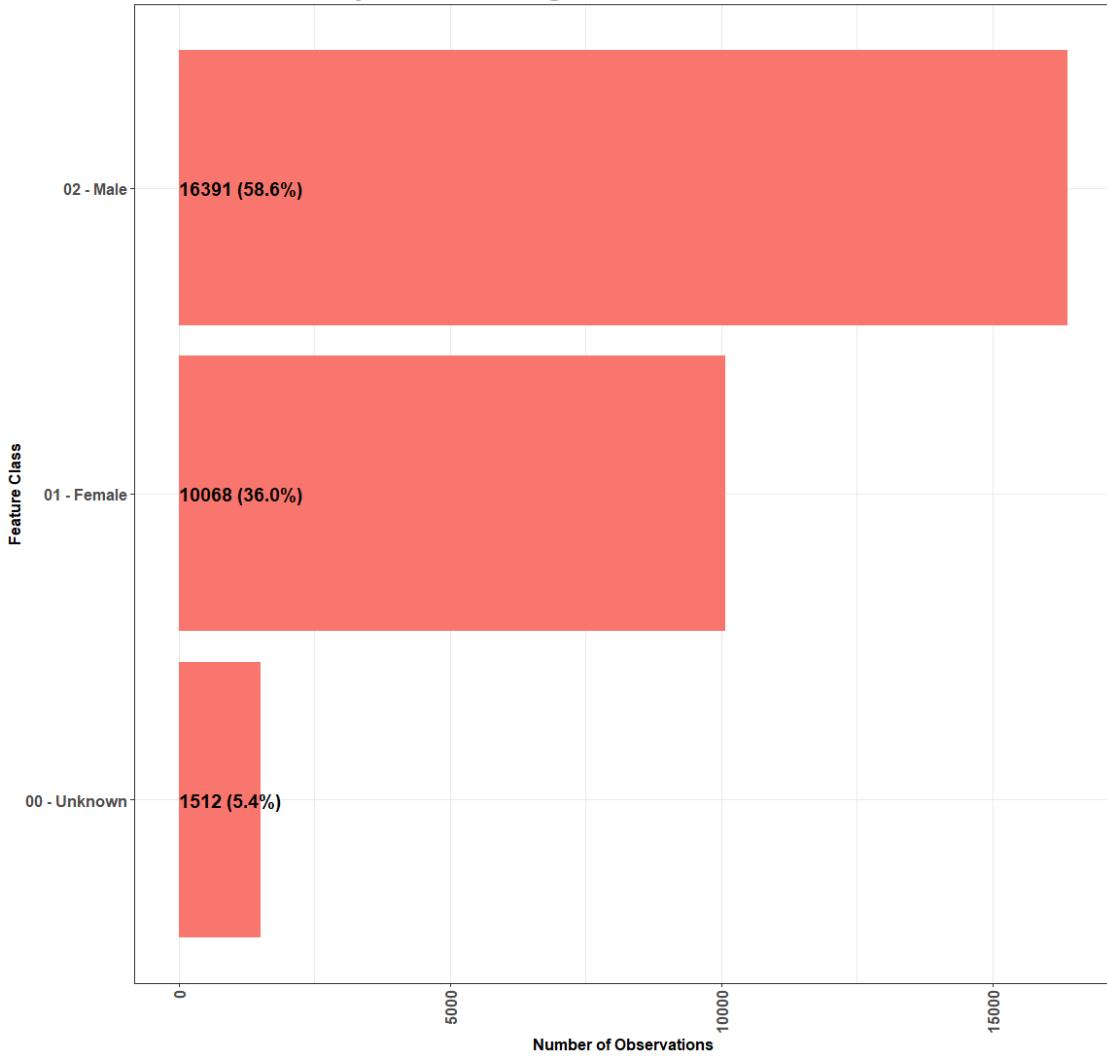
```

## 
## -----
## CHECKING FEATURE:DRIVER_SEX

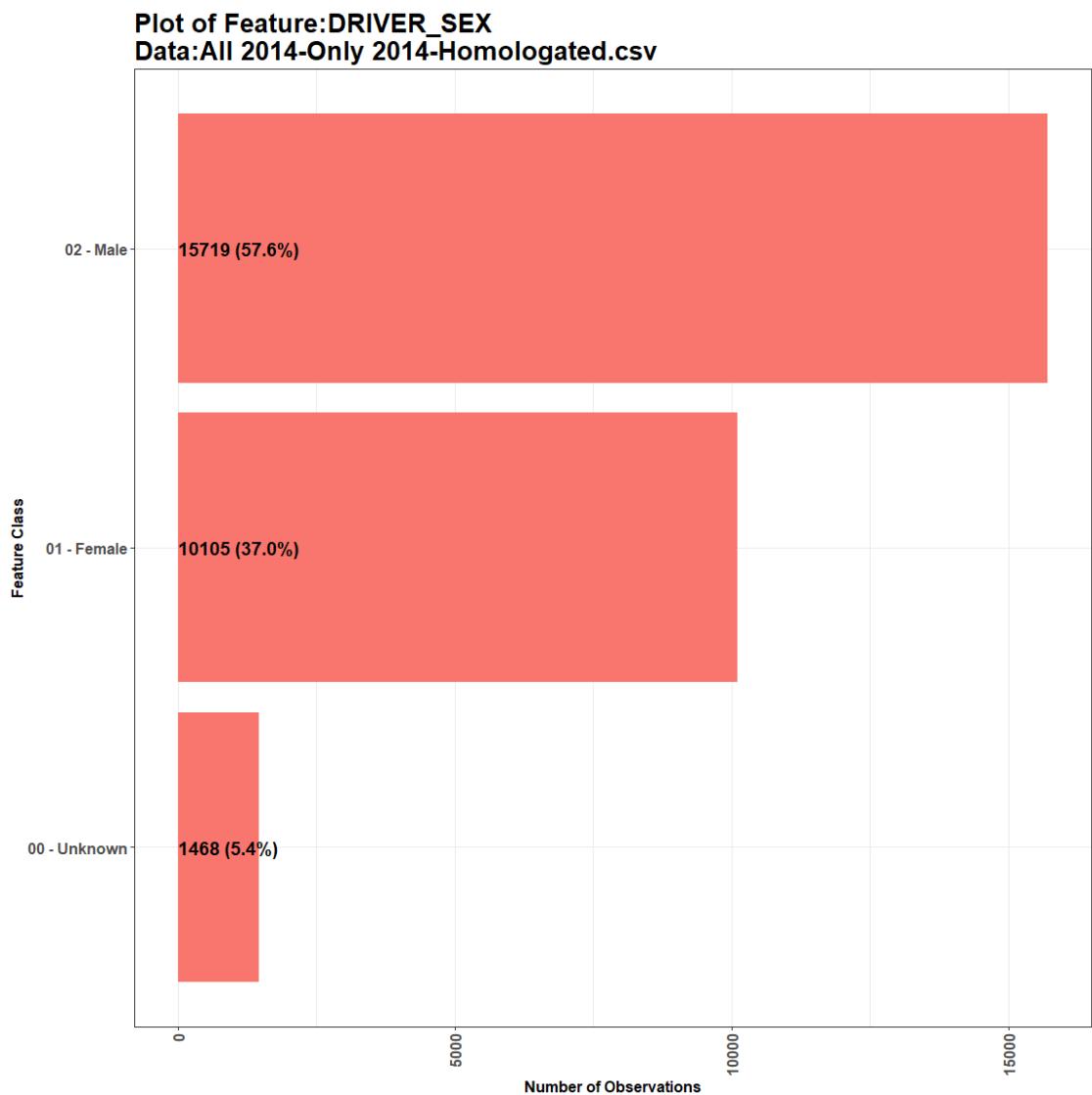
```

```
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 3
##
## TOP 100 FEATURES OF DRIVER_SEX
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown      1512        5.406
## 01 - Female       10068       35.994
## 02 - Male         16391       58.600
```

Plot of Feature:DRIVER_SEX
Data:All 2013-Only 2013-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:DRIVER_SEX  
## DATA:All 2014-Only 2014-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 3  
##  
## TOP 100 FEATURES OF DRIVER_SEX  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown      1468      5.379  
## 01 - Female       10105     37.026  
## 02 - Male         15719     57.596
```



```
##  

## -----  

## CHECKING FEATURE:DRIVER_SEX  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:11  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF DRIVER_SEX  

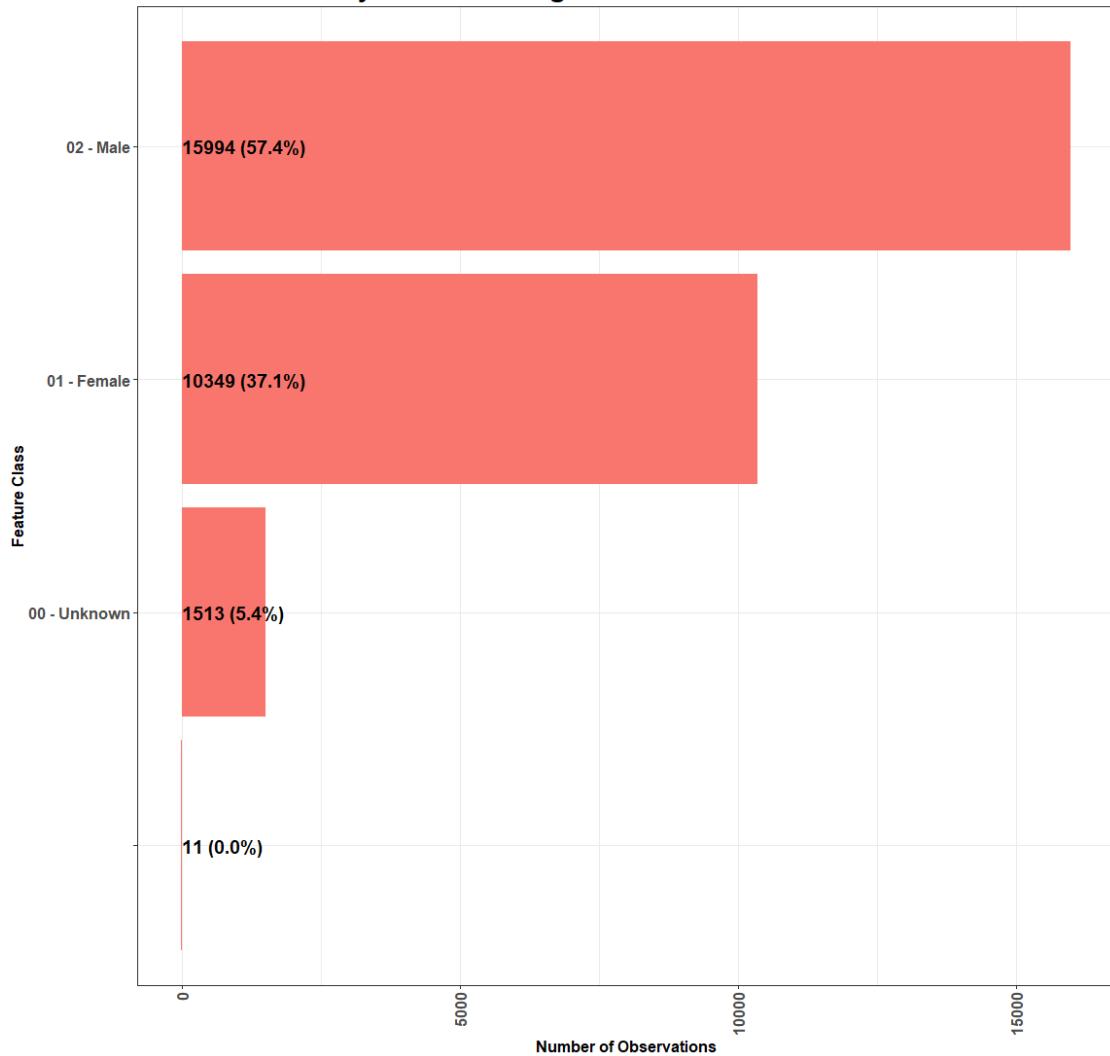
##  

## Feature Value   Counter   Percentage  

## -----
```

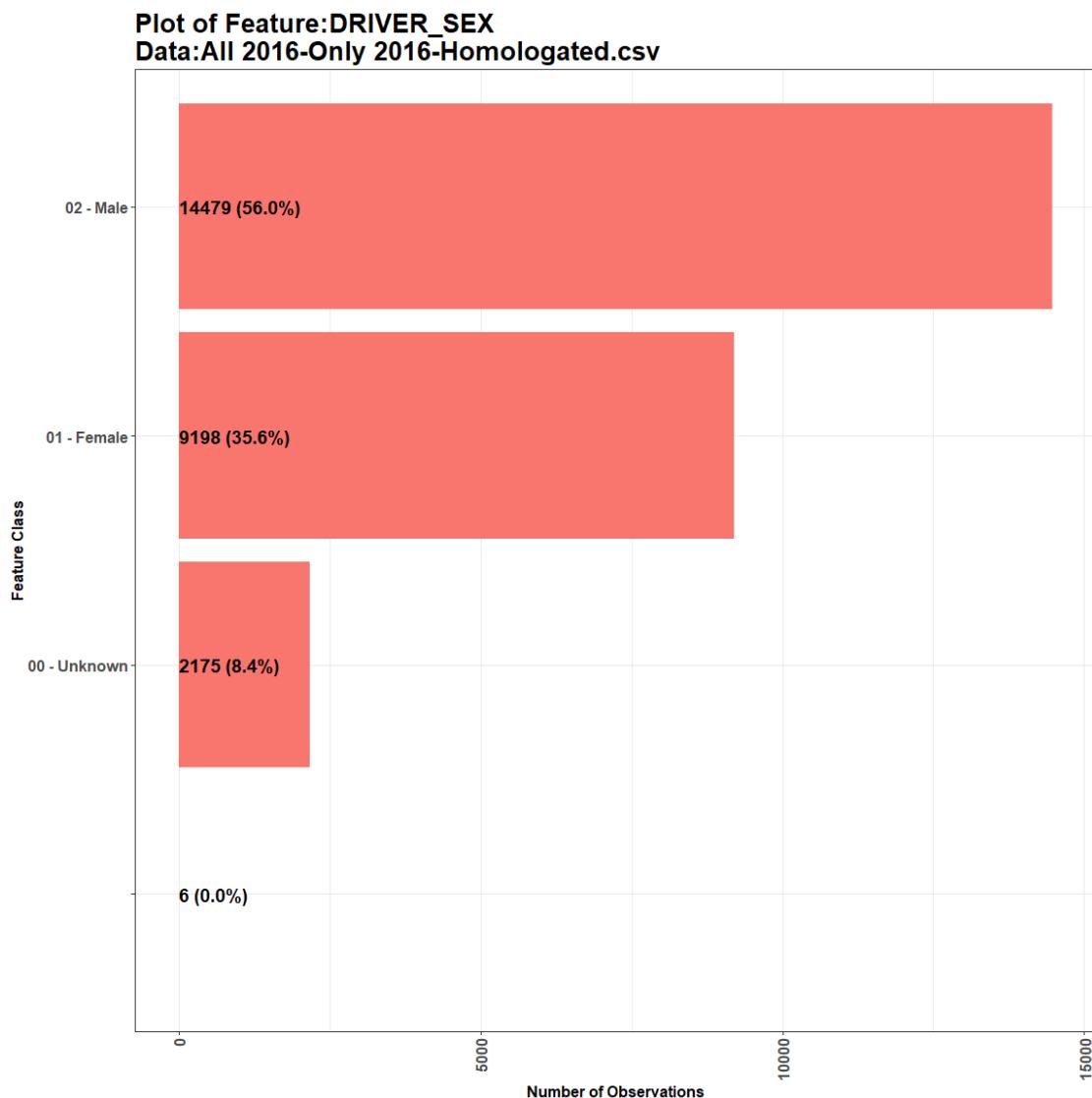
```
##                      11      0.0395
## 00 - Unknown       1513     5.4294
## 01 - Female        10349    37.1371
## 02 - Male          15994    57.3941
```

Plot of Feature:DRIVER_SEX
Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:DRIVER_SEX
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:6
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##  
## TOP 100 FEATURES OF DRIVER_SEX  
##  
## Feature Value Counter Percentage  
## -----  
## 6 0.0232  
## 00 - Unknown 2175 8.4113  
## 01 - Female 9198 35.5712  
## 02 - Male 14479 55.9943
```

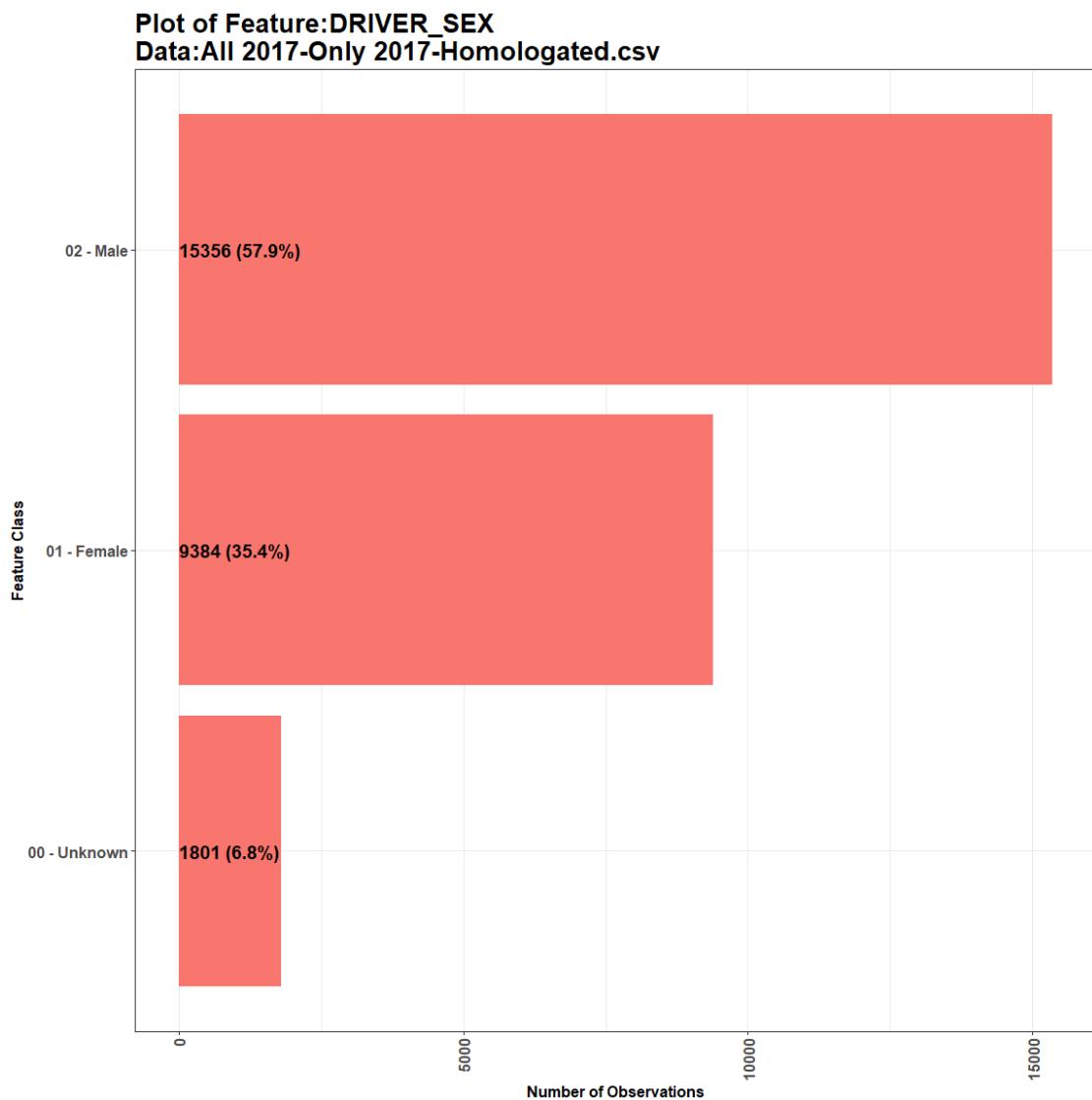


```
##  
## -----  
## CHECKING FEATURE:DRIVER_SEX  
## DATA:All 2017-Only 2017-Homologated.csv...  
##
```

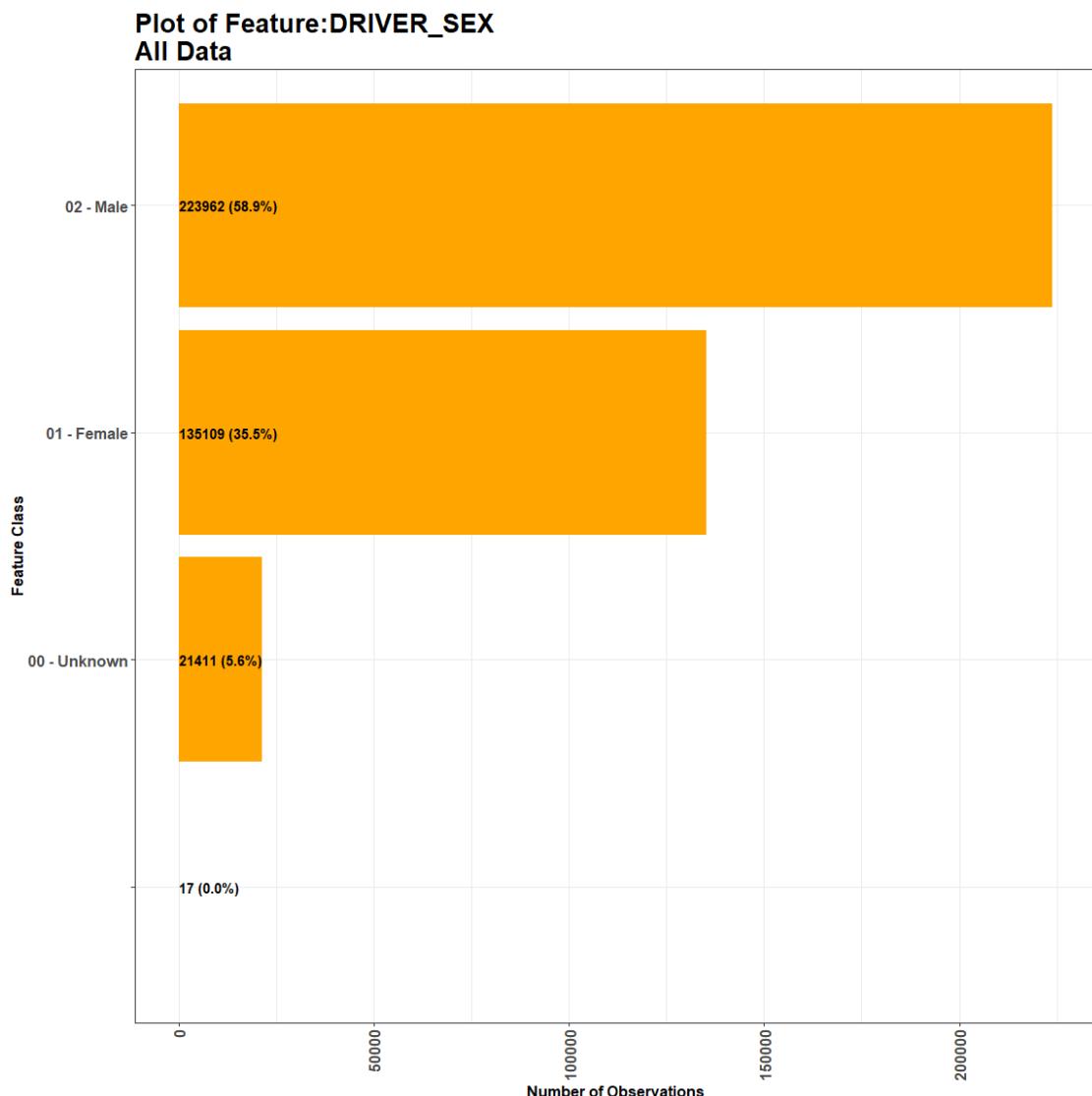
```

## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 3
##
## TOP 100 FEATURES OF DRIVER_SEX
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown      1801        6.786
## 01 - Female        9384        35.357
## 02 - Male          15356       57.858

```



```
##  
## =====  
## FINAL INFO CHECKING FEATURE:DRIVER_SEX  
## ALL DATA...  
## =====  
##  
## Number of Blank Values:17  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 4
```



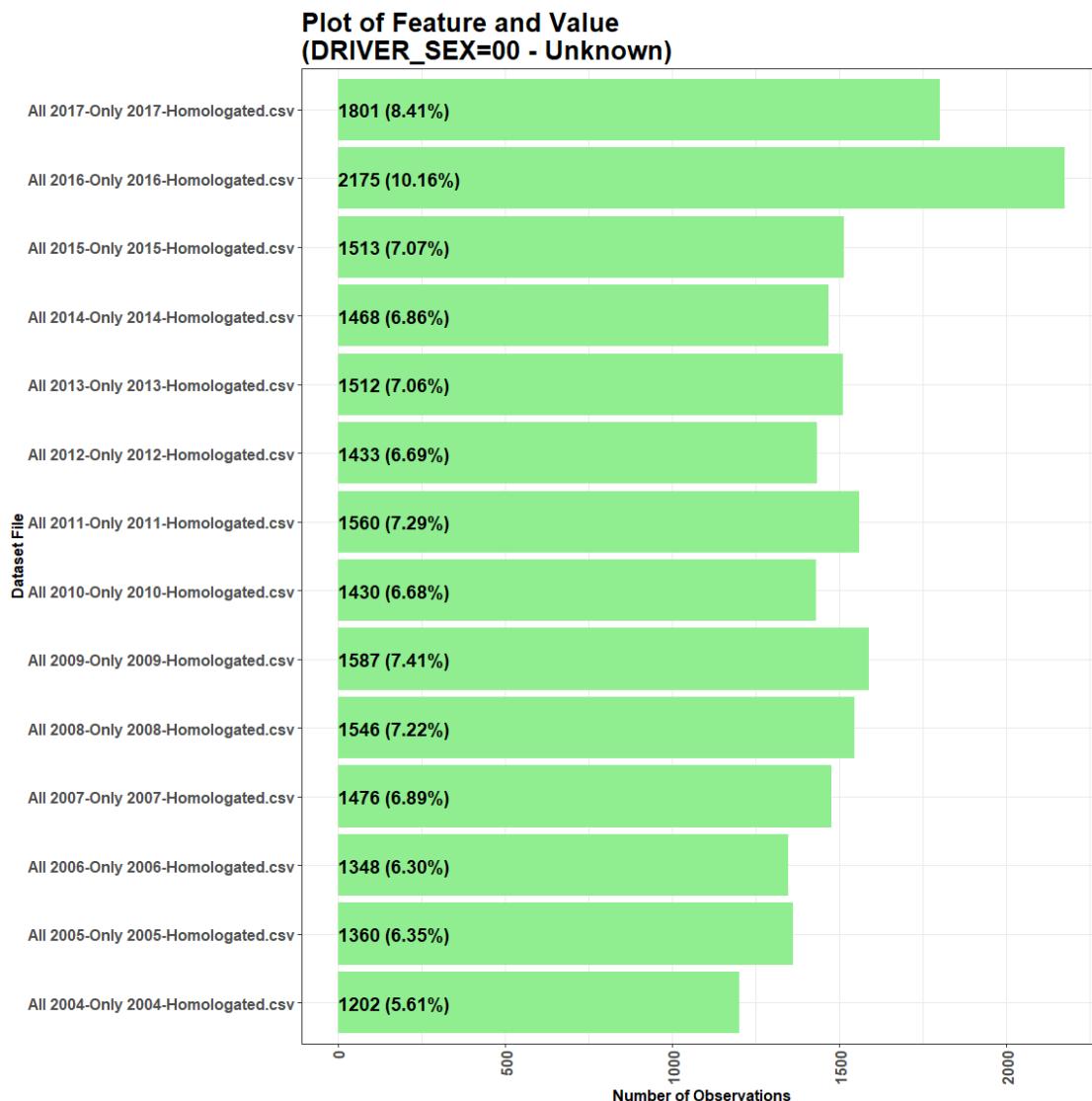
```
## [1] "TOP 100 FEATURES COUNTERS OF:DRIVER_SEX"
```

Feature Value	Counter	Percentage
	17	0.0045
00 - Unknown	21411	5.6271
01 - Female	135109	35.5084
02 - Male	223962	58.8601

5.1 DRIVER_SEX = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (DRIVER_SEX=00 - Unknown)  
##
```

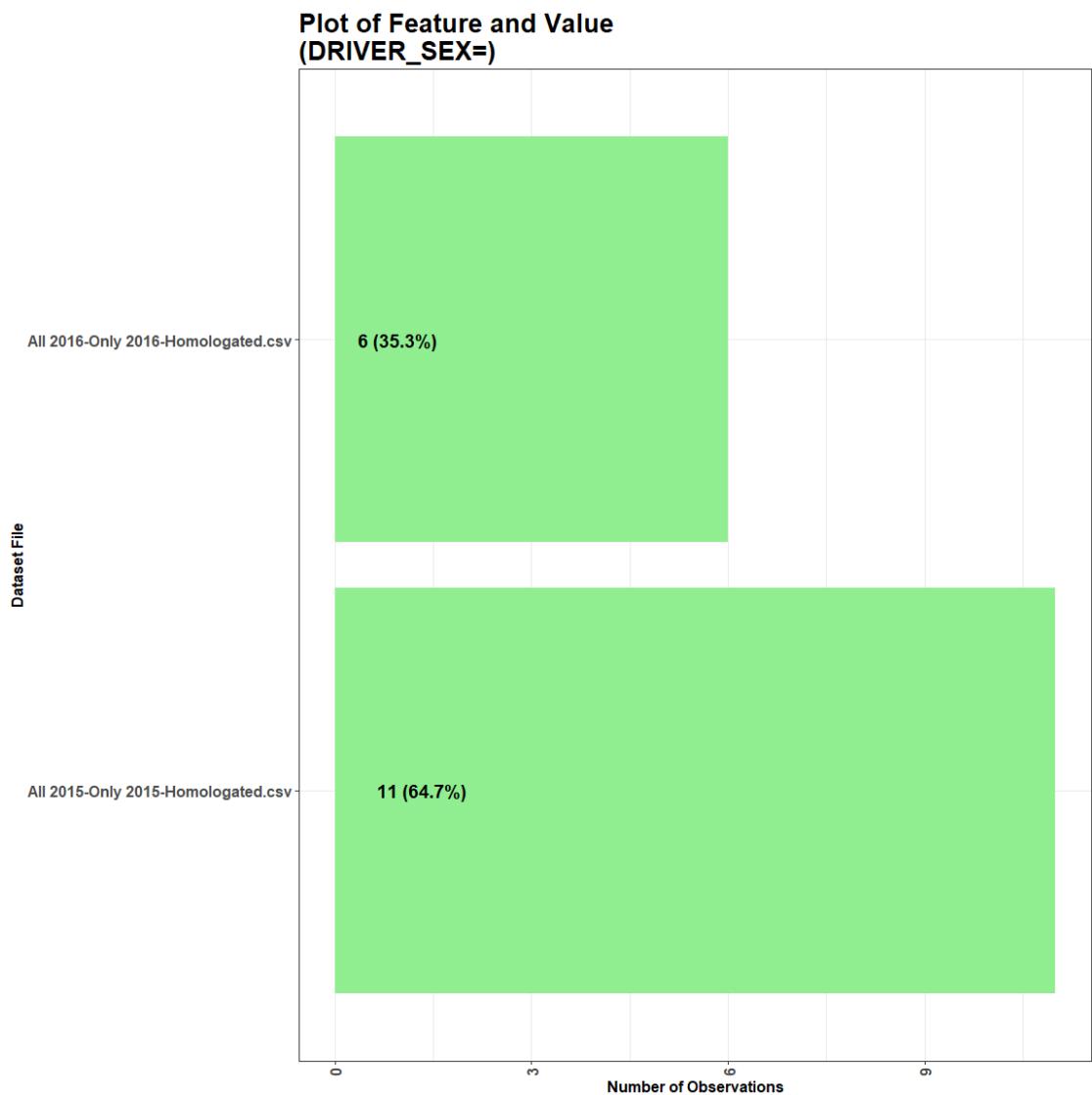
```
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 1202 1360
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 1348 1476
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 1546 1587
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 1430 1560
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 1433 1512
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 1468 1513
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 2175 1801
```



DATASET FILE	COUNTER OF (DRIVER_SEX=00 - Unknown)		Percentage
		Unknown	
All 2004-Only 2004-Homologated.csv		1202	5.614
All 2005-Only 2005-Homologated.csv		1360	6.352
All 2006-Only 2006-Homologated.csv		1348	6.296
All 2007-Only 2007-Homologated.csv		1476	6.894
All 2008-Only 2008-Homologated.csv		1546	7.221
All 2009-Only 2009-Homologated.csv		1587	7.412
All 2010-Only 2010-Homologated.csv		1430	6.679
All 2011-Only 2011-Homologated.csv		1560	7.286
All 2012-Only 2012-Homologated.csv		1433	6.693
All 2013-Only 2013-Homologated.csv		1512	7.062
All 2014-Only 2014-Homologated.csv		1468	6.856
All 2015-Only 2015-Homologated.csv		1513	7.066
All 2016-Only 2016-Homologated.csv		2175	10.158
All 2017-Only 2017-Homologated.csv		1801	8.412

5.2 DRIVER_SEX = "" (Blank)

```
##  
## ======  
## CHECKING FEATURE AND VALUE (DRIVER_SEX=)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv All 2016-Only 2016-Homologated.csv  
##
```

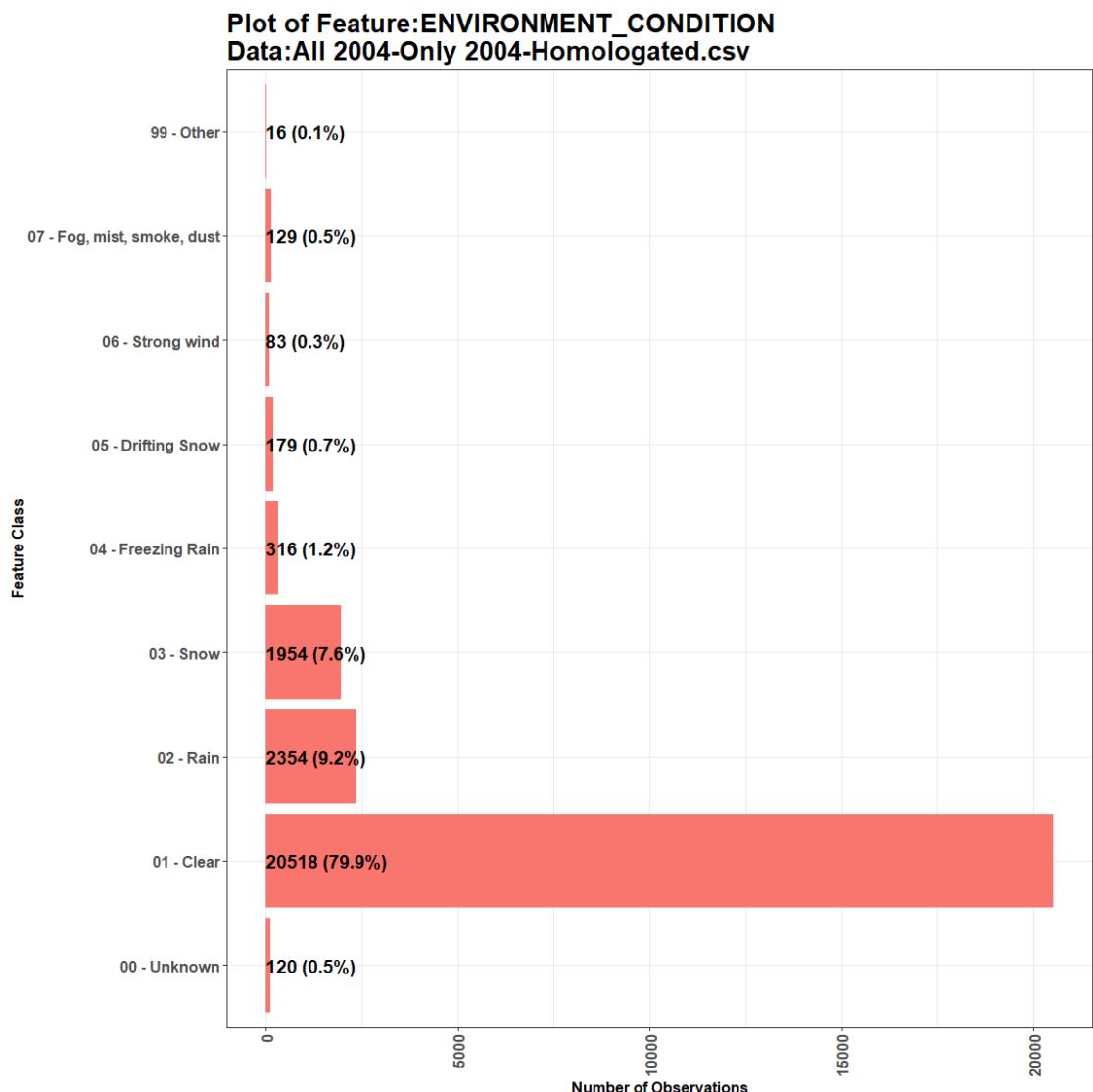


DATASET FILE	COUNTER OF (DRIVER_SEX=)	Percentage
All 2015-Only 2015-Homologated.csv	11	64.71
All 2016-Only 2016-Homologated.csv	6	35.29

6. Environment Condition (ENVIRONMENT_CONDITION)

```
##  
## -----  
## CHECKING FEATURE:ENVIRONMENT_CONDITION  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:
```

```
##  
## Number of Features: 9  
##  
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 120 0.4675  
## 01 - Clear 20518 79.9330  
## 02 - Rain 2354 9.1706  
## 03 - Snow 1954 7.6123  
## 04 - Freezing Rain 316 1.2311  
## 05 - Drifting Snow 179 0.6973  
## 06 - Strong wind 83 0.3233  
## 07 - Fog, mist, smoke, dust 129 0.5026  
## 99 - Other 16 0.0623
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

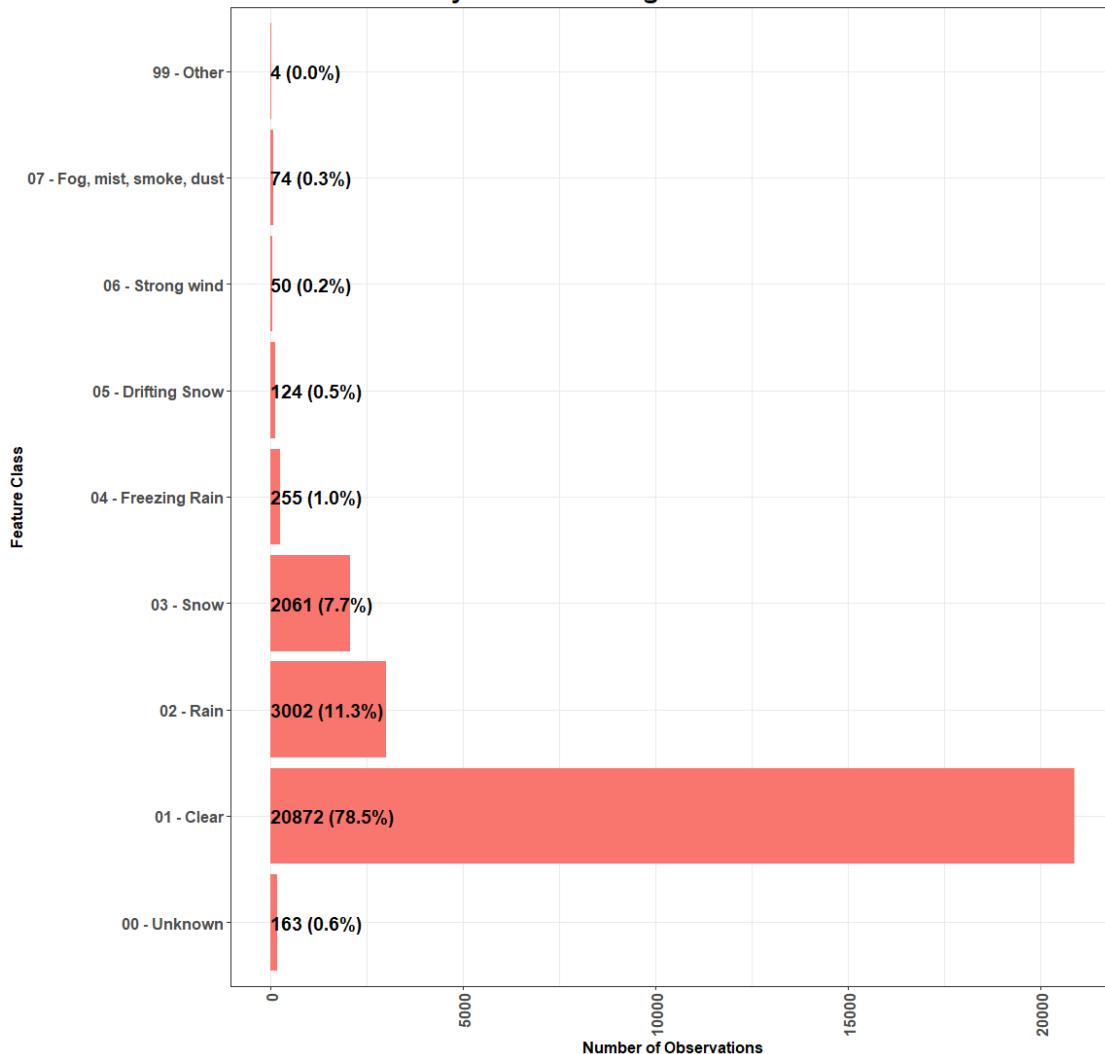
##  

## Feature Value Counter Percentage  

## -----
```

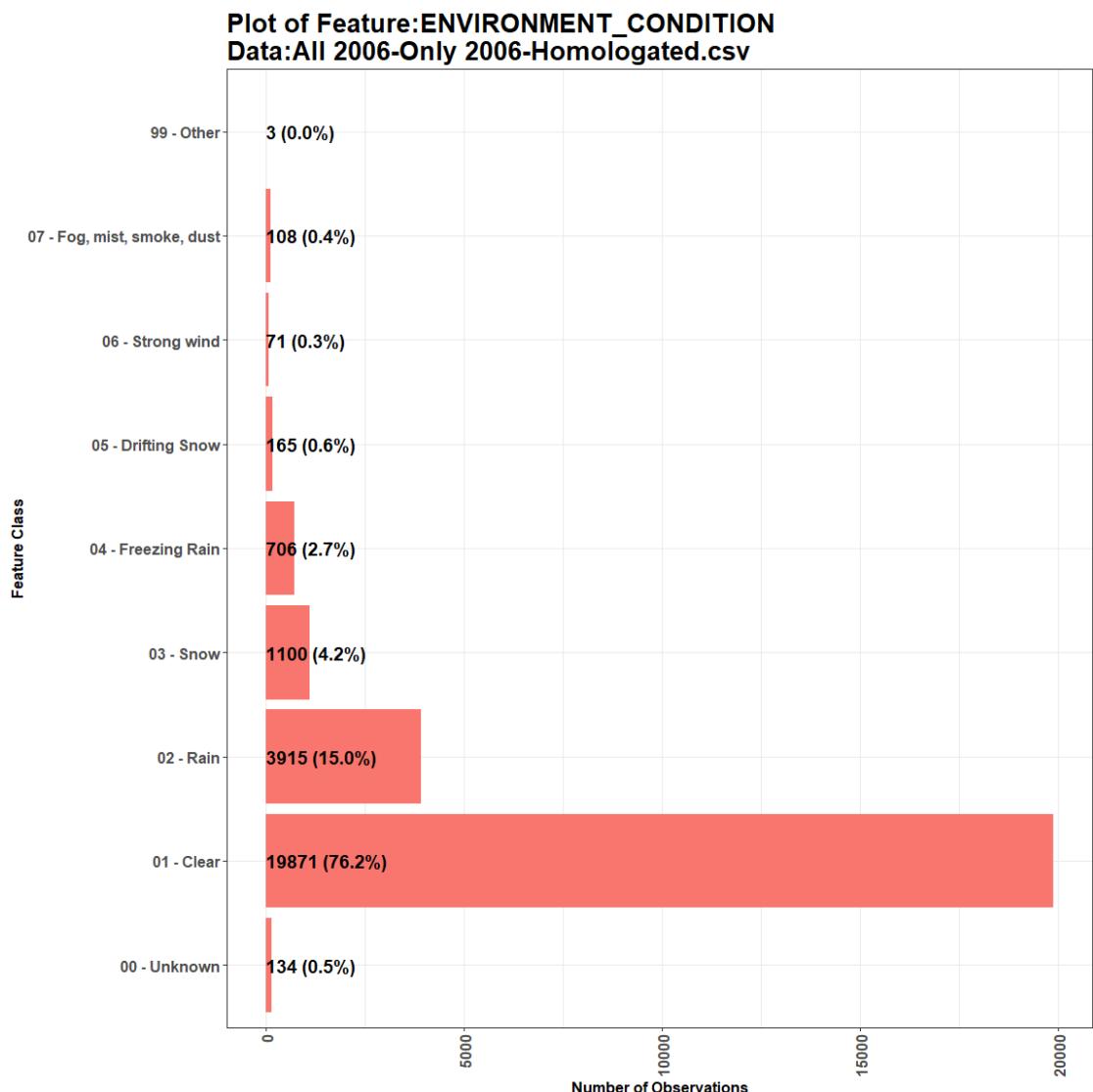
## 00 - Unknown	163	0.6127
## 01 - Clear	20872	78.4514
## 02 - Rain	3002	11.2836
## 03 - Snow	2061	7.7467
## 04 - Freezing Rain	255	0.9585
## 05 - Drifting Snow	124	0.4661
## 06 - Strong wind	50	0.1879
## 07 - Fog, mist, smoke, dust	74	0.2781
## 99 - Other	4	0.0150

Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ENVIRONMENT_CONDITION
## DATA:All 2006-Only 2006-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION
##
## Feature Value          Counter   Percentage
## ----- - -----
## 00 - Unknown           134       0.5139
## 01 - Clear              19871     76.2129
## 02 - Rain                3915      15.0155
## 03 - Snow                1100      4.2189
## 04 - Freezing Rain       706       2.7078
## 05 - Drifting Snow       165       0.6328
## 06 - Strong wind         71        0.2723
## 07 - Fog, mist, smoke, dust 108       0.4142
## 99 - Other                 3        0.0115
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

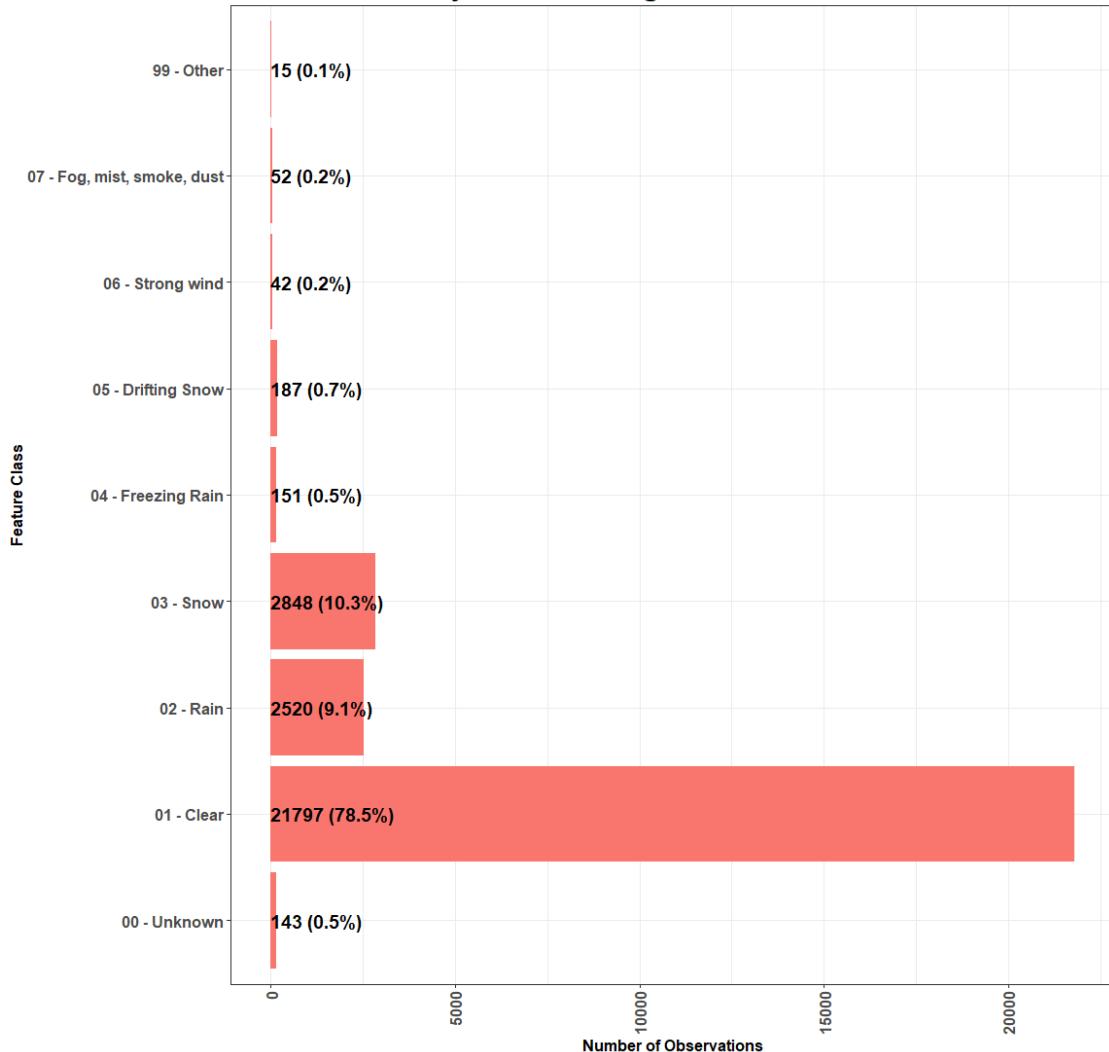
##  

## Feature Value Counter Percentage  

## -----
```

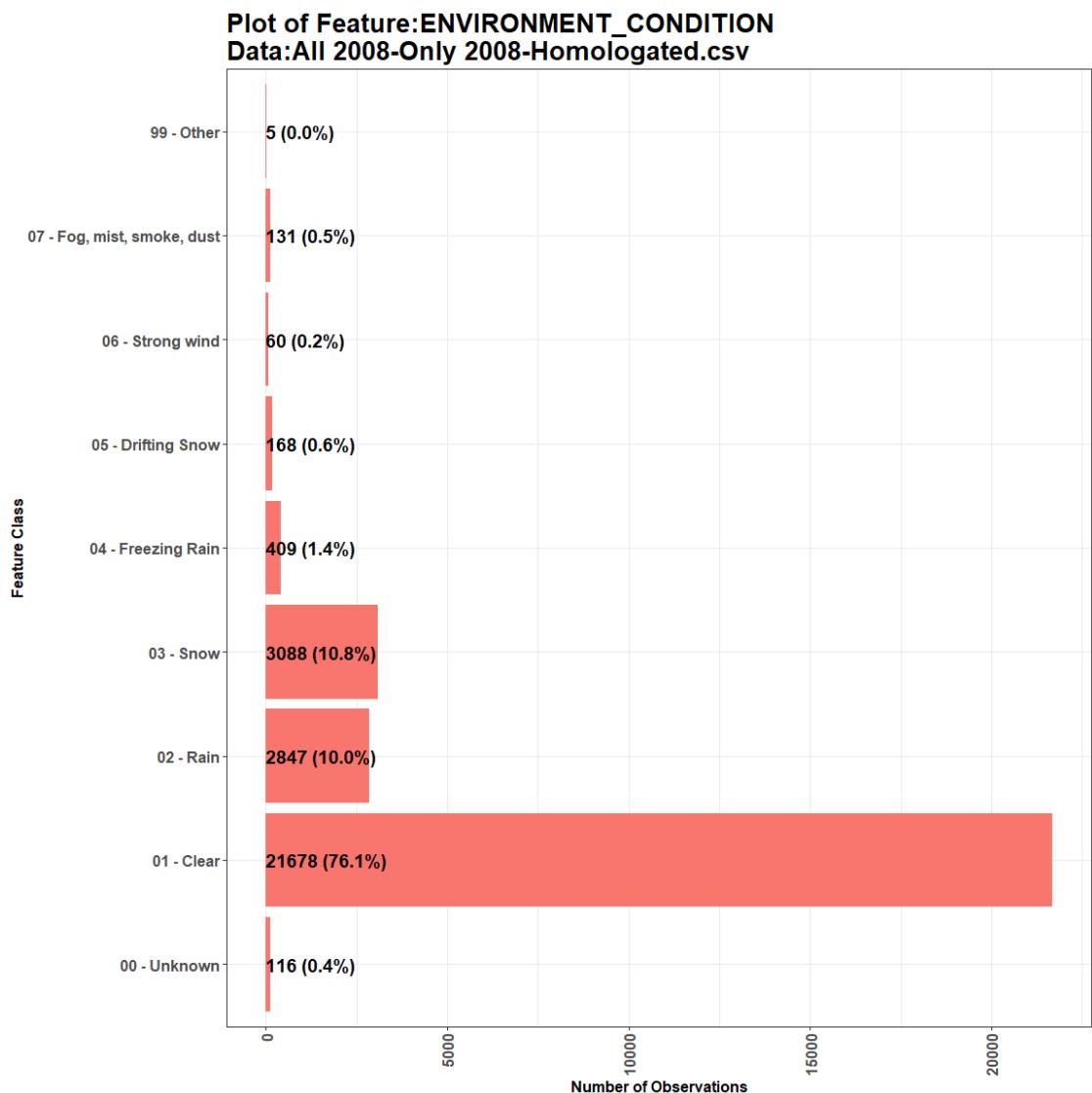
## 00 - Unknown	143	0.5152
## 01 - Clear	21797	78.5336
## 02 - Rain	2520	9.0794
## 03 - Snow	2848	10.2612
## 04 - Freezing Rain	151	0.5440
## 05 - Drifting Snow	187	0.6738
## 06 - Strong wind	42	0.1513
## 07 - Fog, mist, smoke, dust	52	0.1874
## 99 - Other	15	0.0540

Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2007-Only 2007-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ENVIRONMENT_CONDITION
## DATA:All 2008-Only 2008-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION
##
## Feature Value          Counter   Percentage
## ----- - -----
## 00 - Unknown           116       0.4070
## 01 - Clear              21678      76.0578
## 02 - Rain                2847       9.9888
## 03 - Snow               3088      10.8343
## 04 - Freezing Rain       409        1.4350
## 05 - Drifting Snow       168        0.5894
## 06 - Strong wind          60        0.2105
## 07 - Fog, mist, smoke, dust 131        0.4596
## 99 - Other                  5        0.0175
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

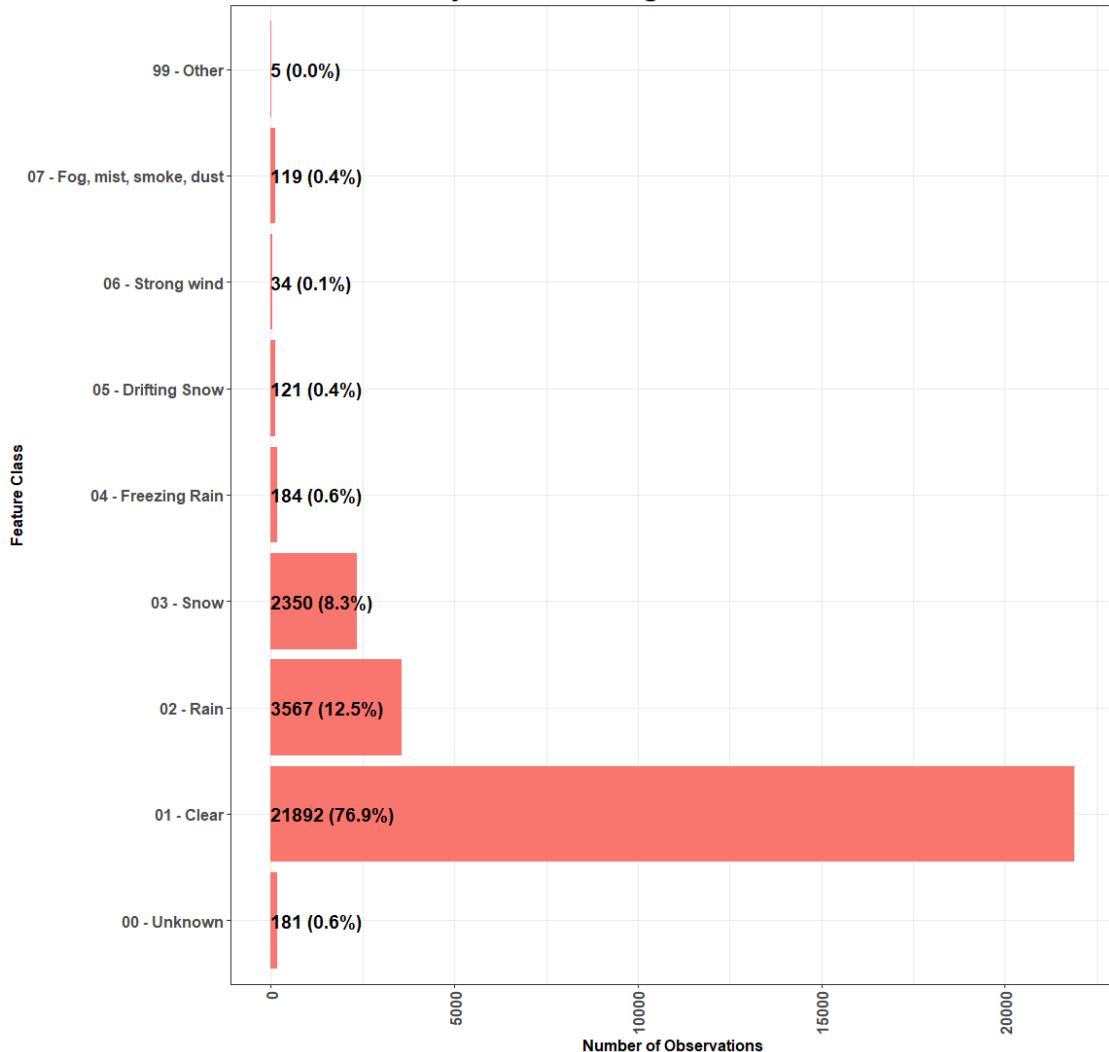
##  

## Feature Value Counter Percentage  

## -----
```

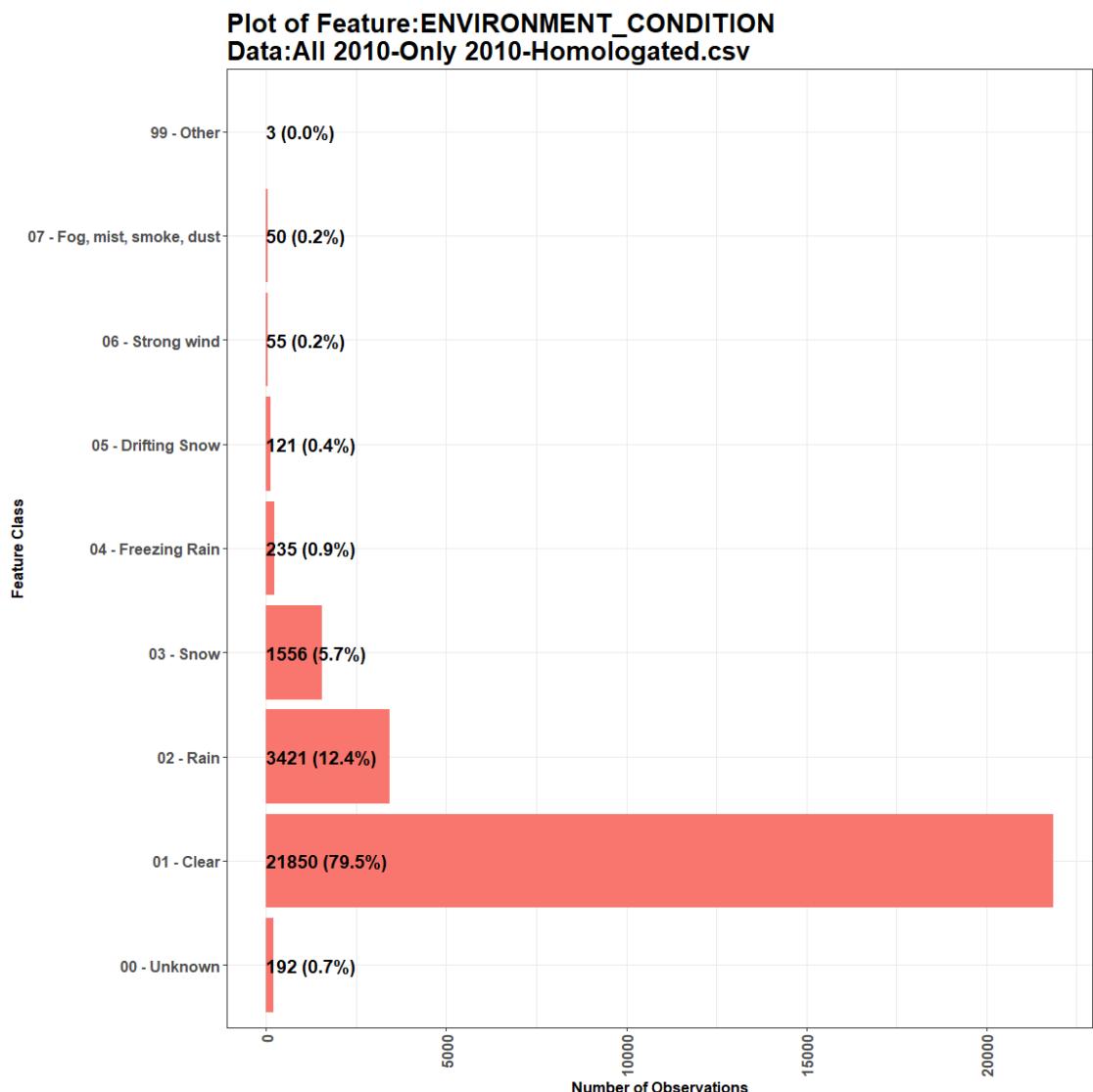
## 00 - Unknown	181	0.6361
## 01 - Clear	21892	76.9409
## 02 - Rain	3567	12.5365
## 03 - Snow	2350	8.2592
## 04 - Freezing Rain	184	0.6467
## 05 - Drifting Snow	121	0.4253
## 06 - Strong wind	34	0.1195
## 07 - Fog, mist, smoke, dust	119	0.4182
## 99 - Other	5	0.0176

Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ENVIRONMENT_CONDITION
## DATA:All 2010-Only 2010-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION
##
## Feature Value          Counter   Percentage
## ----- - ----- - -----
## 00 - Unknown           192       0.6986
## 01 - Clear              21850      79.5037
## 02 - Rain               3421       12.4477
## 03 - Snow                1556       5.6617
## 04 - Freezing Rain       235        0.8551
## 05 - Drifting Snow       121        0.4403
## 06 - Strong wind          55        0.2001
## 07 - Fog, mist, smoke, dust  50        0.1819
## 99 - Other                 3        0.0109
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

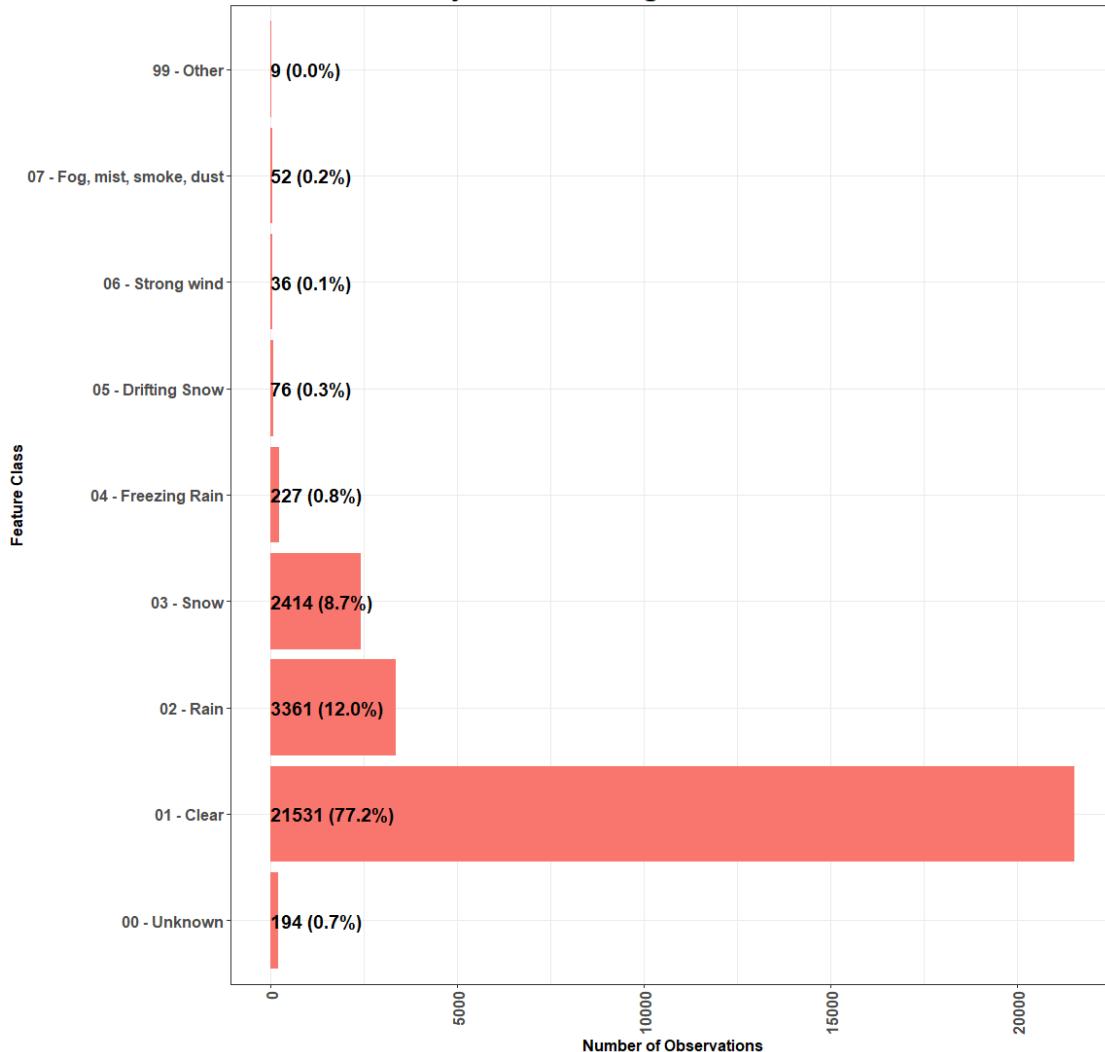
##  

## Feature Value Counter Percentage  

## -----
```

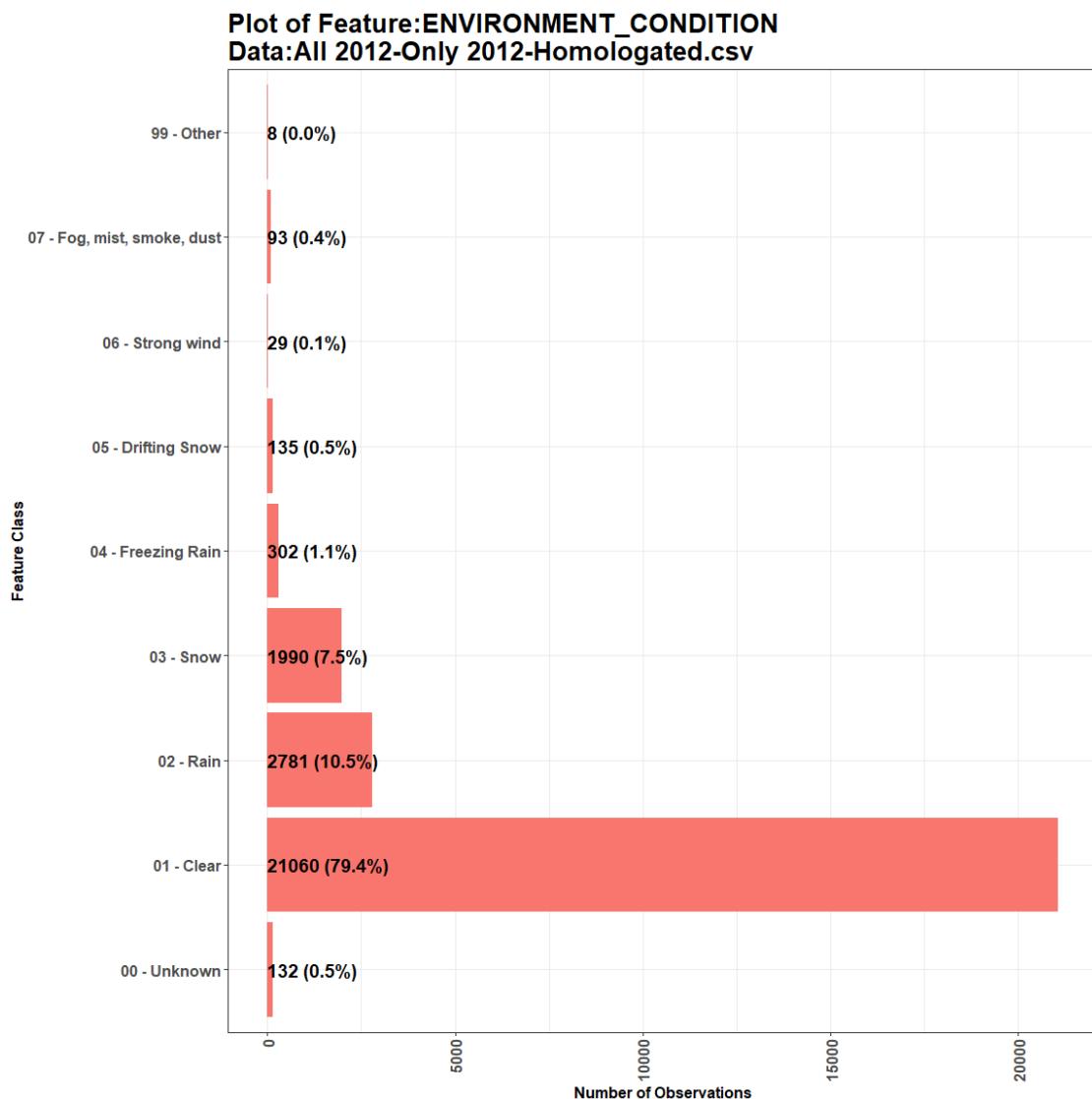
## 00 - Unknown	194	0.6953
## 01 - Clear	21531	77.1720
## 02 - Rain	3361	12.0466
## 03 - Snow	2414	8.6523
## 04 - Freezing Rain	227	0.8136
## 05 - Drifting Snow	76	0.2724
## 06 - Strong wind	36	0.1290
## 07 - Fog, mist, smoke, dust	52	0.1864
## 99 - Other	9	0.0323

Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ENVIRONMENT_CONDITION
## DATA:All 2012-Only 2012-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION
##
## Feature Value          Counter   Percentage
## ----- - ----- - -----
## 00 - Unknown           132      0.4975
## 01 - Clear              21060    79.3818
## 02 - Rain               2781     10.4825
## 03 - Snow               1990     7.5009
## 04 - Freezing Rain      302      1.1383
## 05 - Drifting Snow      135      0.5089
## 06 - Strong wind         29       0.1093
## 07 - Fog, mist, smoke, dust 93      0.3505
## 99 - Other                8       0.0302
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

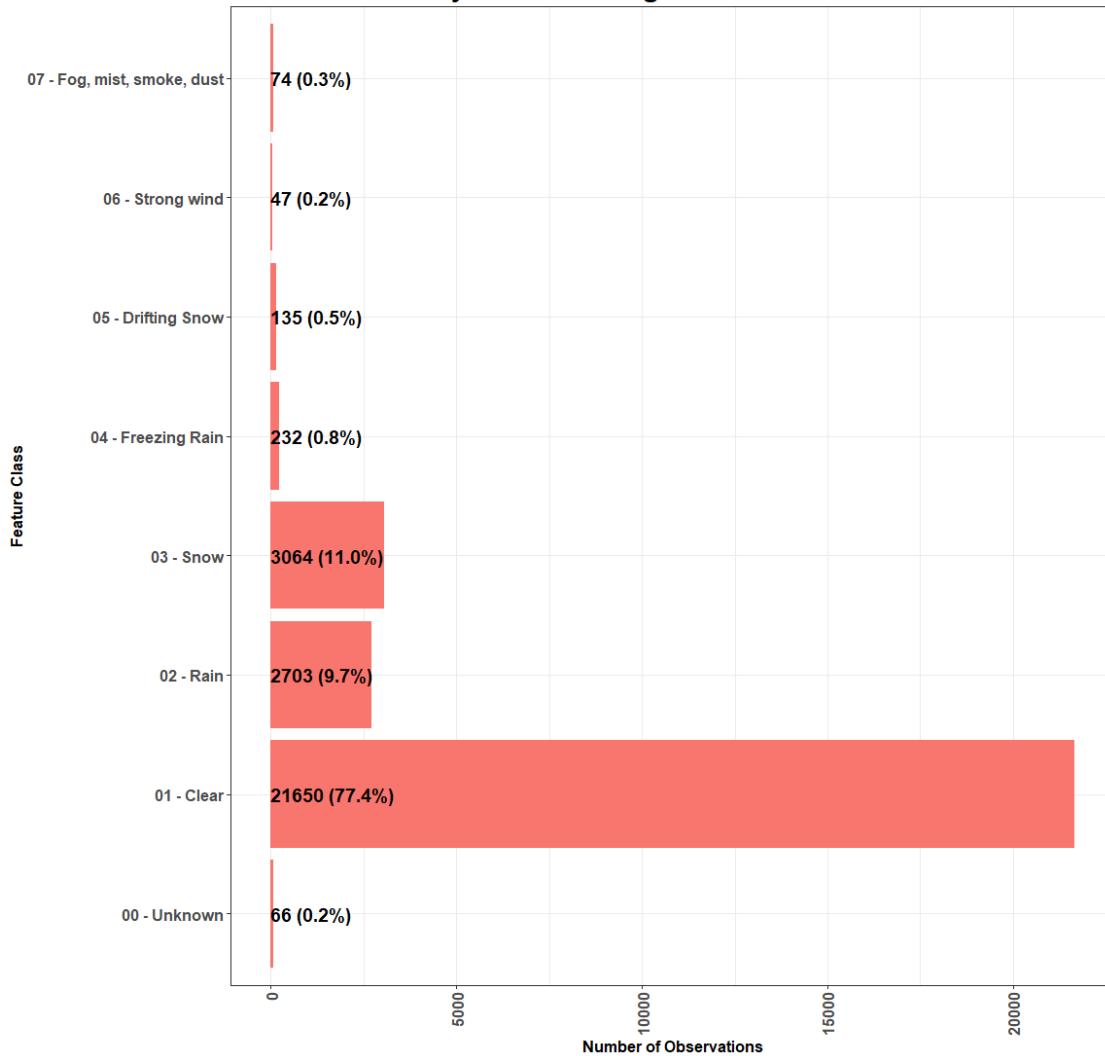
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	66	0.2360
## 01 - Clear	21650	77.4016
## 02 - Rain	2703	9.6636
## 03 - Snow	3064	10.9542
## 04 - Freezing Rain	232	0.8294
## 05 - Drifting Snow	135	0.4826
## 06 - Strong wind	47	0.1680
## 07 - Fog, mist, smoke, dust	74	0.2646

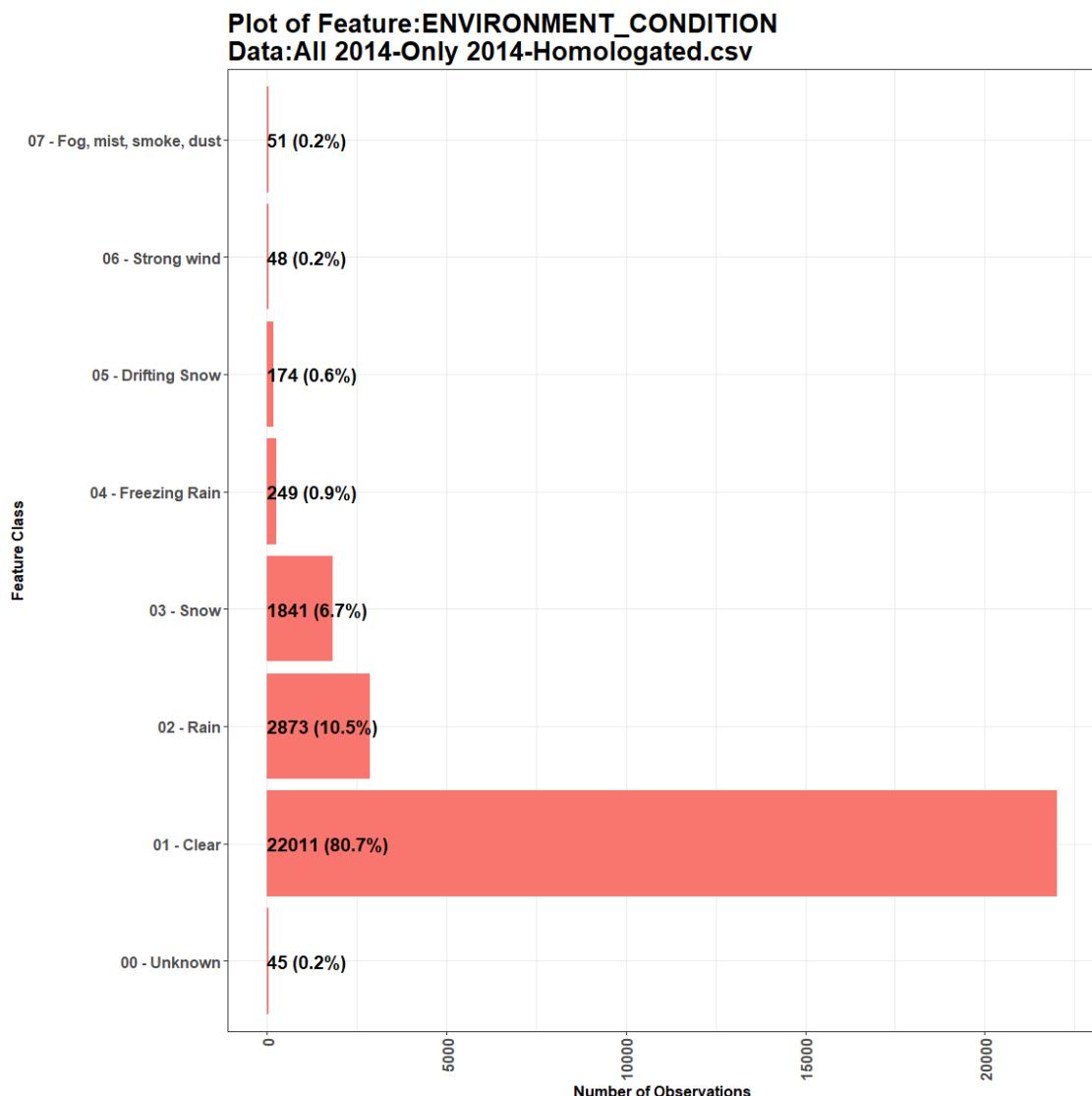
Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2013-Only 2013-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ENVIRONMENT_CONDITION
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
```



```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 45 0.1649  
## 01 - Clear 22011 80.6500  
## 02 - Rain 2873 10.5269  
## 03 - Snow 1841 6.7456  
## 04 - Freezing Rain 249 0.9124  
## 05 - Drifting Snow 174 0.6375  
## 06 - Strong wind 48 0.1759  
## 07 - Fog, mist, smoke, dust 51 0.1869
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

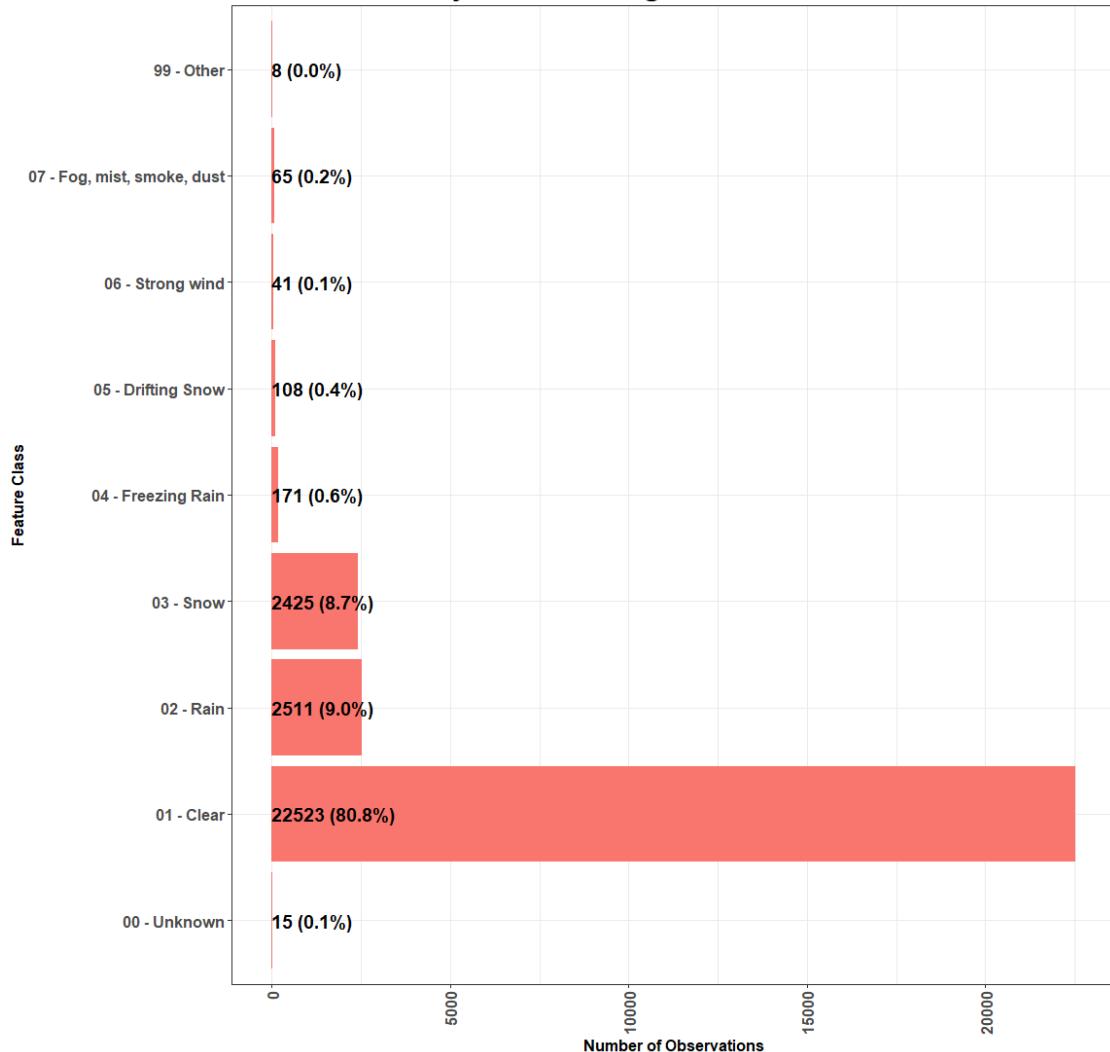
##  

## Feature Value Counter Percentage  

## -----
```

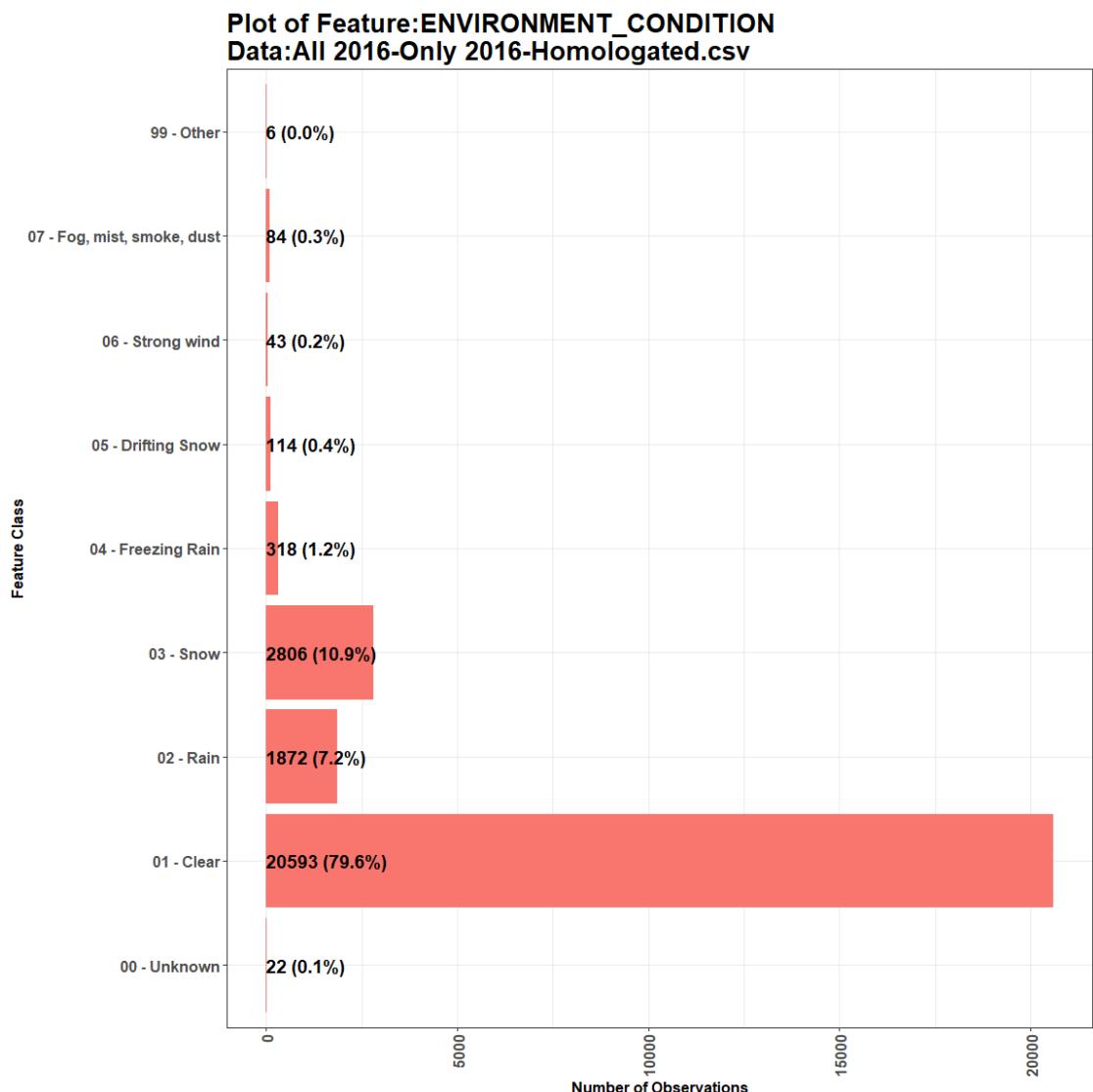
## 00 - Unknown	15	0.0538
## 01 - Clear	22523	80.8232
## 02 - Rain	2511	9.0107
## 03 - Snow	2425	8.7020
## 04 - Freezing Rain	171	0.6136
## 05 - Drifting Snow	108	0.3876
## 06 - Strong wind	41	0.1471
## 07 - Fog, mist, smoke, dust	65	0.2333
## 99 - Other	8	0.0287

Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ENVIRONMENT_CONDITION
## DATA:All 2016-Only 2016-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF ENVIRONMENT_CONDITION
##
## Feature Value          Counter   Percentage
## ----- - -----
## 00 - Unknown           22        0.0851
## 01 - Clear              20593     79.6388
## 02 - Rain                1872      7.2395
## 03 - Snow                2806      10.8516
## 04 - Freezing Rain       318       1.2298
## 05 - Drifting Snow       114       0.4409
## 06 - Strong wind         43        0.1663
## 07 - Fog, mist, smoke, dust 84        0.3249
## 99 - Other               6         0.0232
```



```
##  

## -----  

## CHECKING FEATURE:ENVIRONMENT_CONDITION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF ENVIRONMENT_CONDITION  

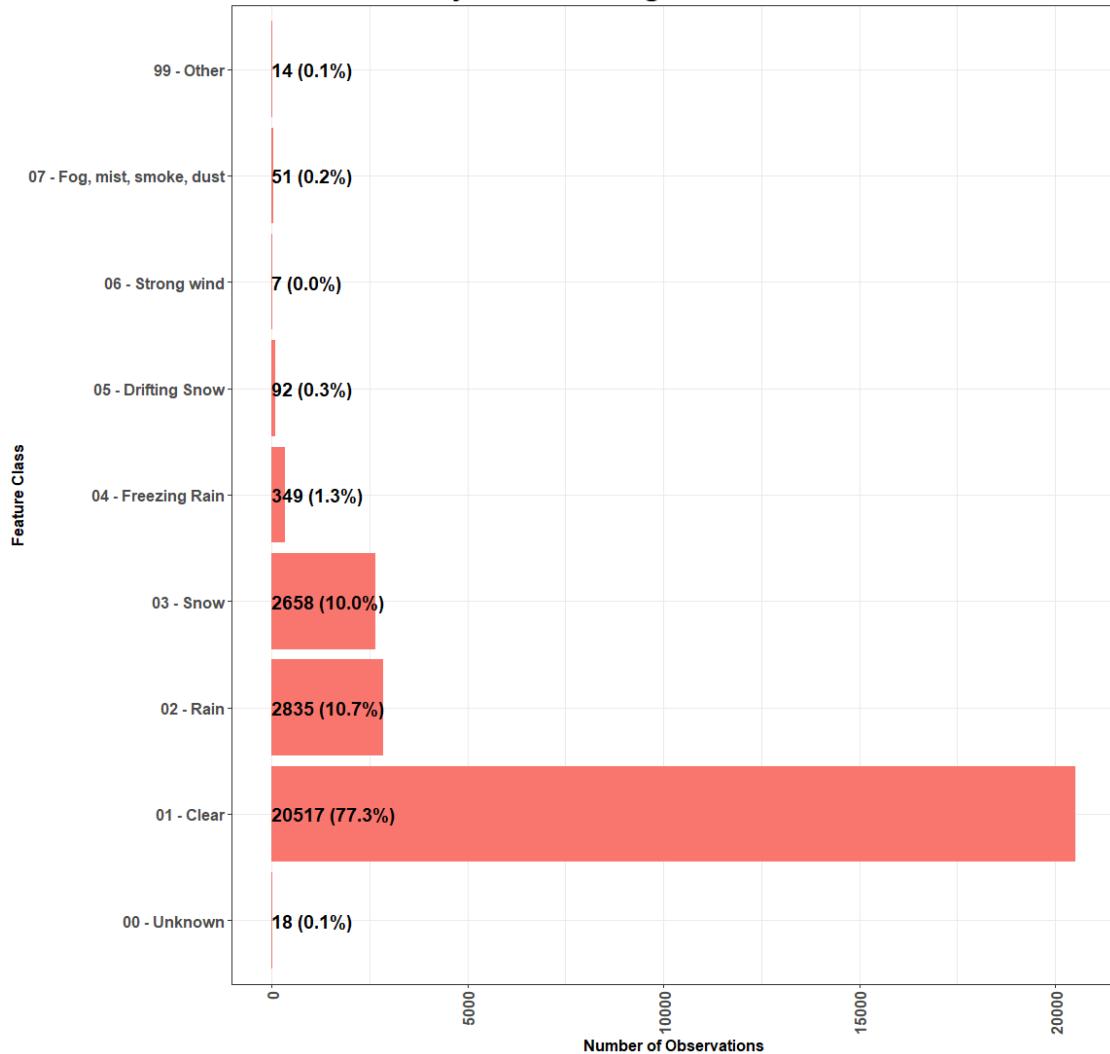
##  

## Feature Value Counter Percentage  

## -----
```

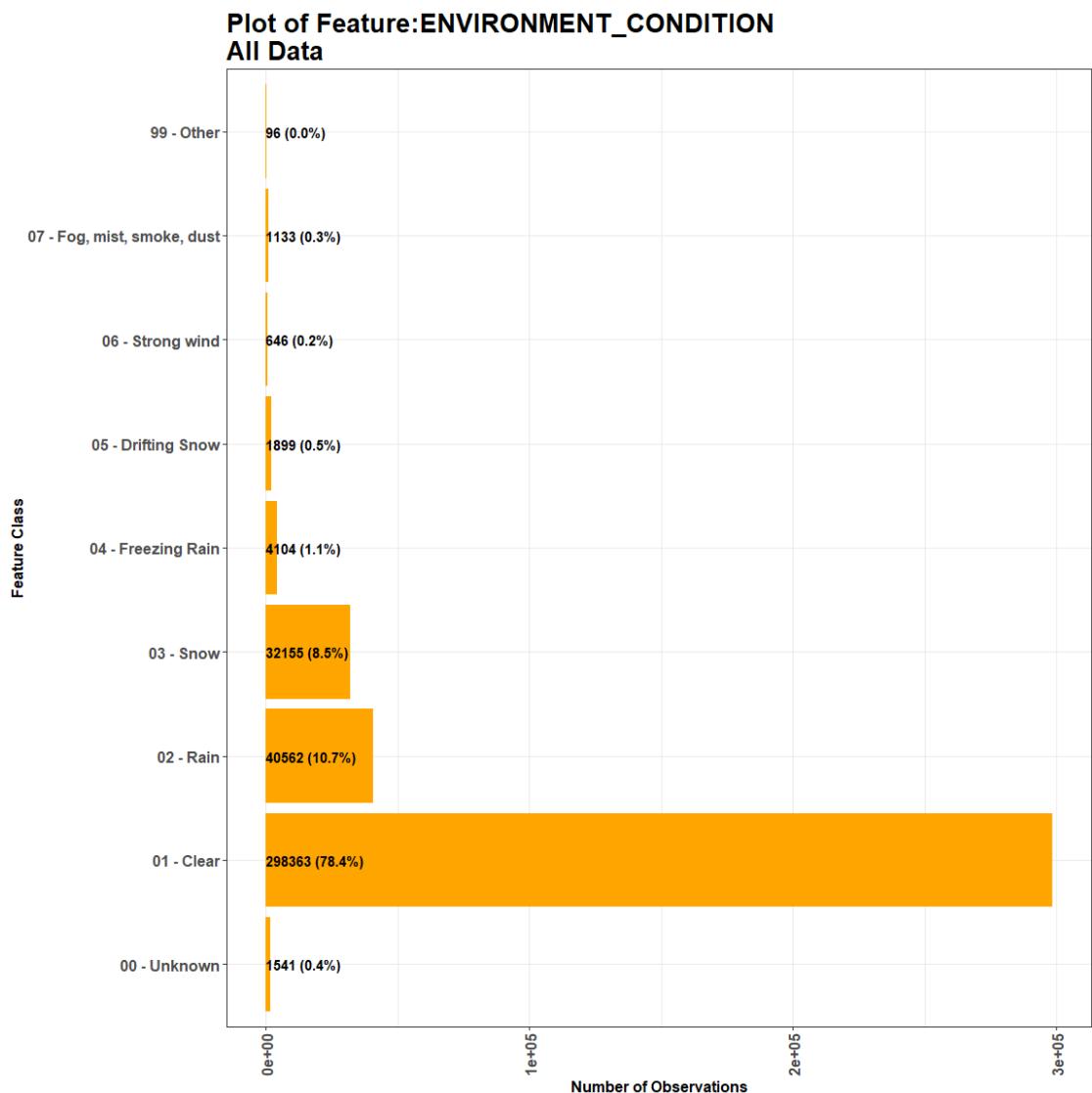
## 00 - Unknown	18	0.0678
## 01 - Clear	20517	77.3030
## 02 - Rain	2835	10.6816
## 03 - Snow	2658	10.0147
## 04 - Freezing Rain	349	1.3149
## 05 - Drifting Snow	92	0.3466
## 06 - Strong wind	7	0.0264
## 07 - Fog, mist, smoke, dust	51	0.1922
## 99 - Other	14	0.0527

Plot of Feature:ENVIRONMENT_CONDITION
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:ENVIRONMENT_CONDITION
## ALL DATA...
## =====
```

```
##  
## Number of Blank Values:0  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 9
```

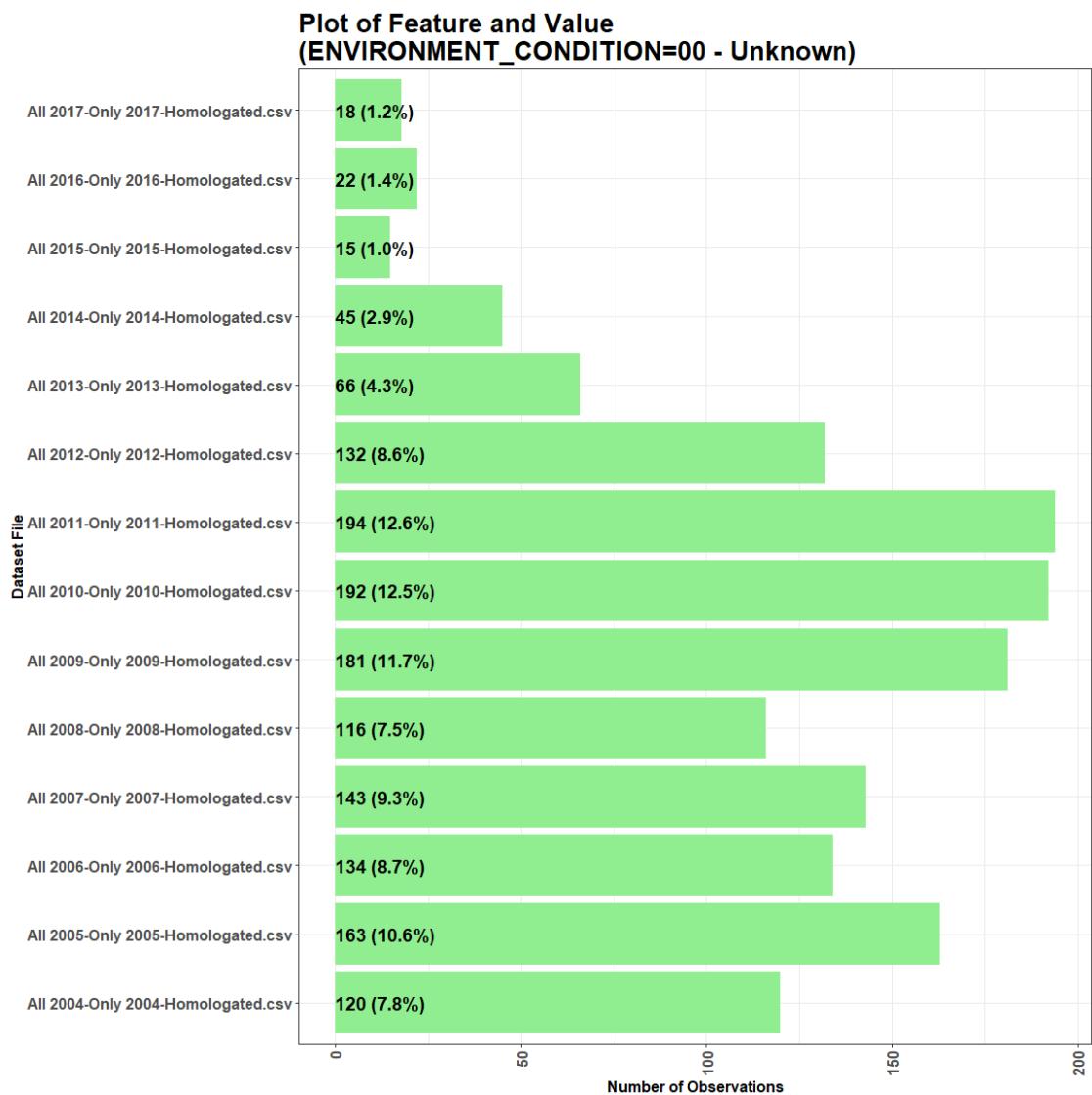


```
## [1] "TOP 100 FEATURES COUNTERS OF:ENVIRONMENT_CONDITION"
```

Feature Value	Counter	Percentage
00 - Unknown	1541	0.4050
01 - Clear	298363	78.4136
02 - Rain	40562	10.6602
03 - Snow	32155	8.4507
04 - Freezing Rain	4104	1.0786
05 - Drifting Snow	1899	0.4991
06 - Strong wind	646	0.1698
07 - Fog, mist, smoke, dust	1133	0.2978
99 - Other	96	0.0252

6.1 ENVIRONMENT_CONDITION = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (ENVIRONMENT_CONDITION=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 120 163  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 134 143  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 116 181  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 192 194  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 132 66  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 45 15  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 22 18
```

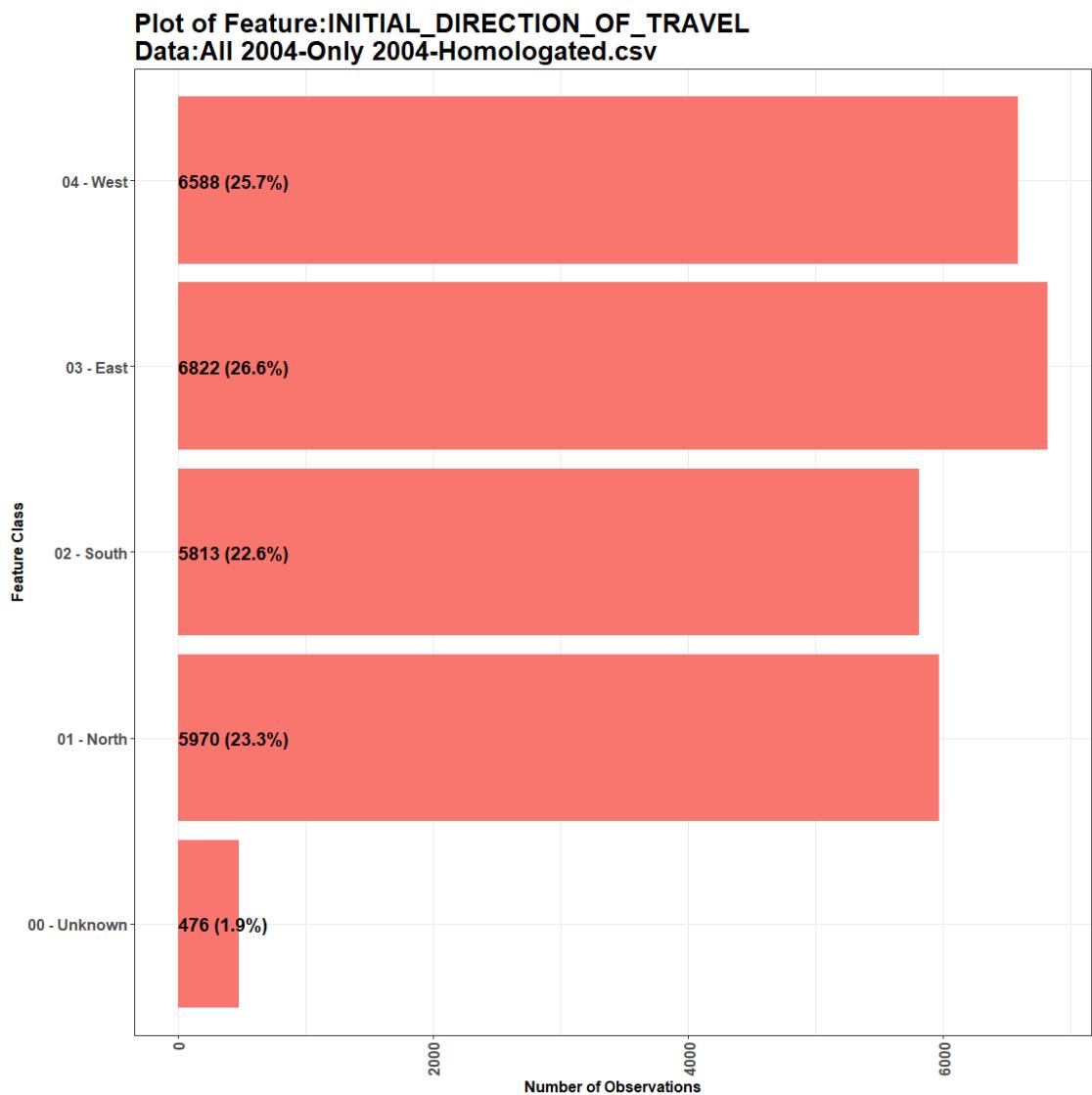


DATASET FILE	COUNTER OF (ENVIRONMENT_CONDITION=00 - Unknown)		Percentage
All 2004-Only 2004-Homologated.csv		120	7.7872
All 2005-Only 2005-Homologated.csv		163	10.5775
All 2006-Only 2006-Homologated.csv		134	8.6957
All 2007-Only 2007-Homologated.csv		143	9.2797
All 2008-Only 2008-Homologated.csv		116	7.5276

All 2009-Only 2009-Homologated.csv	181	11.7456
All 2010-Only 2010-Homologated.csv	192	12.4594
All 2011-Only 2011-Homologated.csv	194	12.5892
All 2012-Only 2012-Homologated.csv	132	8.5659
All 2013-Only 2013-Homologated.csv	66	4.2829
All 2014-Only 2014-Homologated.csv	45	2.9202
All 2015-Only 2015-Homologated.csv	15	0.9734
All 2016-Only 2016-Homologated.csv	22	1.4276
All 2017-Only 2017-Homologated.csv	18	1.1681

7. Initial Direction of Travel (INITIAL_DIRECTION_OF_TRAVEL)

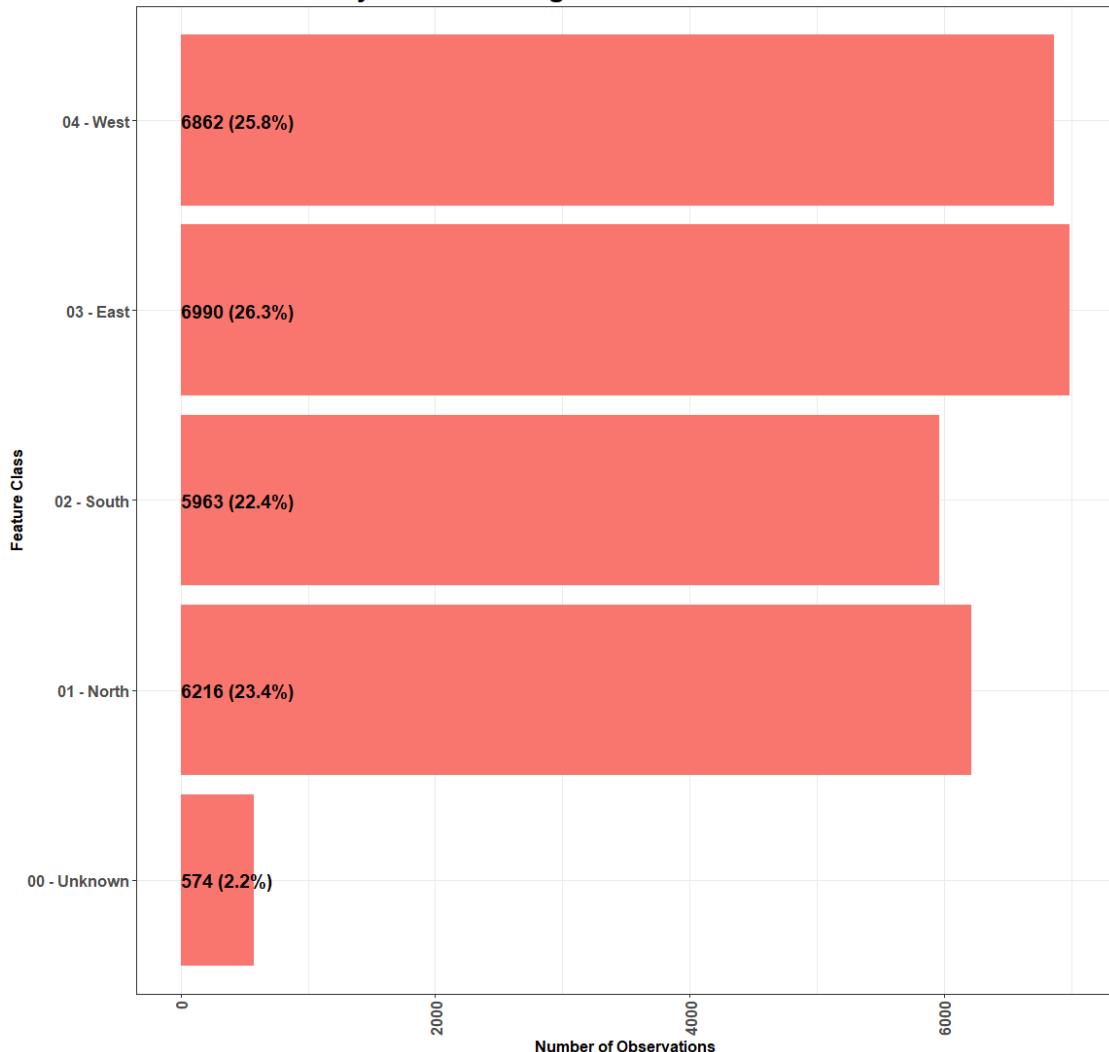
```
## 
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value   Counter   Percentage
## -----
## 00 - Unknown    476       1.854
## 01 - North      5970      23.258
## 02 - South      5813      22.646
## 03 - East        6822      26.577
## 04 - West        6588      25.665
```



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value      Counter      Percentage
## -----
```

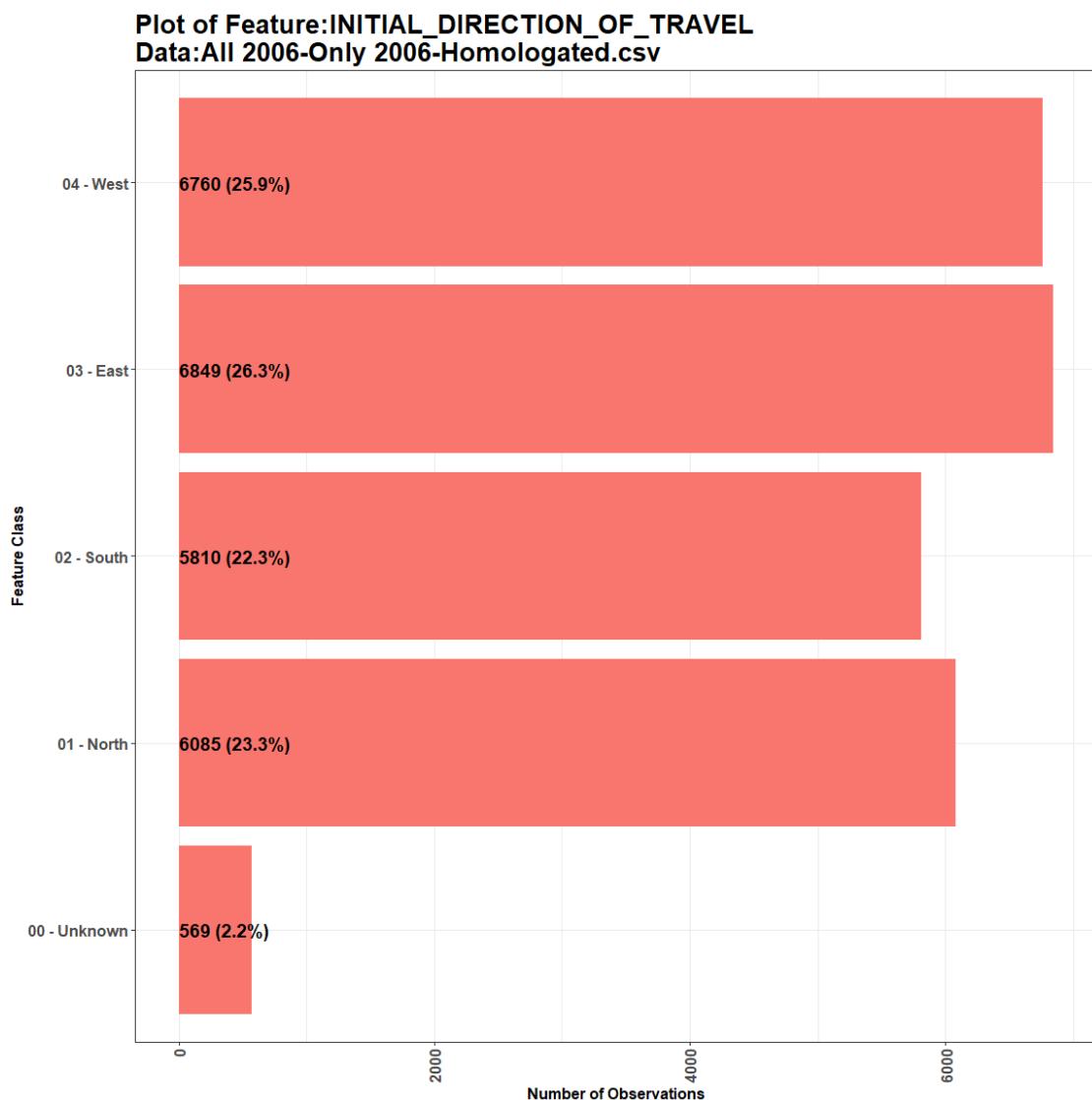
## 00 - Unknown	574	2.158
## 01 - North	6216	23.364
## 02 - South	5963	22.413
## 03 - East	6990	26.273
## 04 - West	6862	25.792

Plot of Feature:INITIAL_DIRECTION_OF_TRAVEL
Data:All 2005-Only 2005-Homologated.csv



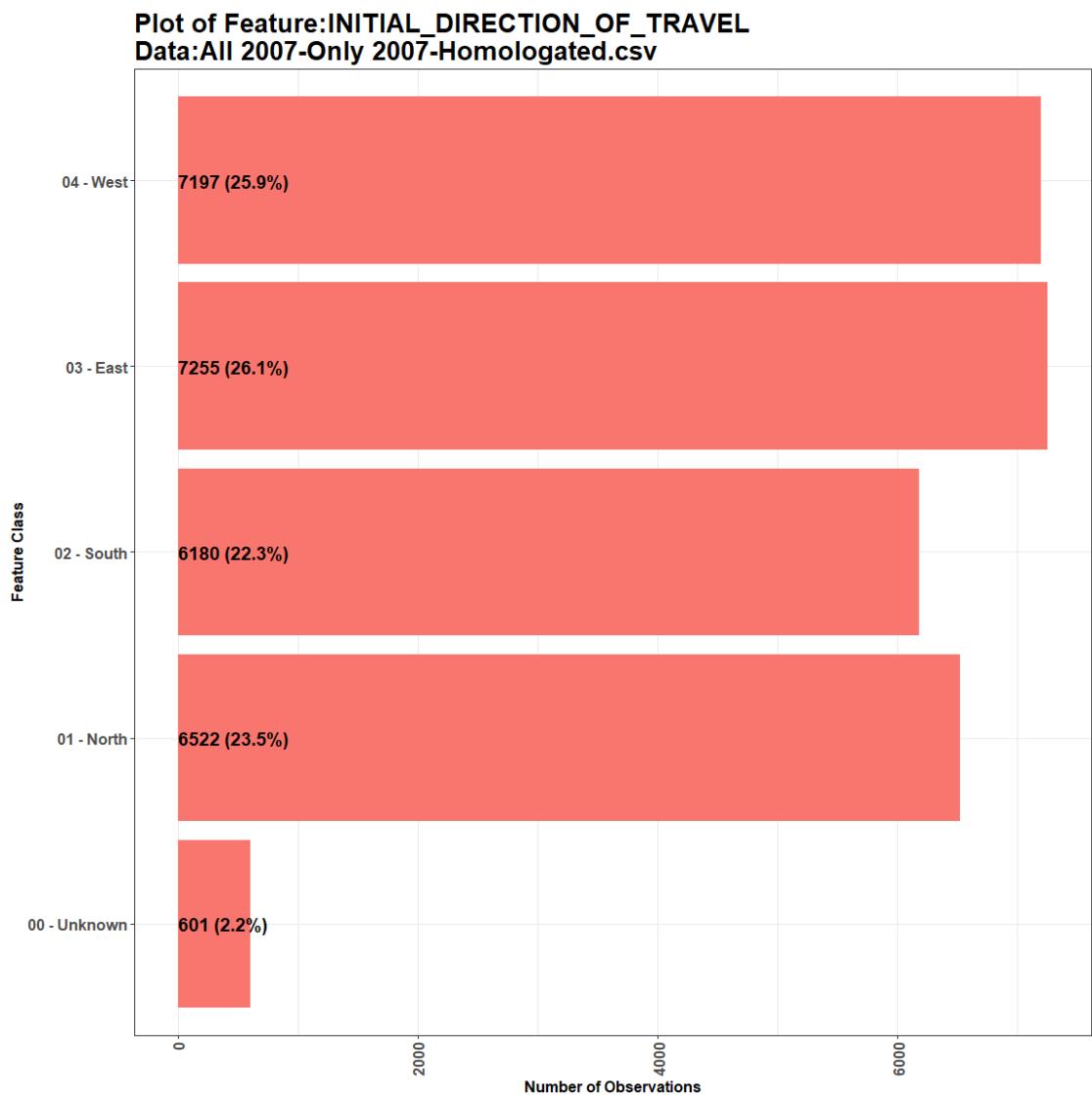
```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value Counter Percentage
## ----- -----
## 00 - Unknown      569     2.182
## 01 - North        6085    23.338
## 02 - South         5810    22.284
## 03 - East          6849    26.269
## 04 - West          6760    25.927
```



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
```

```
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown       601         2.165
## 01 - North          6522        23.498
## 02 - South           6180        22.266
## 03 - East            7255        26.139
## 04 - West            7197        25.930
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL  

## DATA:All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL  

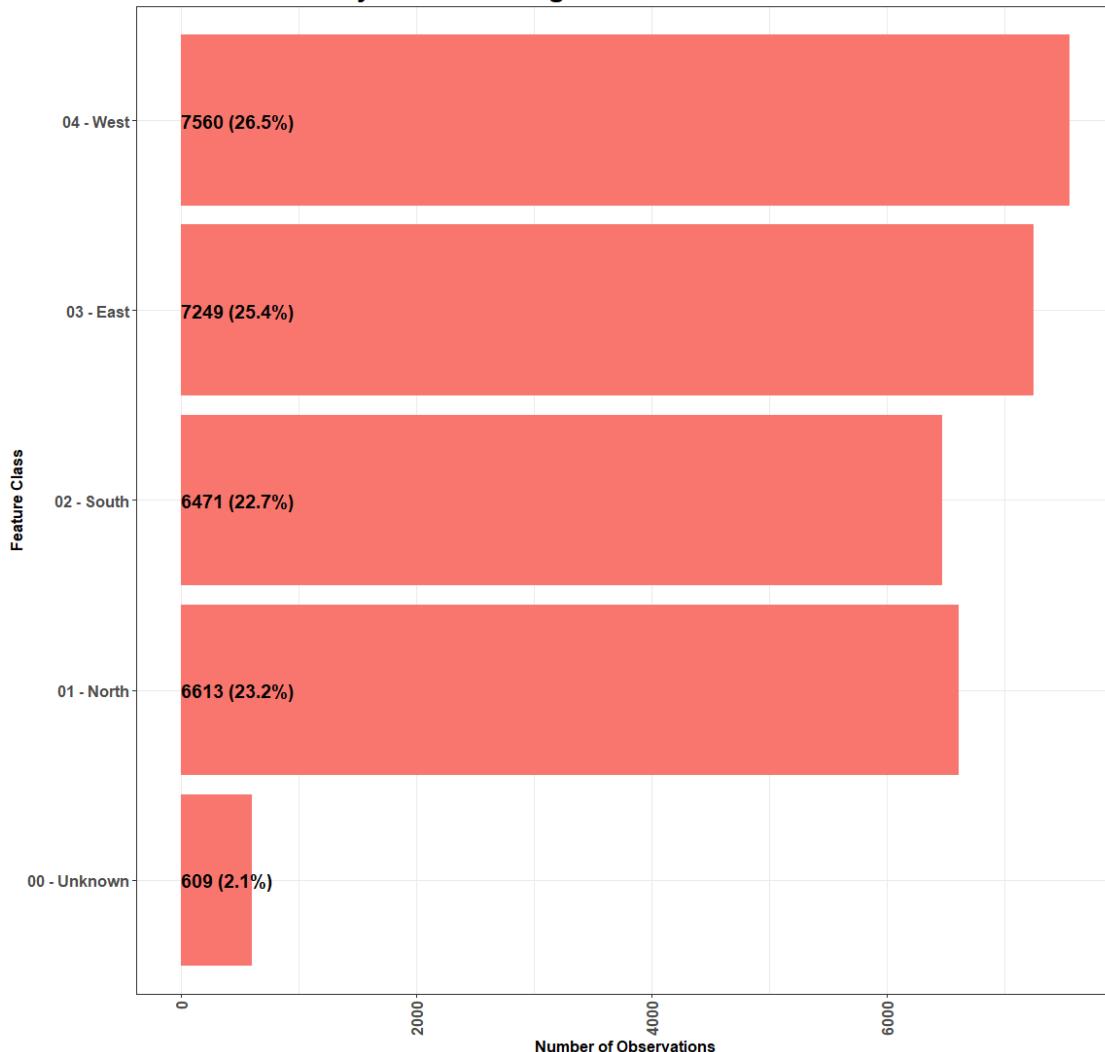
##  

## Feature Value Counter Percentage  

## -----
```

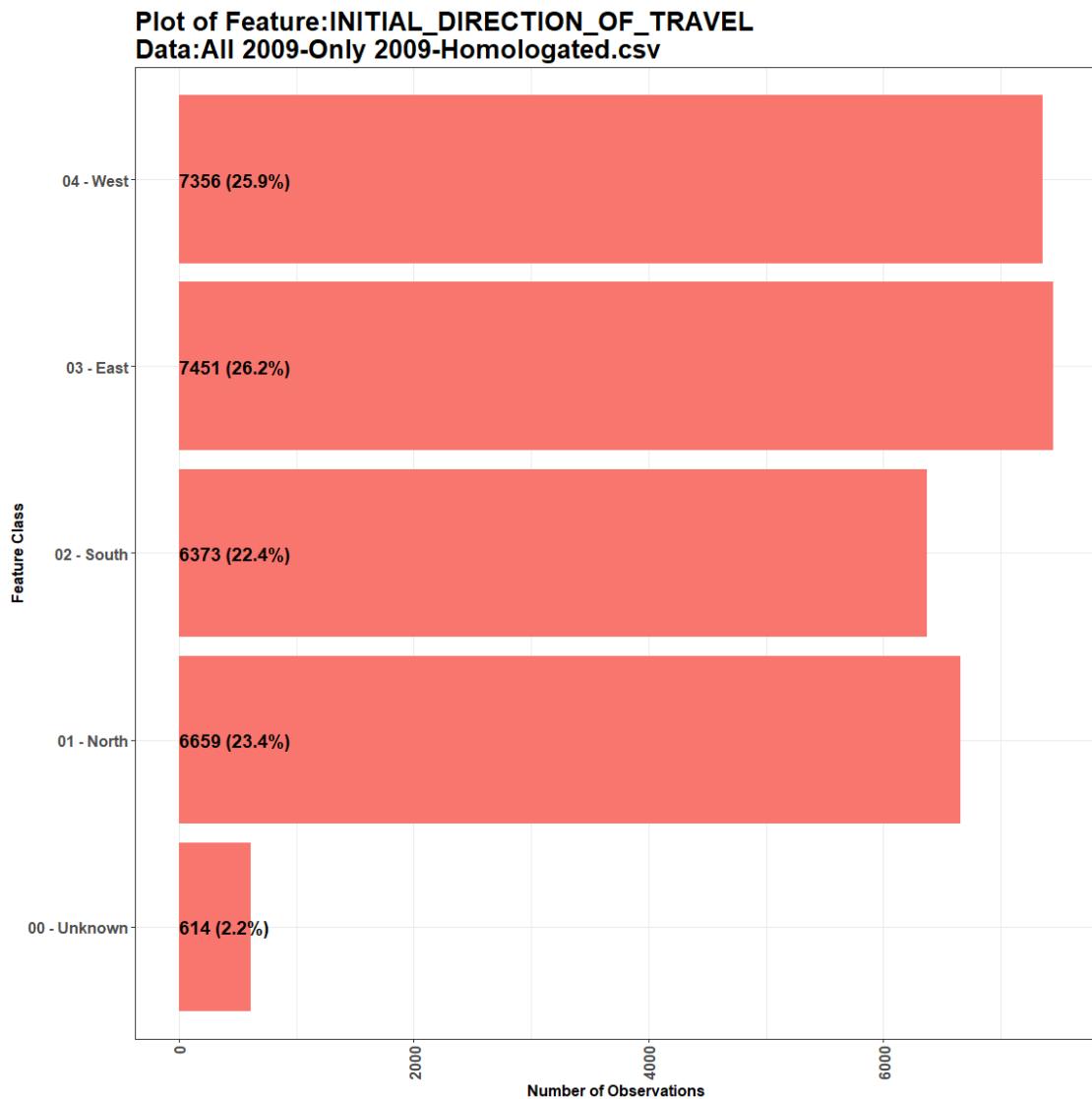
## 00 - Unknown	609	2.137
## 01 - North	6613	23.202
## 02 - South	6471	22.704
## 03 - East	7249	25.433
## 04 - West	7560	26.524

Plot of Feature:INITIAL_DIRECTION_OF_TRAVEL
Data:All 2008-Only 2008-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

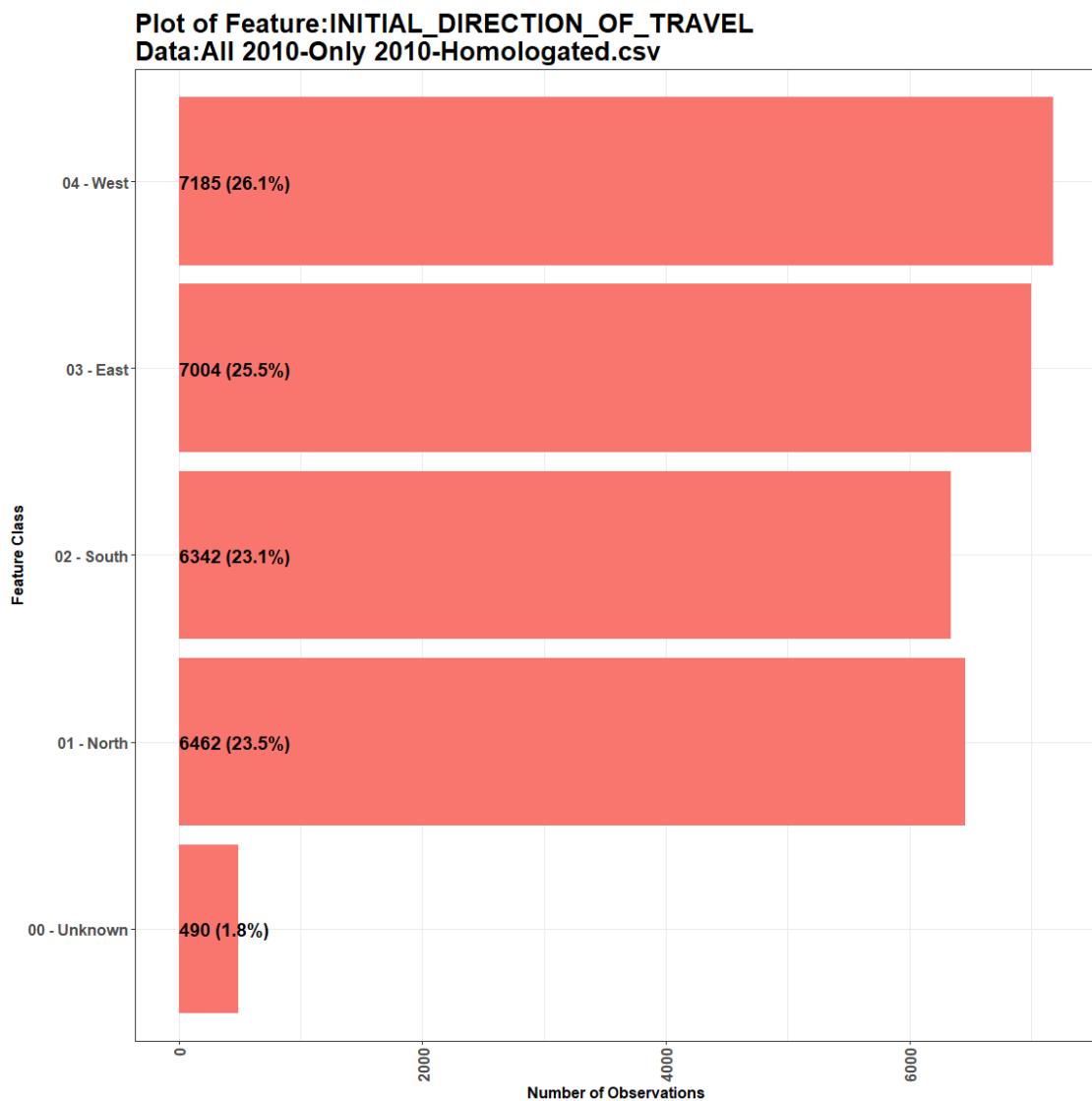
```
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value Counter Percentage
## ----- -----
## 00 - Unknown 614 2.158
## 01 - North 6659 23.404
## 02 - South 6373 22.398
## 03 - East 7451 26.187
## 04 - West 7356 25.853
```



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
```



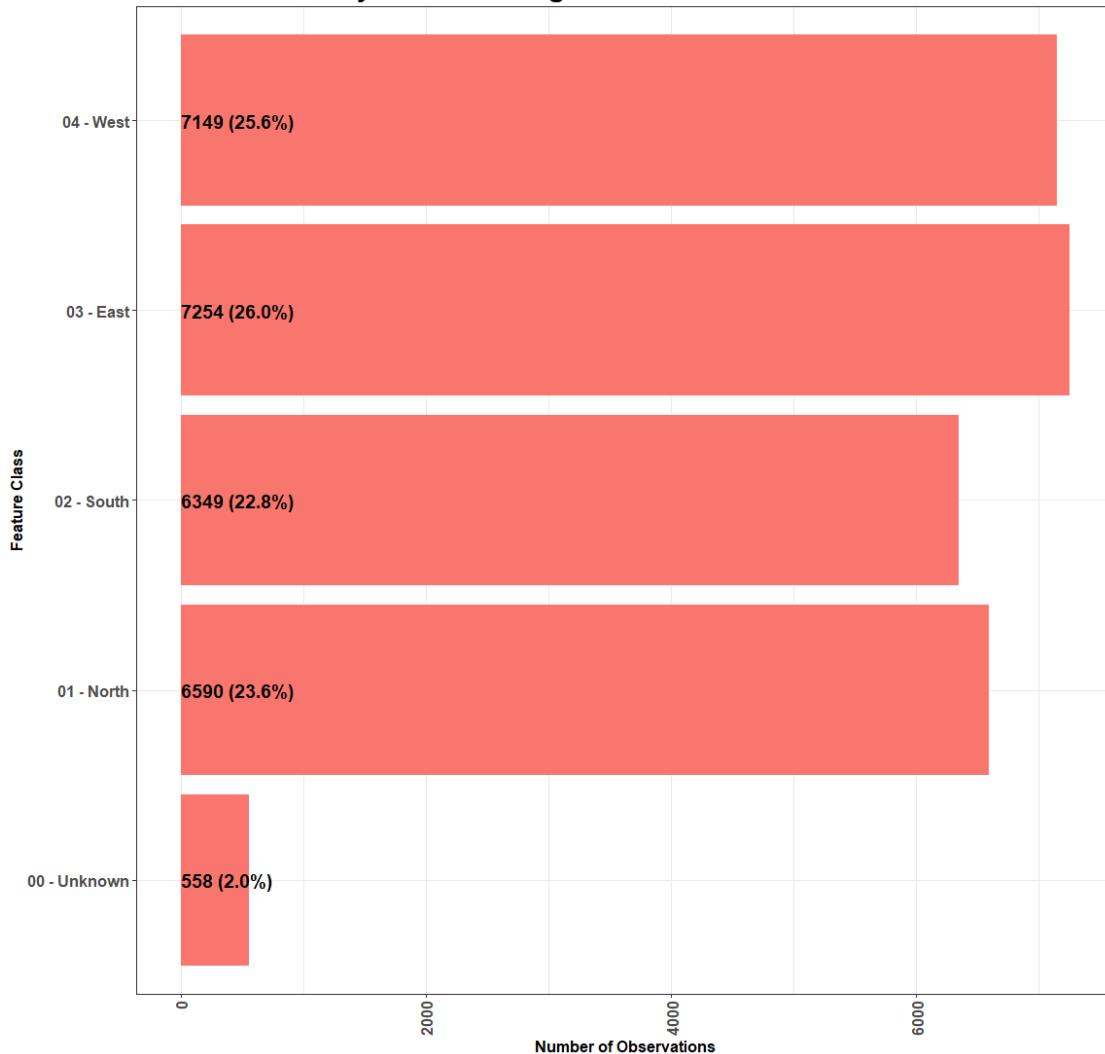
```
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown       490          1.783
## 01 - North          6462         23.513
## 02 - South          6342         23.076
## 03 - East           7004         25.485
## 04 - West           7185         26.143
```



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value      Counter      Percentage
## -----
```

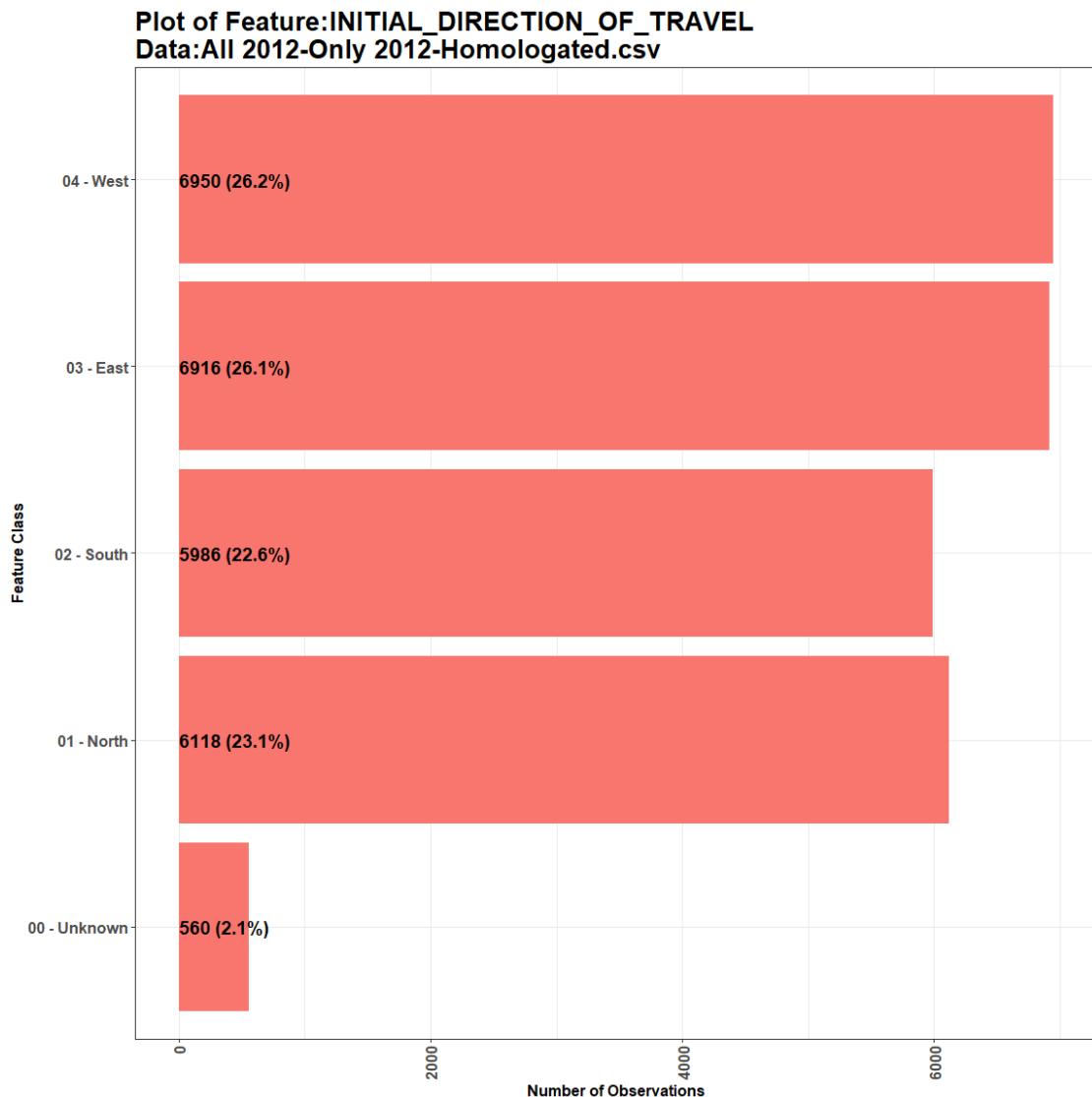
## 00 - Unknown	558	2.00
## 01 - North	6590	23.62
## 02 - South	6349	22.76
## 03 - East	7254	26.00
## 04 - West	7149	25.62

Plot of Feature:INITIAL_DIRECTION_OF_TRAVEL
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

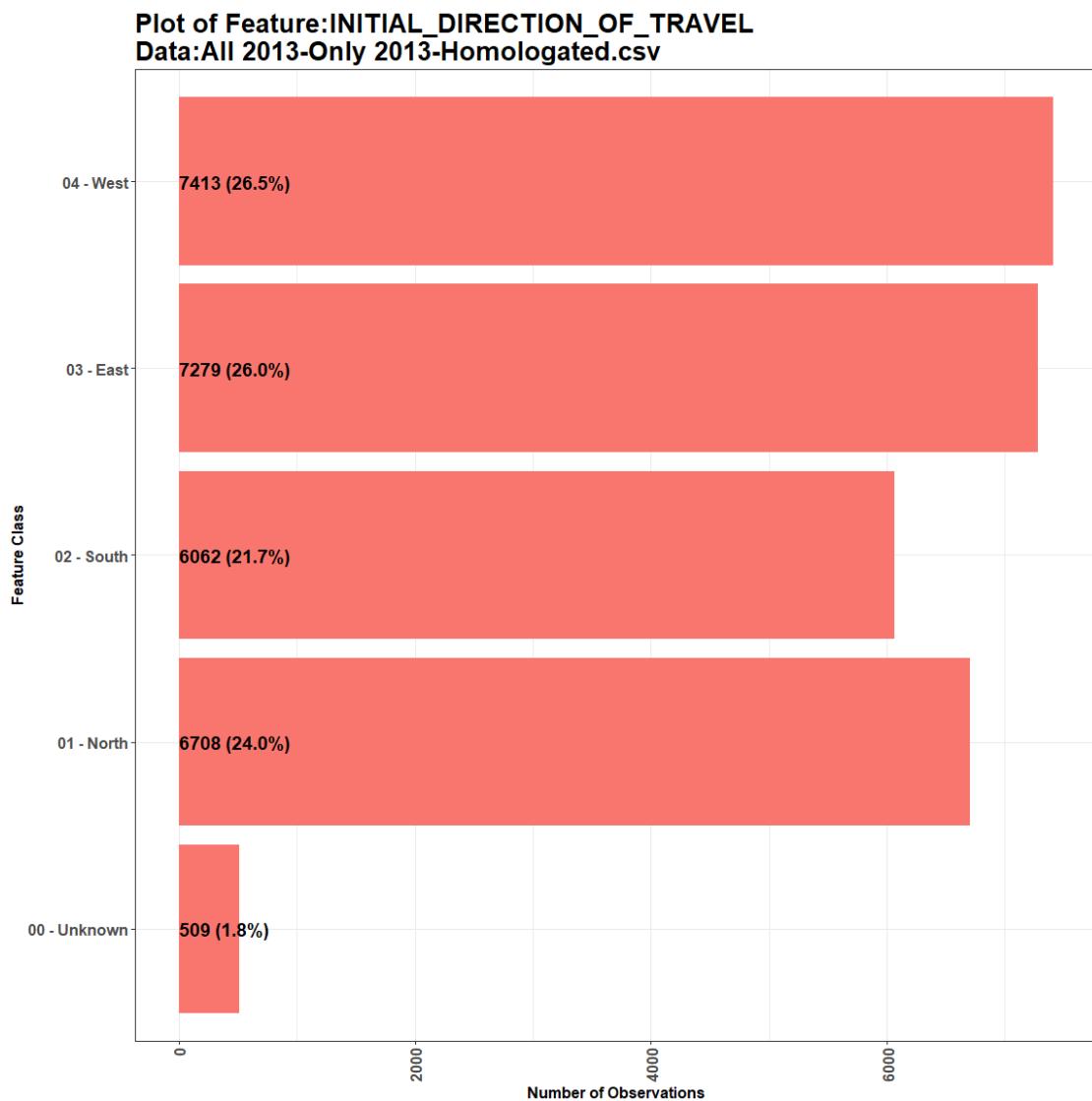
```
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value Counter Percentage
## ----- -----
## 00 - Unknown      560     2.111
## 01 - North        6118    23.061
## 02 - South         5986    22.563
## 03 - East          6916    26.069
## 04 - West          6950    26.197
```



```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
```



```
## DATA:All 2013-Only 2013-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 5
## 
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
## 
## Feature Value      Counter    Percentage
## ----- -----
## 00 - Unknown       509        1.82
## 01 - North          6708       23.98
## 02 - South          6062       21.67
## 03 - East           7279       26.02
## 04 - West           7413       26.50
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL  

## DATA:All 2014-Only 2014-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL  

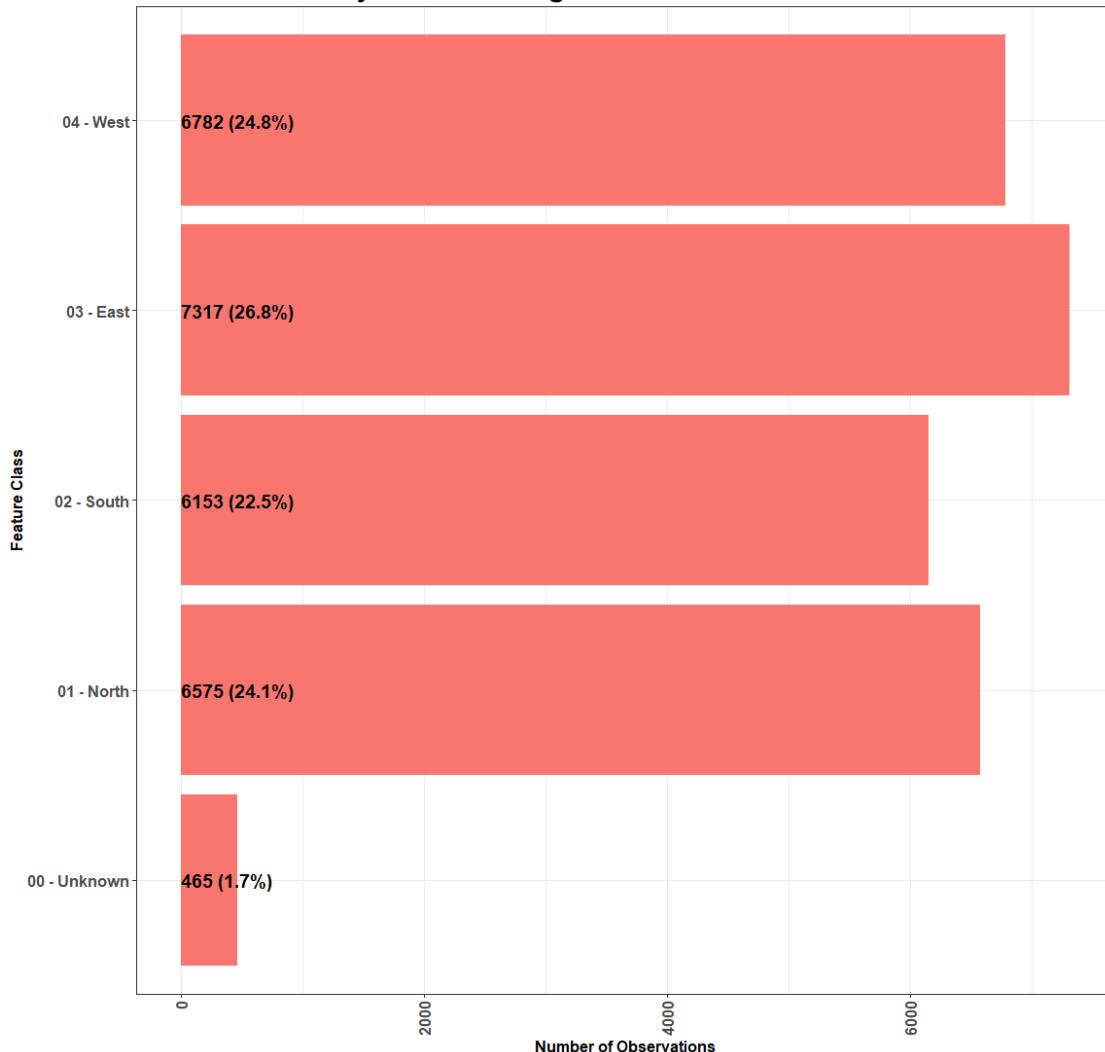
##  

## Feature Value Counter Percentage  

## -----
```

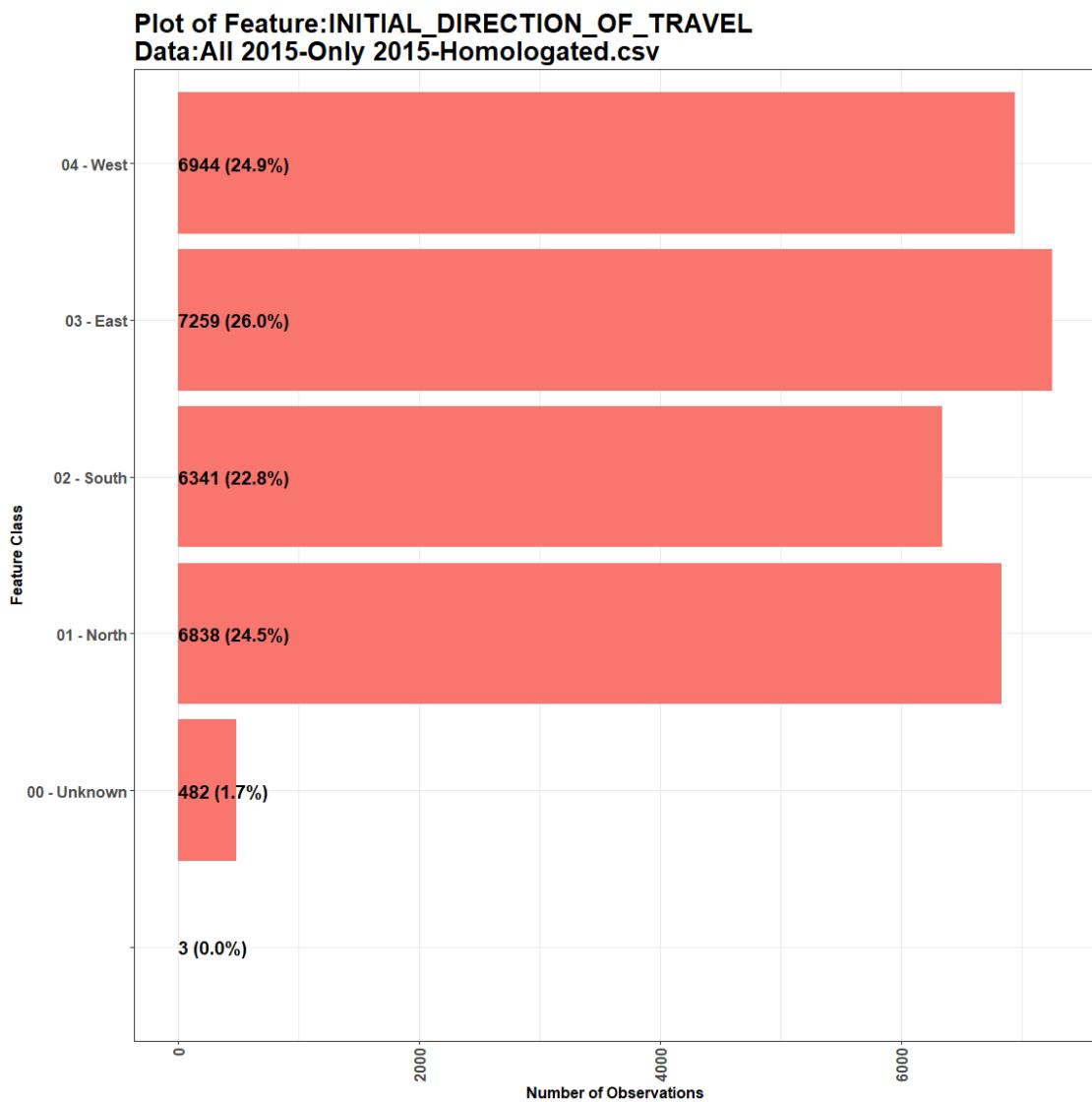
## 00 - Unknown	465	1.704
## 01 - North	6575	24.091
## 02 - South	6153	22.545
## 03 - East	7317	26.810
## 04 - West	6782	24.850

Plot of Feature:INITIAL_DIRECTION_OF_TRAVEL
Data:All 2014-Only 2014-Homologated.csv



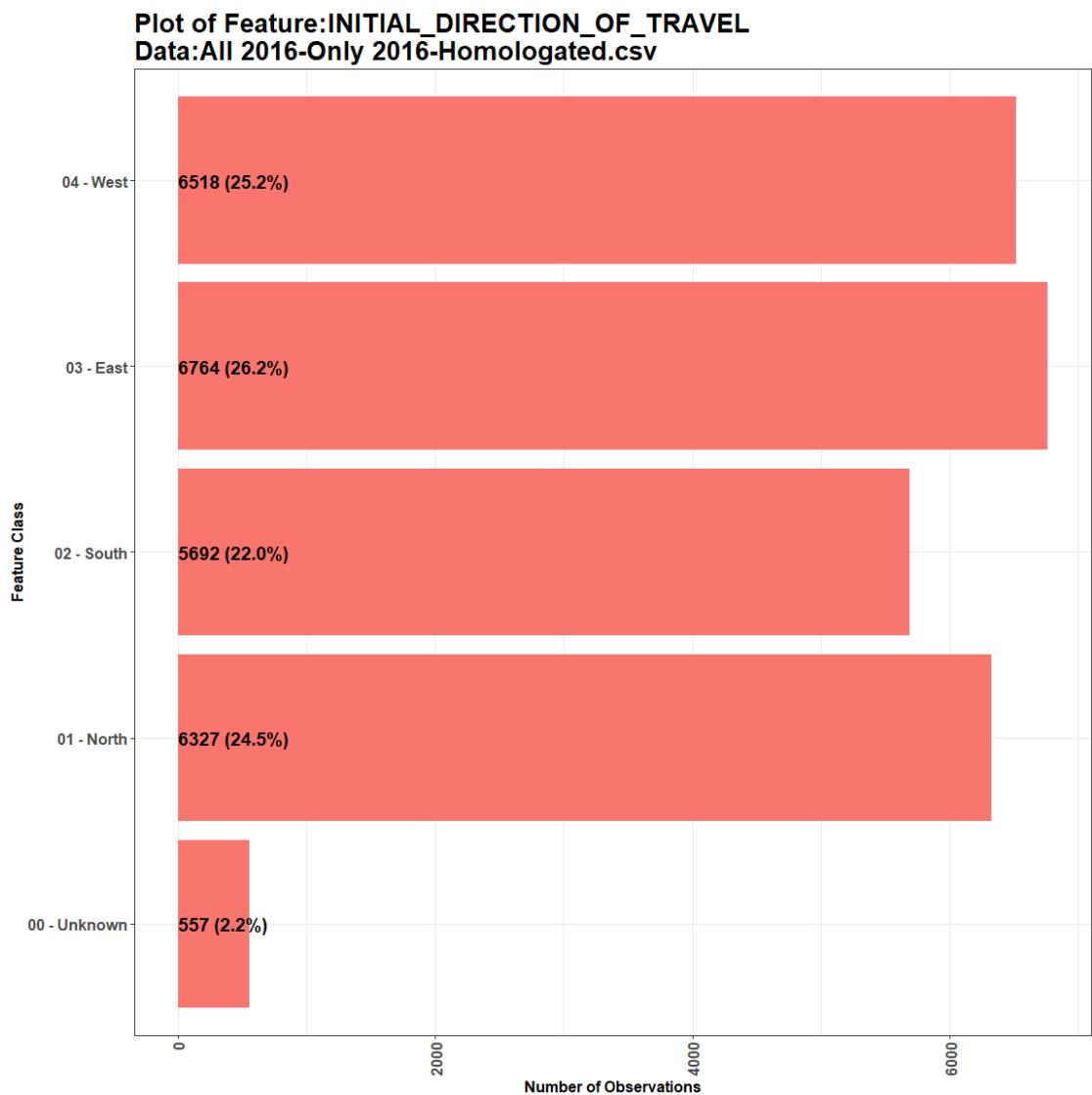
```
##
## -----
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:3
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 6
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value Counter Percentage
## ----- -----
## 00 - Unknown 482 0.0108
## 01 - North 6838 1.7296
## 02 - South 6341 24.5380
## 03 - East 7259 22.7545
## 04 - West 6944 26.0487
```



```
##
## -----
```

```
## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown       557         2.154
## 01 - North          6327        24.468
## 02 - South           5692        22.012
## 03 - East            6764        26.158
## 04 - West            6518        25.207
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF INITIAL_DIRECTION_OF_TRAVEL  

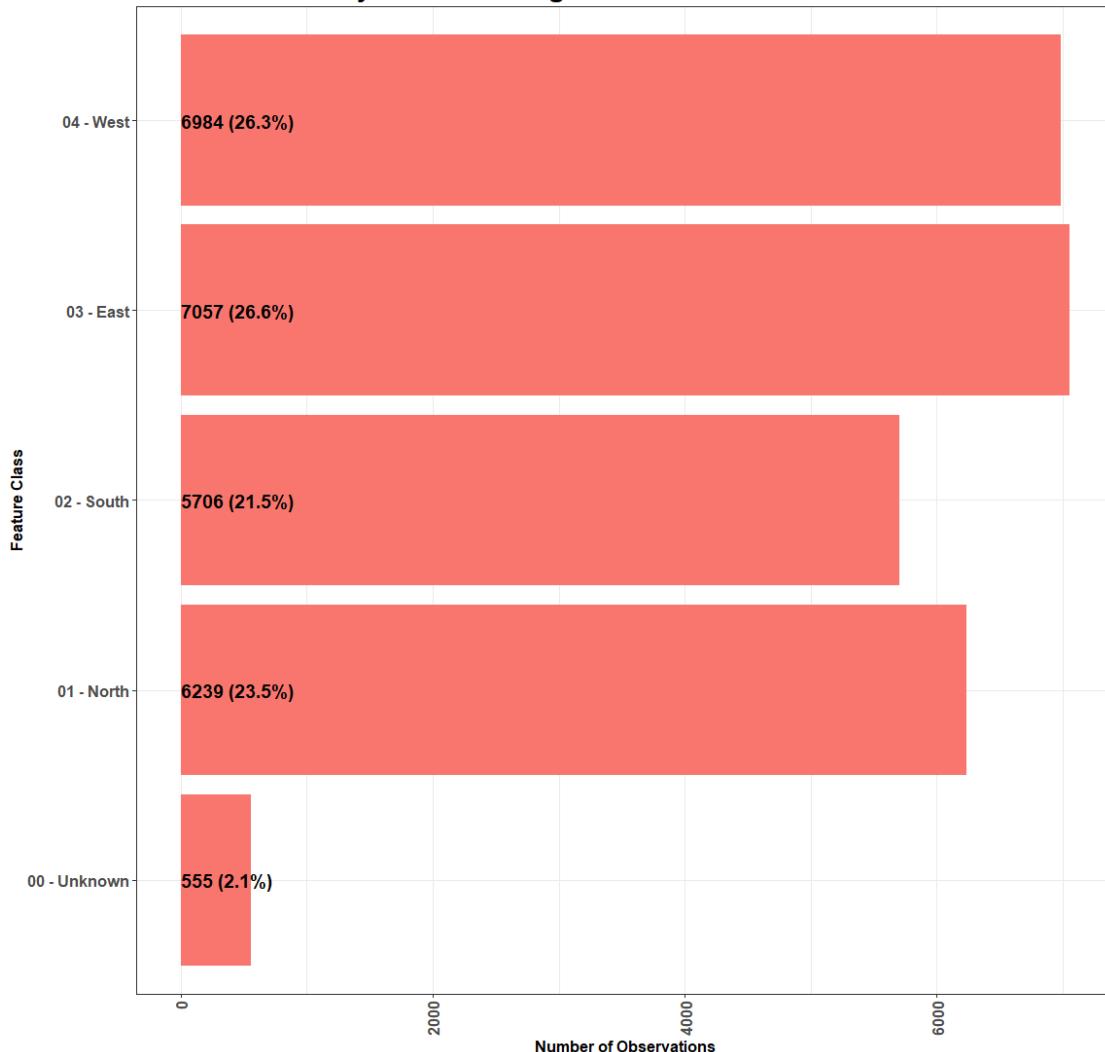
##  

## Feature Value Counter Percentage  

## -----
```

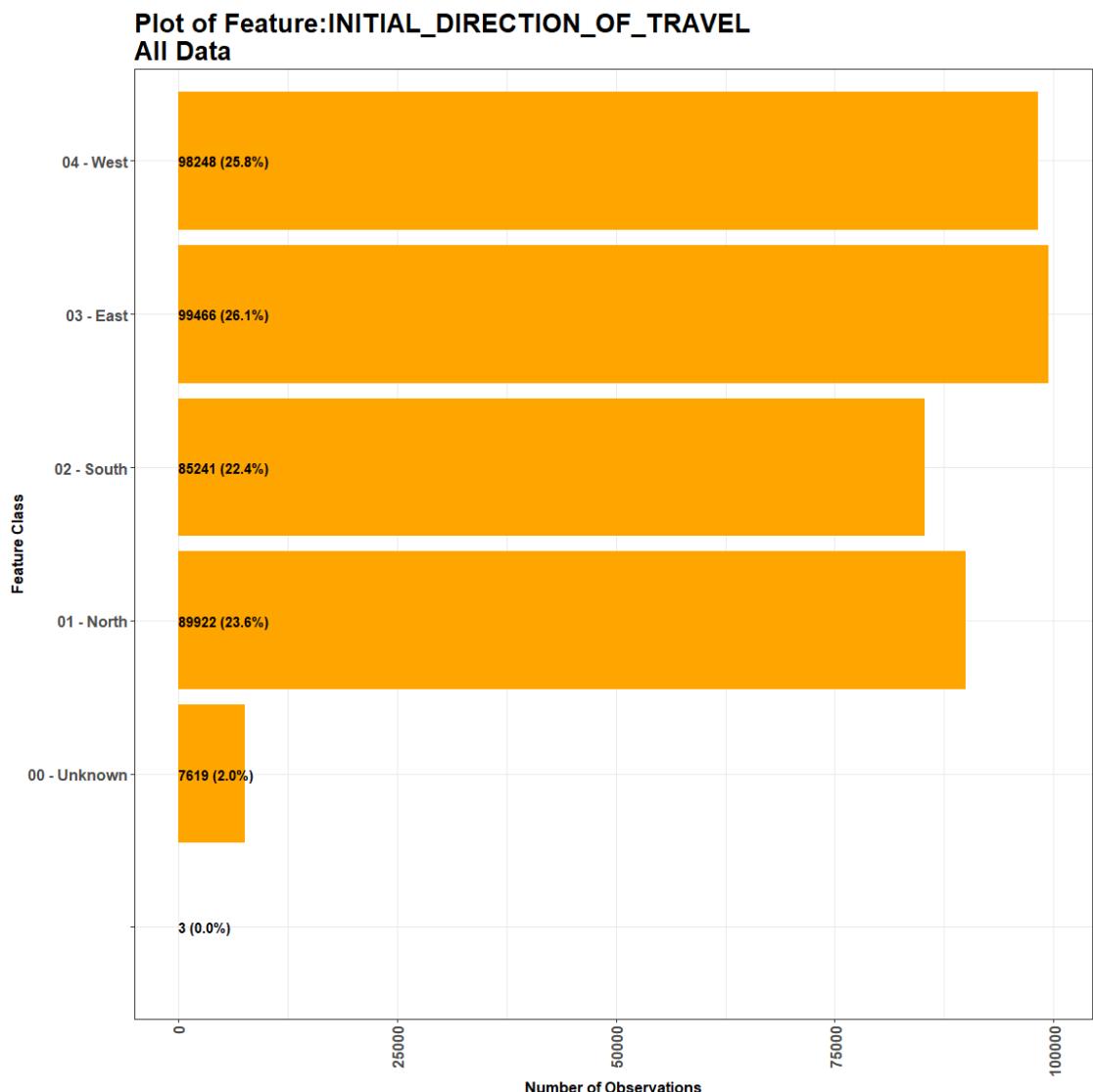
## 00 - Unknown	555	2.091
## 01 - North	6239	23.507
## 02 - South	5706	21.499
## 03 - East	7057	26.589
## 04 - West	6984	26.314

Plot of Feature:INITIAL_DIRECTION_OF_TRAVEL
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:INITIAL_DIRECTION_OF_TRAVEL
## ALL DATA...
## =====
## Number of Blank Values:3
##
## Summary per Data File:
```

```
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                               25669                           26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                               26073                           27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                               28502                           28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                               27483                           27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                               26530                           27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                               27292                           27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                               25858                           26541
##
##
## Summary as Factor Feature:
## Number of Features: 6
```

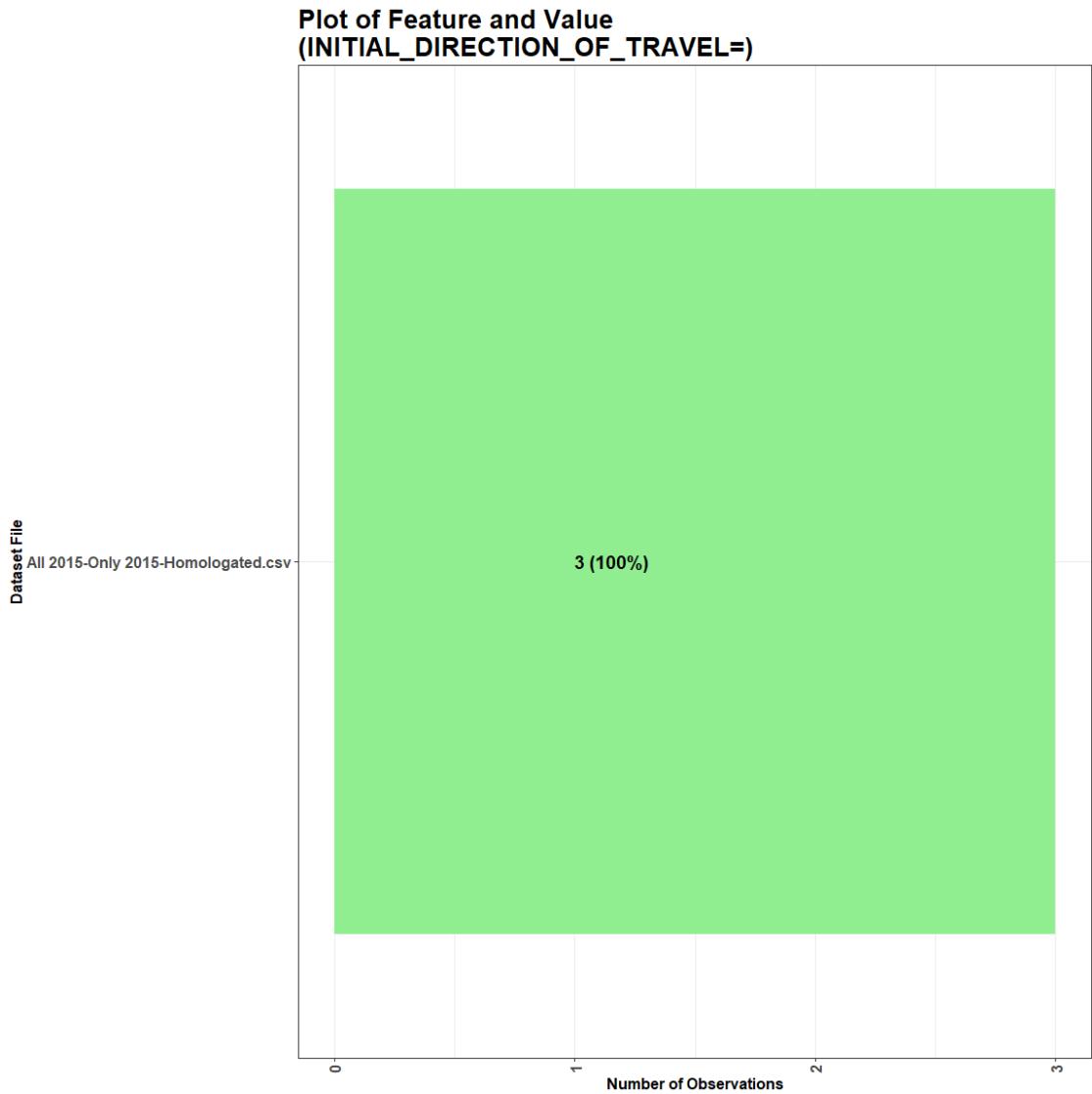


```
## [1] "TOP 100 FEATURES COUNTERS OF:INITIAL_DIRECTION_OF_TRAVEL"
```

Feature Value	Counter	Percentage
	3	0.0008
00 - Unknown	7619	2.0024
01 - North	89922	23.6327
02 - South	85241	22.4024
03 - East	99466	26.1409
04 - West	98248	25.8208

7.1 INITIAL_DIRECTION_OF_TRAVEL = "" (Blank)

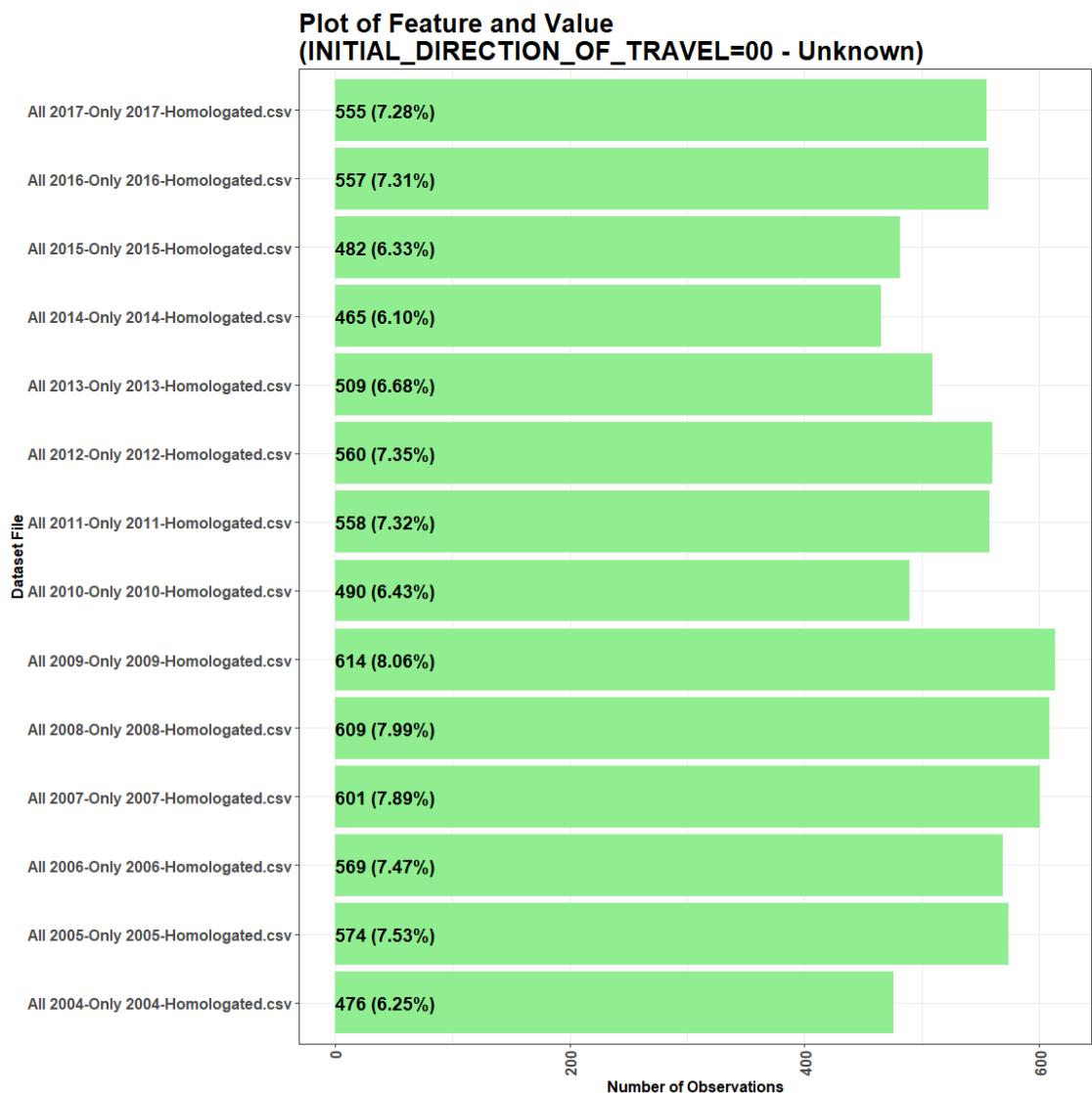
```
##  
## =====  
## CHECKING FEATURE AND VALUE (INITIAL_DIRECTION_OF_TRAVEL=)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
## 3
```



DATASET FILE	COUNTER OF (INITIAL_DIRECTION_OF_TRAVEL=)	Percentage	
		3	100
All 2015-Only 2015-Homologated.csv			

7.2 INITIAL_DIRECTION_OF_TRAVEL = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (INITIAL_DIRECTION_OF_TRAVEL=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 476 574  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 569 601  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 609 614  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 490 558  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 560 509  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 465 482  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 557 555
```



DATASET FILE	COUNTER OF (INITIAL_DIRECTION_OF_TRAVEL=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	476	6.247	
All 2005-Only 2005-Homologated.csv	574	7.534	
All 2006-Only 2006-Homologated.csv	569	7.468	
All 2007-Only 2007-Homologated.csv	601	7.888	
All 2008-Only 2008-	609	7.993	

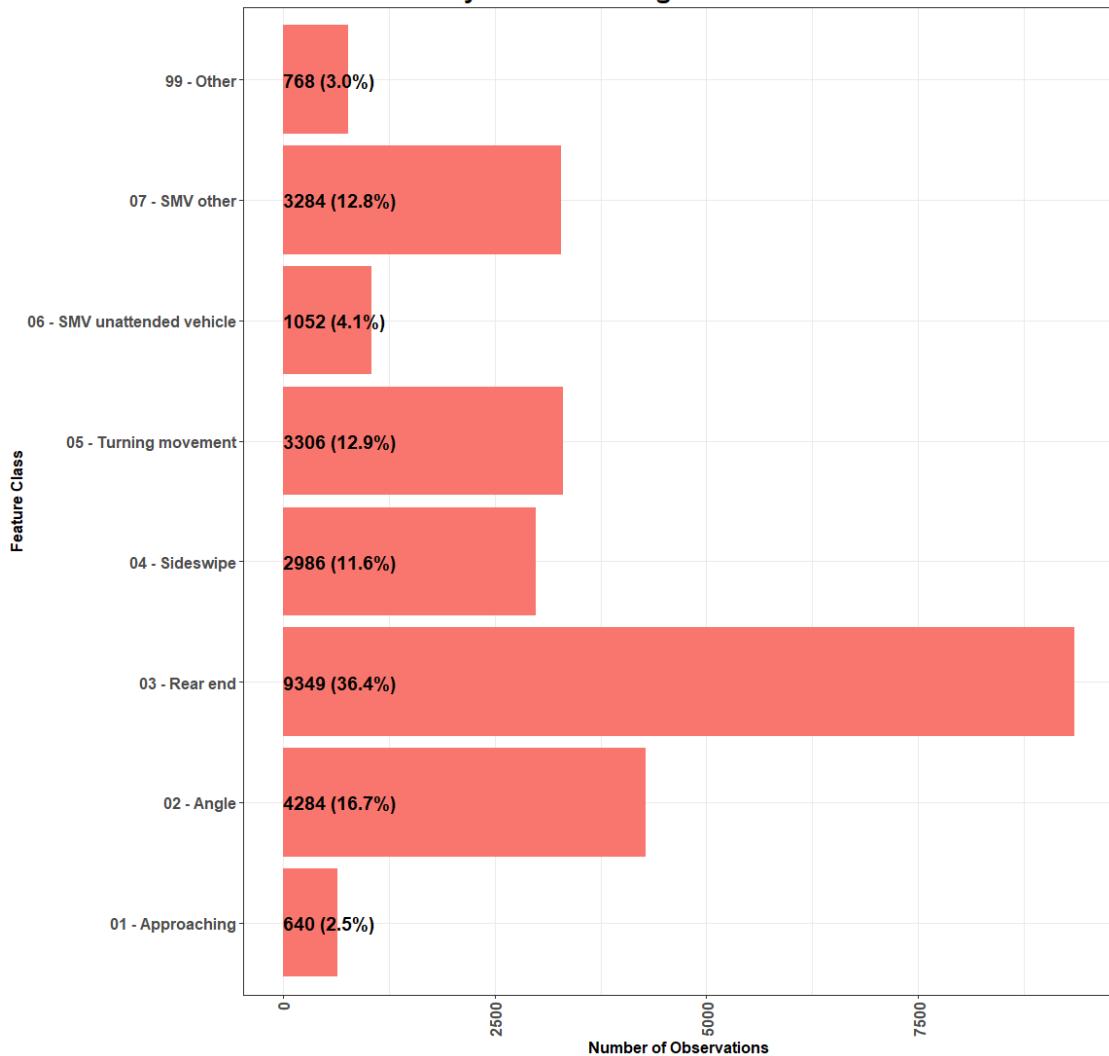
Homologated.csv		
All 2009-Only 2009-Homologated.csv	614	8.059
All 2010-Only 2010-Homologated.csv	490	6.431
All 2011-Only 2011-Homologated.csv	558	7.324
All 2012-Only 2012-Homologated.csv	560	7.350
All 2013-Only 2013-Homologated.csv	509	6.681
All 2014-Only 2014-Homologated.csv	465	6.103
All 2015-Only 2015-Homologated.csv	482	6.326
All 2016-Only 2016-Homologated.csv	557	7.311
All 2017-Only 2017-Homologated.csv	555	7.284

8. Initial Impact Type (INITIAL_IMPACT_TYPE)

```
## 
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 8
##
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE
##
## Feature Value          Counter   Percentage
## -----
## 01 - Approaching      640       2.493
## 02 - Angle             4284      16.689
## 03 - Rear end          9349      36.421
## 04 - Sideswipe         2986      11.633
## 05 - Turning movement  3306      12.879
## 06 - SMV unattended vehicle 1052      4.098
```

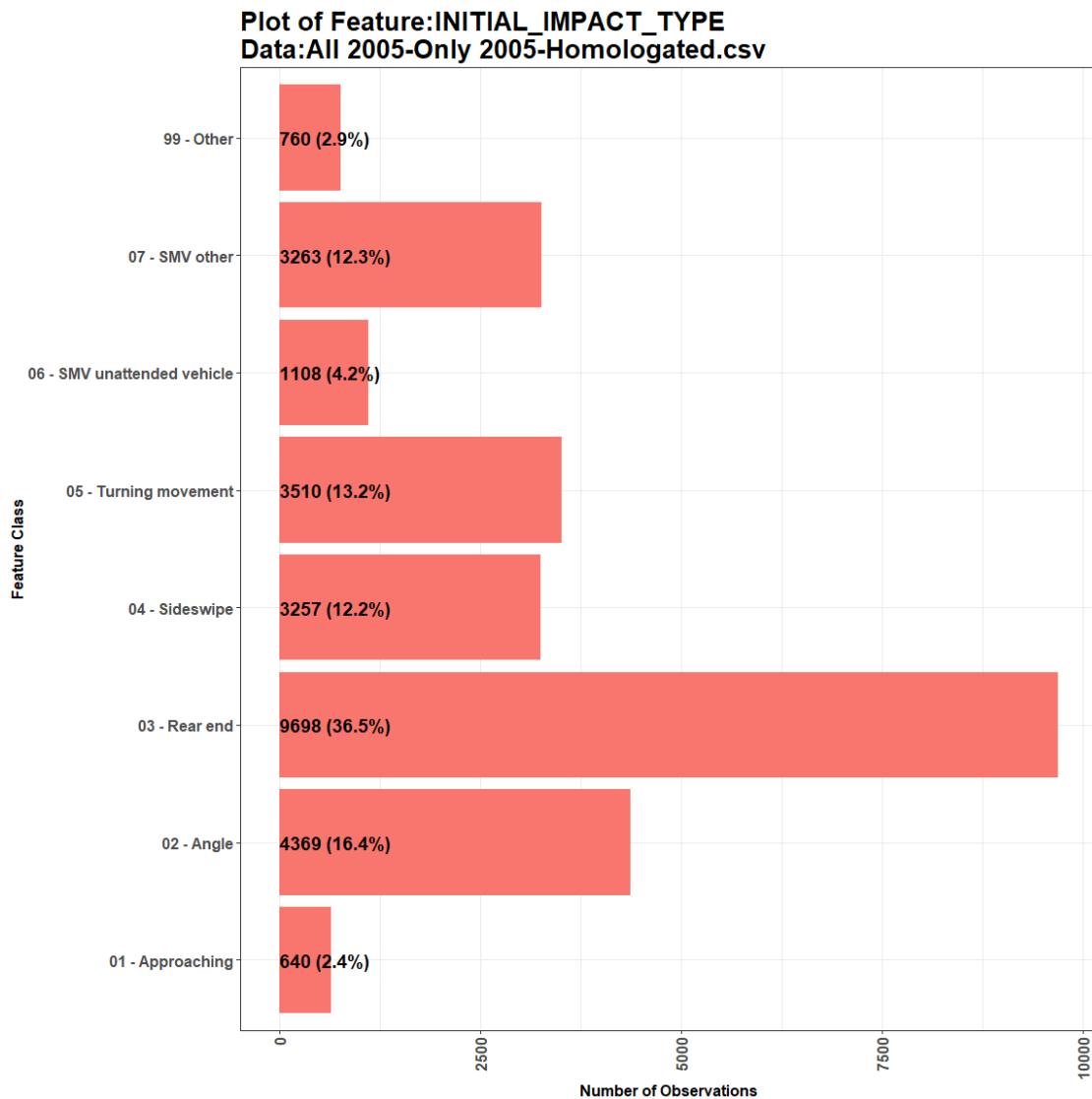
## 07 - SMV other	3284	12.794
## 99 - Other	768	2.992

Plot of Feature:INITIAL_IMPACT_TYPE
Data:All 2004-Only 2004-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 8
##
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE
```

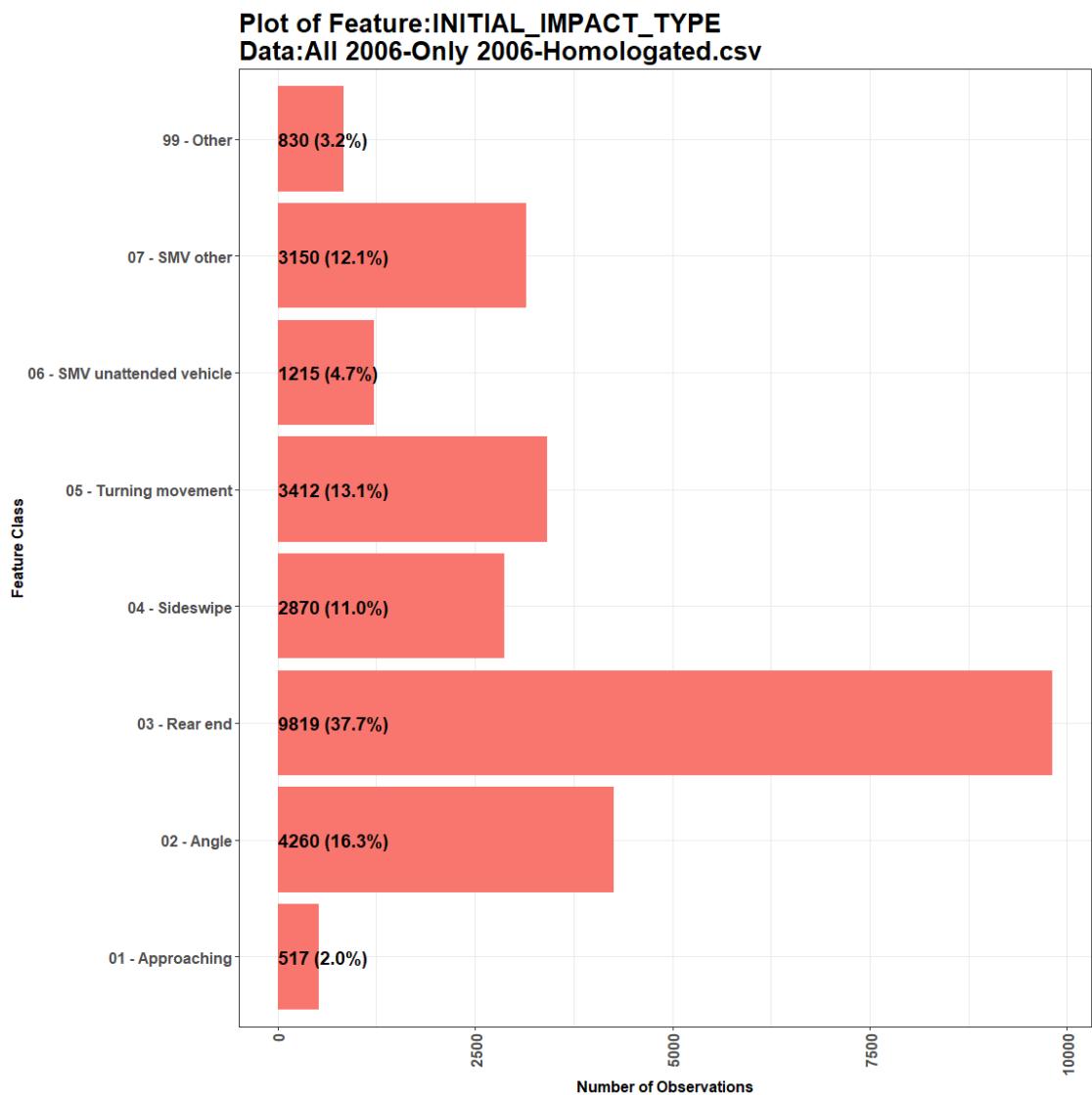
```
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Approaching 640 2.406  
## 02 - Angle 4369 16.422  
## 03 - Rear end 9698 36.452  
## 04 - Sideswipe 3257 12.242  
## 05 - Turning movement 3510 13.193  
## 06 - SMV unattended vehicle 1108 4.165  
## 07 - SMV other 3263 12.265  
## 99 - Other 760 2.857
```



```
##  
## -----  
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
```



```
## DATA:All 2006-Only 2006-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 8
## 
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE
## 
## Feature Value          Counter   Percentage
## -----
## 01 - Approaching      517       1.983
## 02 - Angle             4260      16.339
## 03 - Rear end          9819      37.660
## 04 - Sideswipe         2870      11.008
## 05 - Turning movement  3412      13.086
## 06 - SMV unattended vehicle 1215      4.660
## 07 - SMV other          3150      12.082
## 99 - Other              830       3.183
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_IMPACT_TYPE  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  

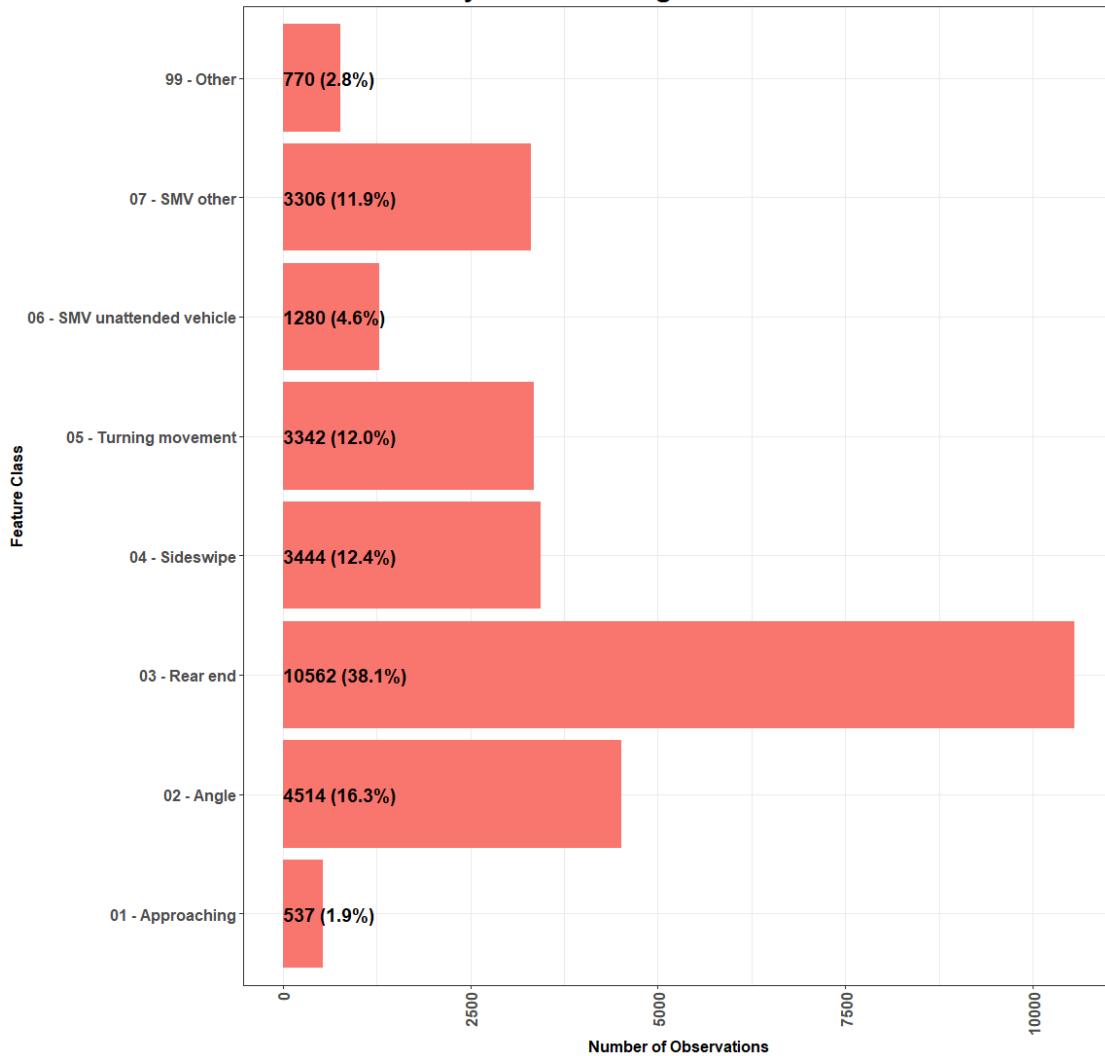
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Approaching	537	1.935
## 02 - Angle	4514	16.264
## 03 - Rear end	10562	38.054
## 04 - Sideswipe	3444	12.409
## 05 - Turning movement	3342	12.041
## 06 - SMV unattended vehicle	1280	4.612
## 07 - SMV other	3306	11.911
## 99 - Other	770	2.774

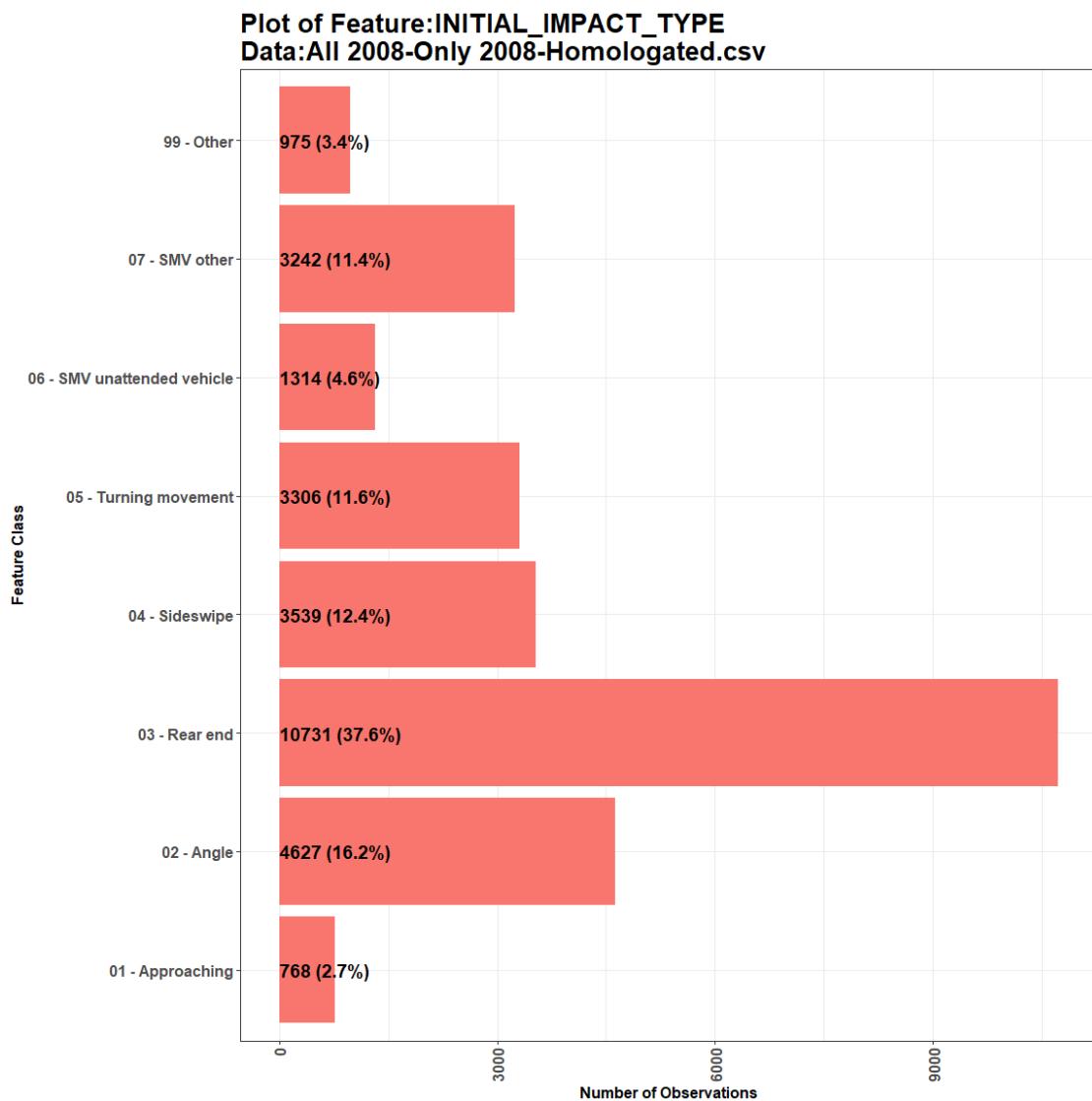
Plot of Feature:INITIAL_IMPACT_TYPE
Data:All 2007-Only 2007-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
```



```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Approaching 768 2.695  
## 02 - Angle 4627 16.234  
## 03 - Rear end 10731 37.650  
## 04 - Sideswipe 3539 12.417  
## 05 - Turning movement 3306 11.599  
## 06 - SMV unattended vehicle 1314 4.610  
## 07 - SMV other 3242 11.375  
## 99 - Other 975 3.421
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_IMPACT_TYPE  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  

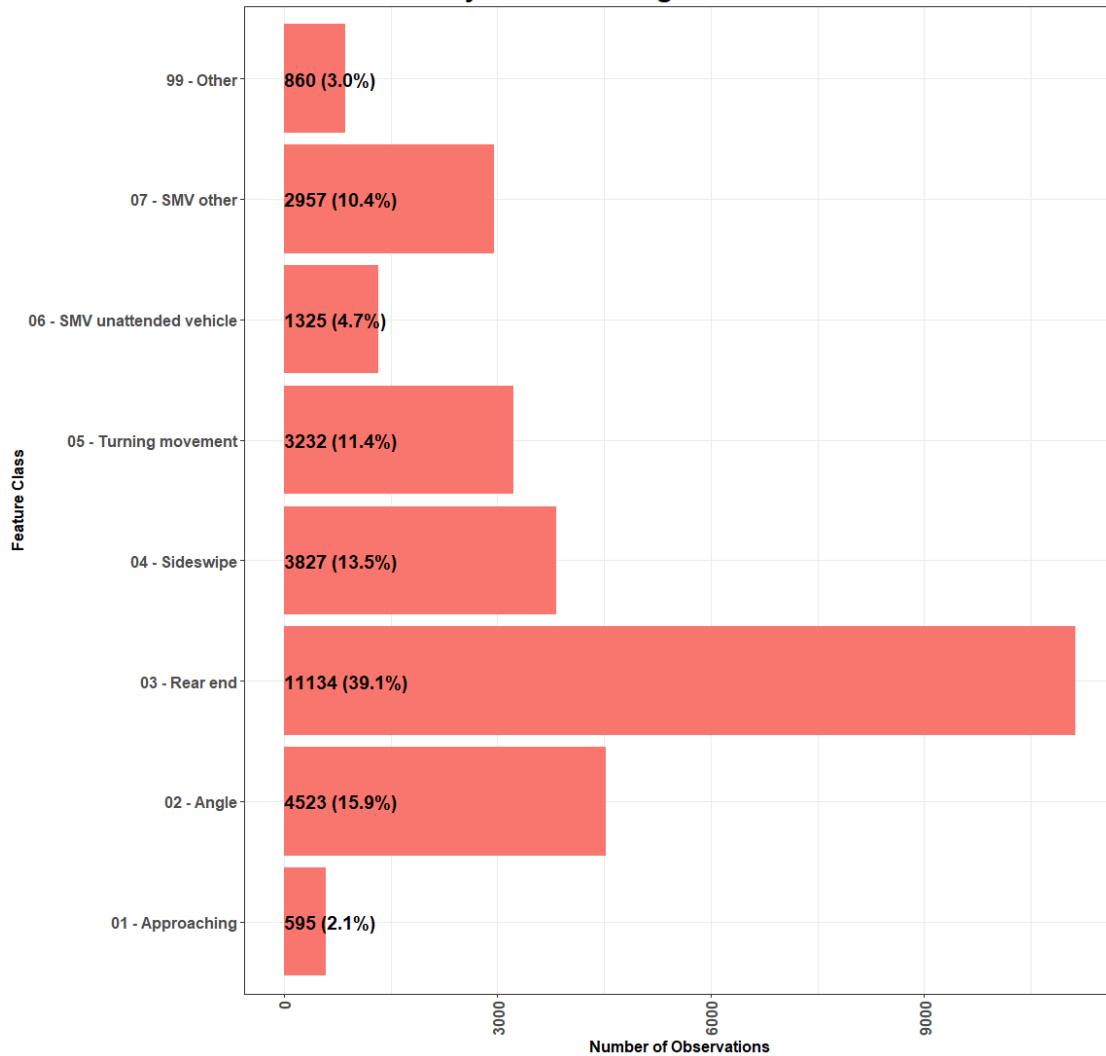
##  

## Feature Value Counter Percentage  

## -----
```

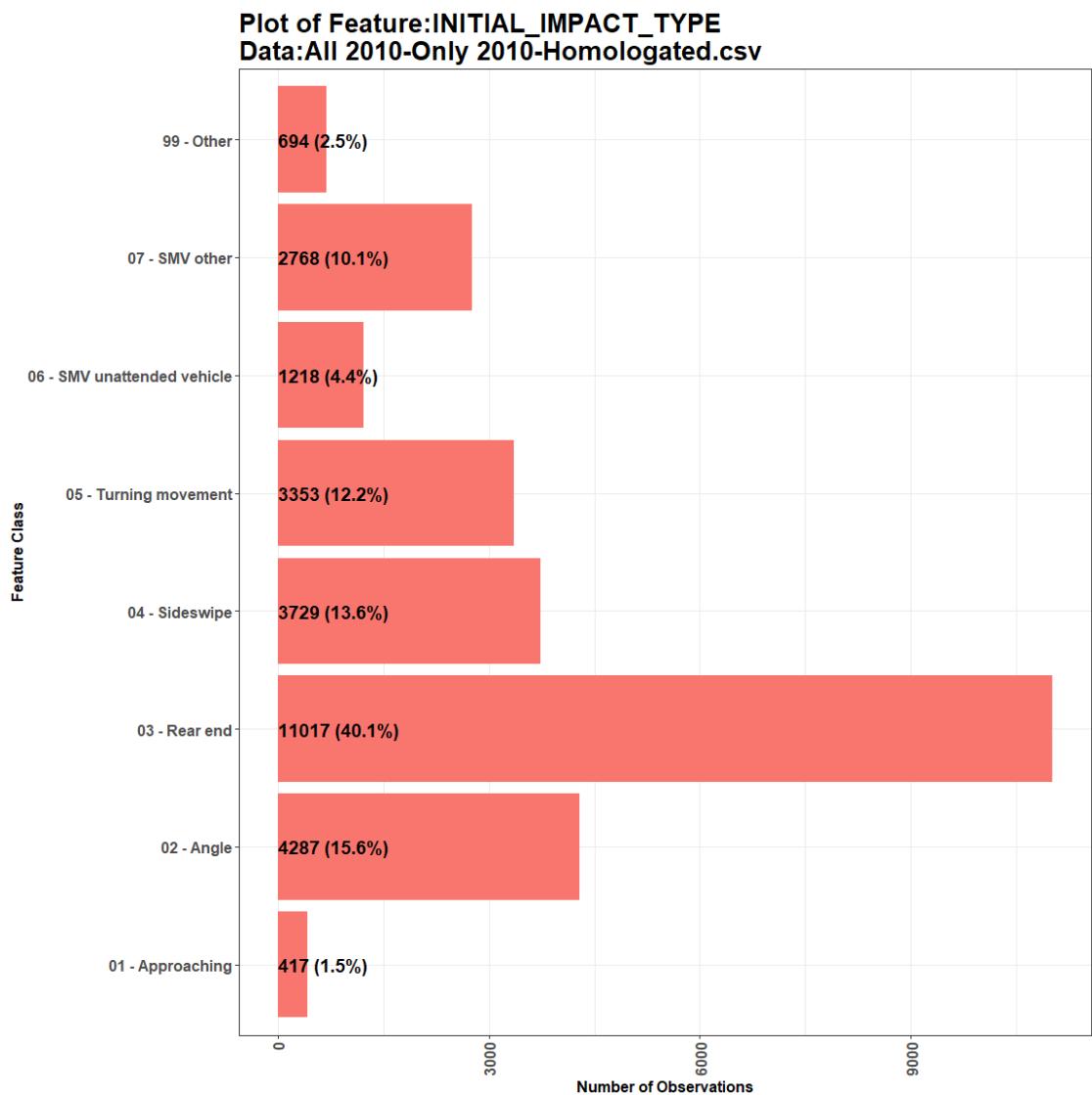
## 01 - Approaching	595	2.091
## 02 - Angle	4523	15.896
## 03 - Rear end	11134	39.131
## 04 - Sideswipe	3827	13.450
## 05 - Turning movement	3232	11.359
## 06 - SMV unattended vehicle	1325	4.657
## 07 - SMV other	2957	10.393
## 99 - Other	860	3.022

Plot of Feature:INITIAL_IMPACT_TYPE
Data:All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
```

```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Approaching 417 1.517  
## 02 - Angle 4287 15.599  
## 03 - Rear end 11017 40.087  
## 04 - Sideswipe 3729 13.568  
## 05 - Turning movement 3353 12.200  
## 06 - SMV unattended vehicle 1218 4.432  
## 07 - SMV other 2768 10.072  
## 99 - Other 694 2.525
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_IMPACT_TYPE  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  

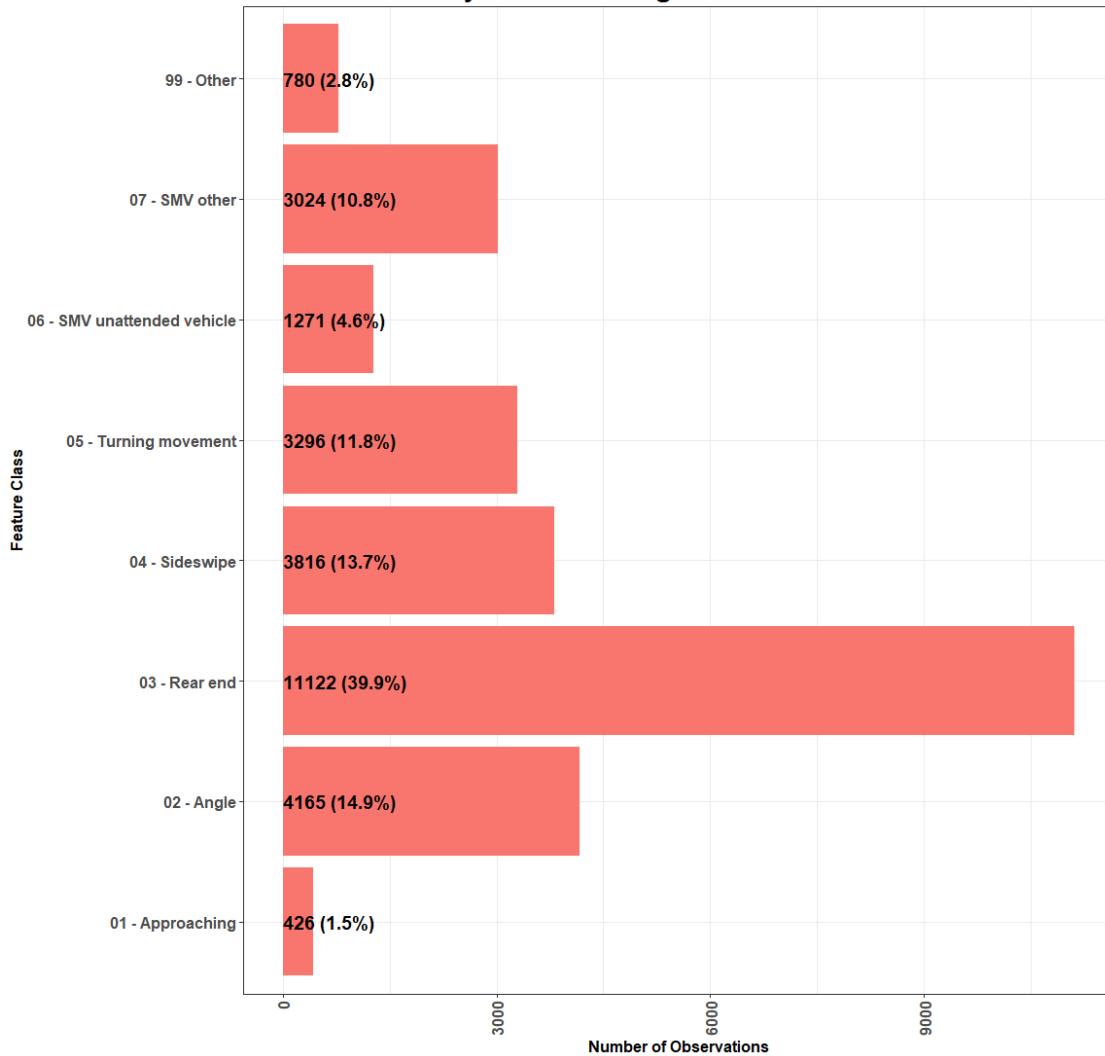
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Approaching	426	1.527
## 02 - Angle	4165	14.928
## 03 - Rear end	11122	39.864
## 04 - Sideswipe	3816	13.677
## 05 - Turning movement	3296	11.814
## 06 - SMV unattended vehicle	1271	4.556
## 07 - SMV other	3024	10.839
## 99 - Other	780	2.796

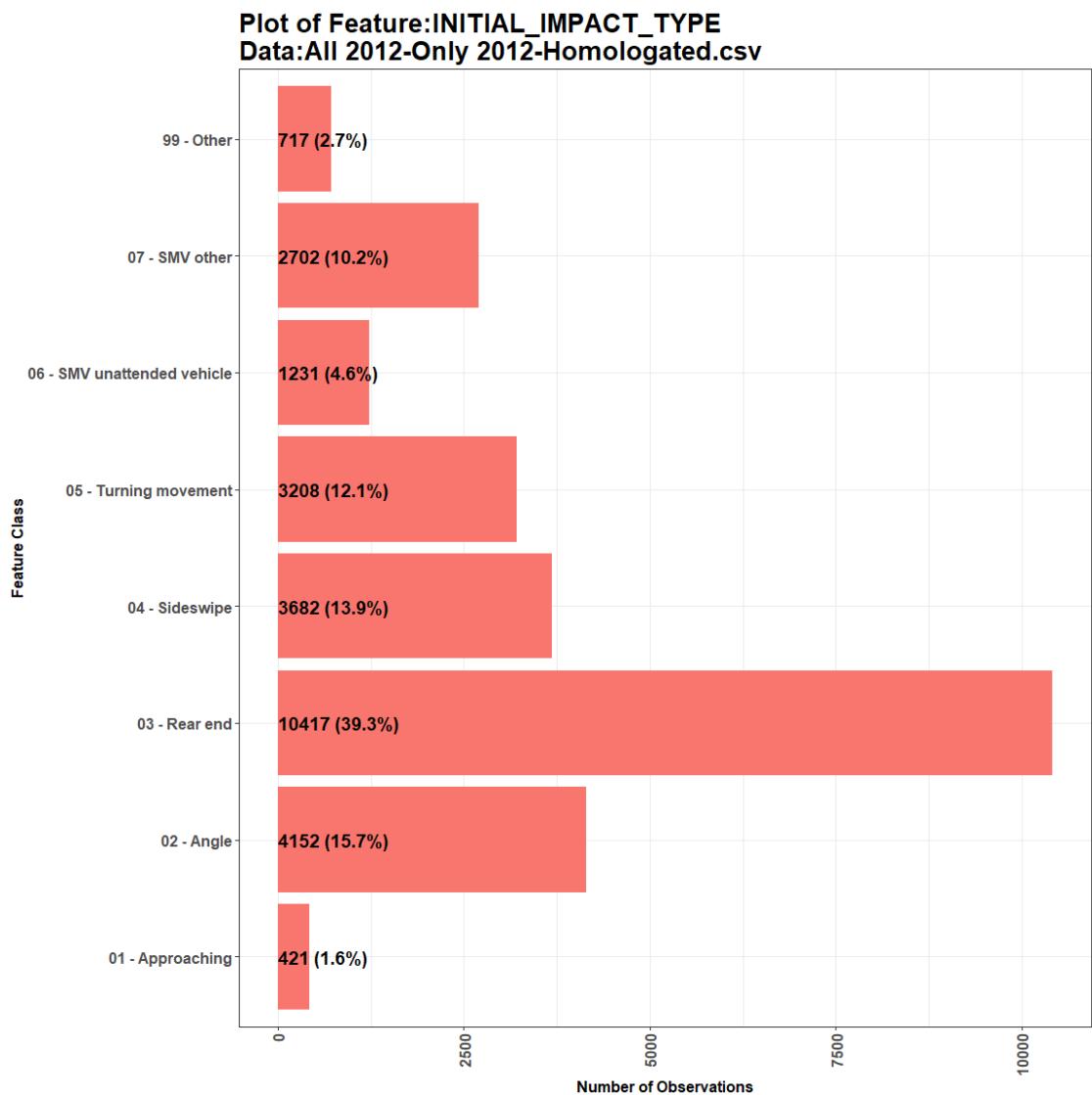
Plot of Feature:INITIAL_IMPACT_TYPE
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
```



```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Approaching 421 1.587  
## 02 - Angle 4152 15.650  
## 03 - Rear end 10417 39.265  
## 04 - Sideswipe 3682 13.879  
## 05 - Turning movement 3208 12.092  
## 06 - SMV unattended vehicle 1231 4.640  
## 07 - SMV other 2702 10.185  
## 99 - Other 717 2.703
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_IMPACT_TYPE  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  

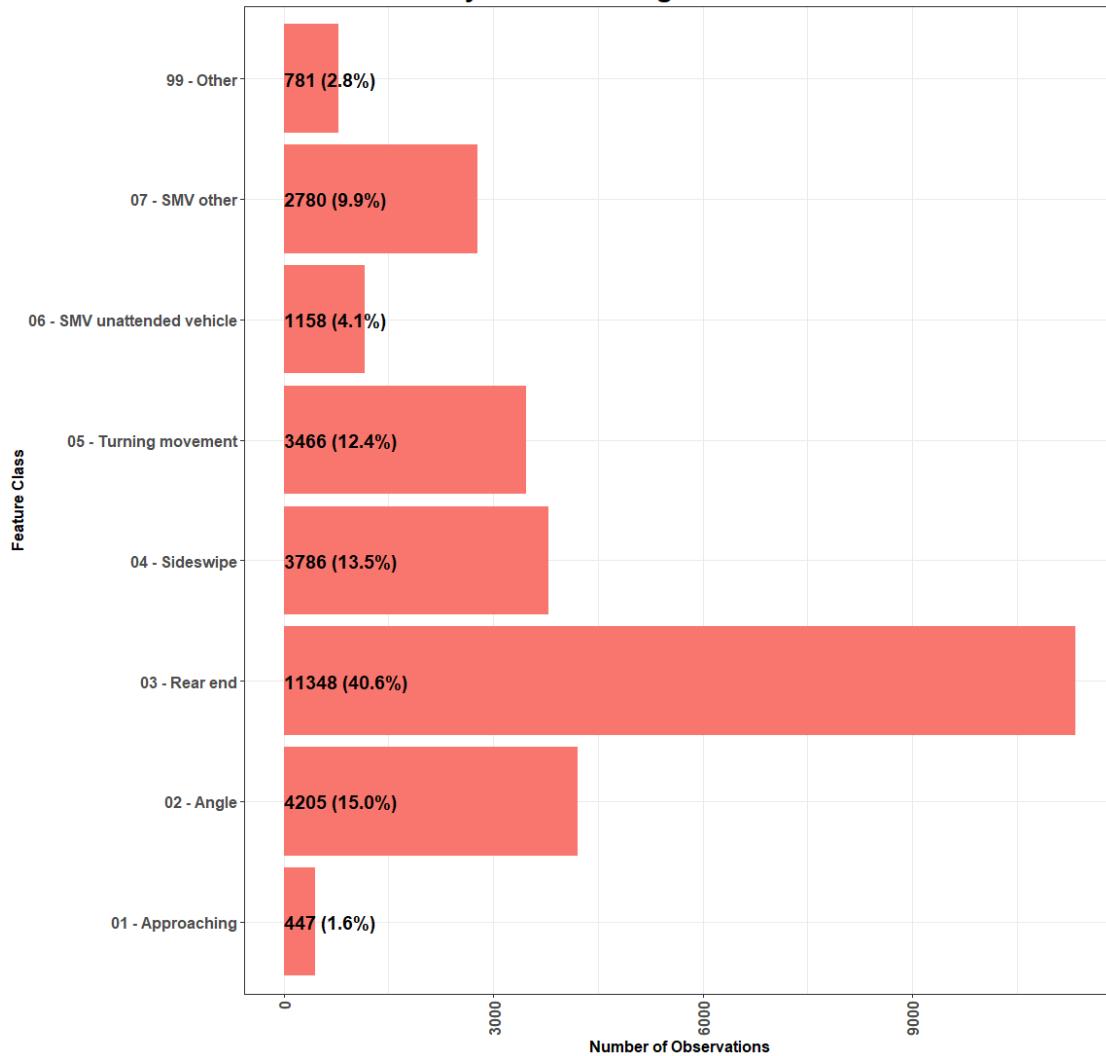
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Approaching	447	1.598
## 02 - Angle	4205	15.033
## 03 - Rear end	11348	40.571
## 04 - Sideswipe	3786	13.535
## 05 - Turning movement	3466	12.391
## 06 - SMV unattended vehicle	1158	4.140
## 07 - SMV other	2780	9.939
## 99 - Other	781	2.792

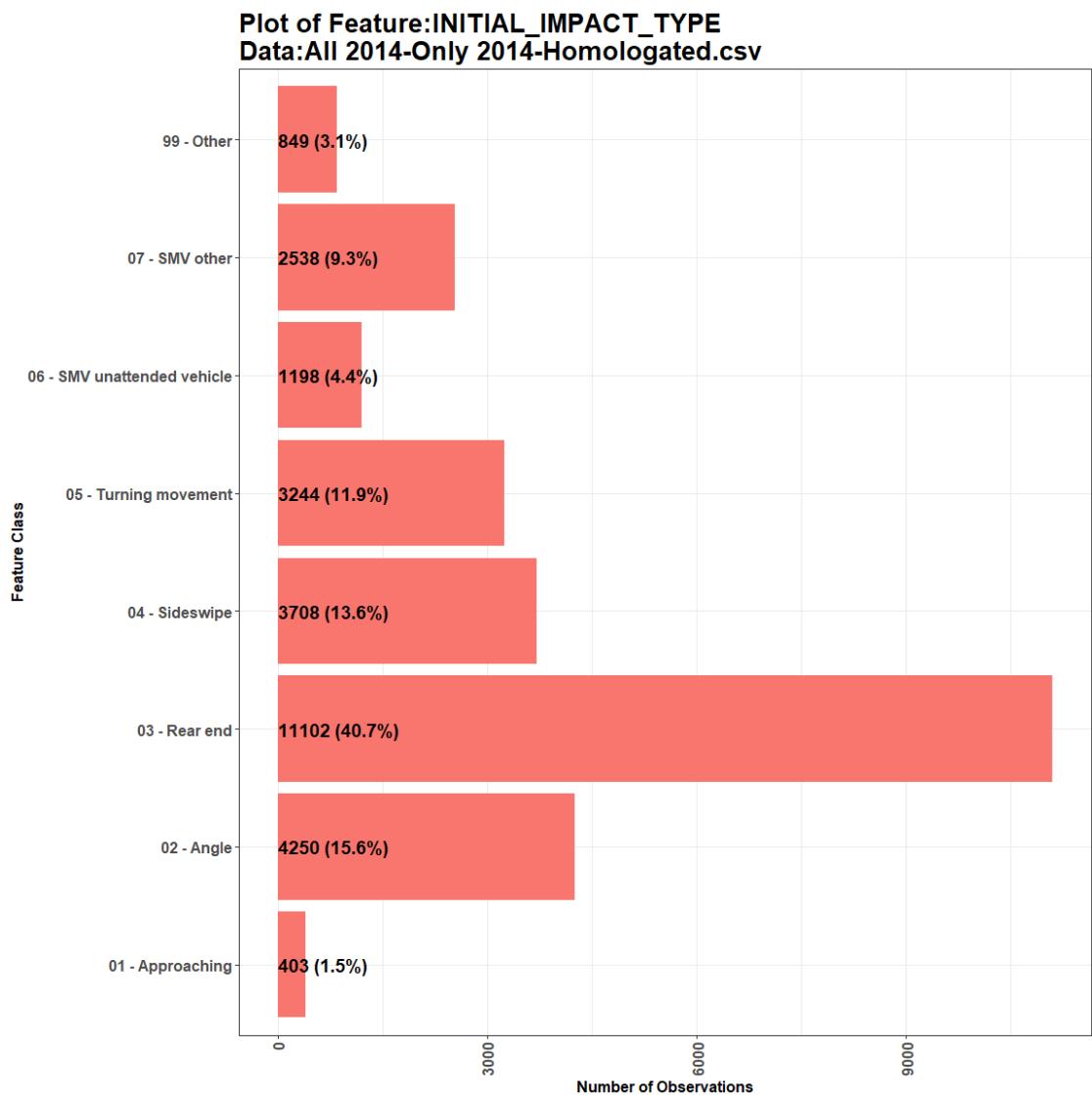
Plot of Feature:INITIAL_IMPACT_TYPE
Data:All 2013-Only 2013-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
```



```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Approaching 403 1.477  
## 02 - Angle 4250 15.572  
## 03 - Rear end 11102 40.679  
## 04 - Sideswipe 3708 13.586  
## 05 - Turning movement 3244 11.886  
## 06 - SMV unattended vehicle 1198 4.390  
## 07 - SMV other 2538 9.299  
## 99 - Other 849 3.111
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_IMPACT_TYPE  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:1  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  

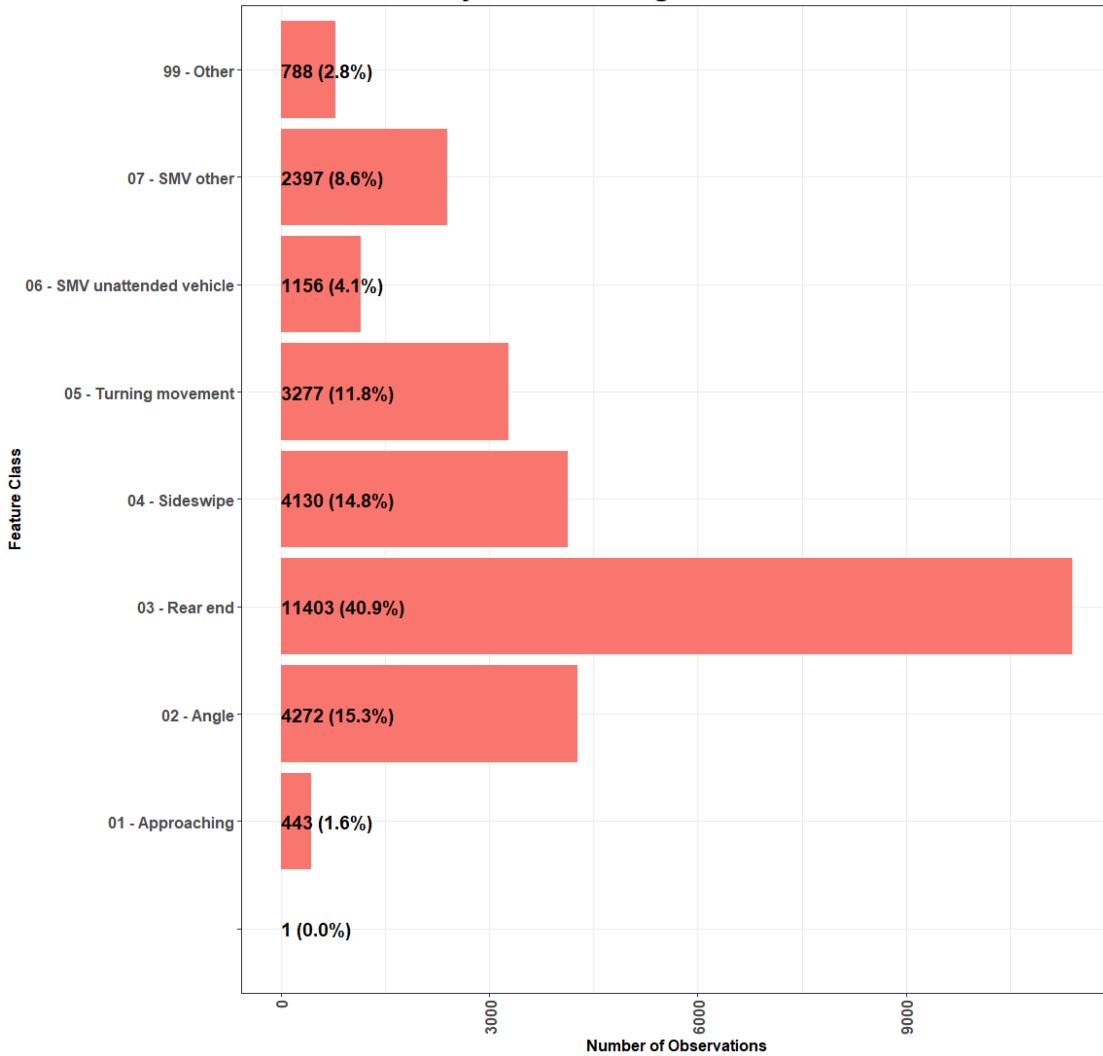
##  

## Feature Value Counter Percentage  

## -----
```

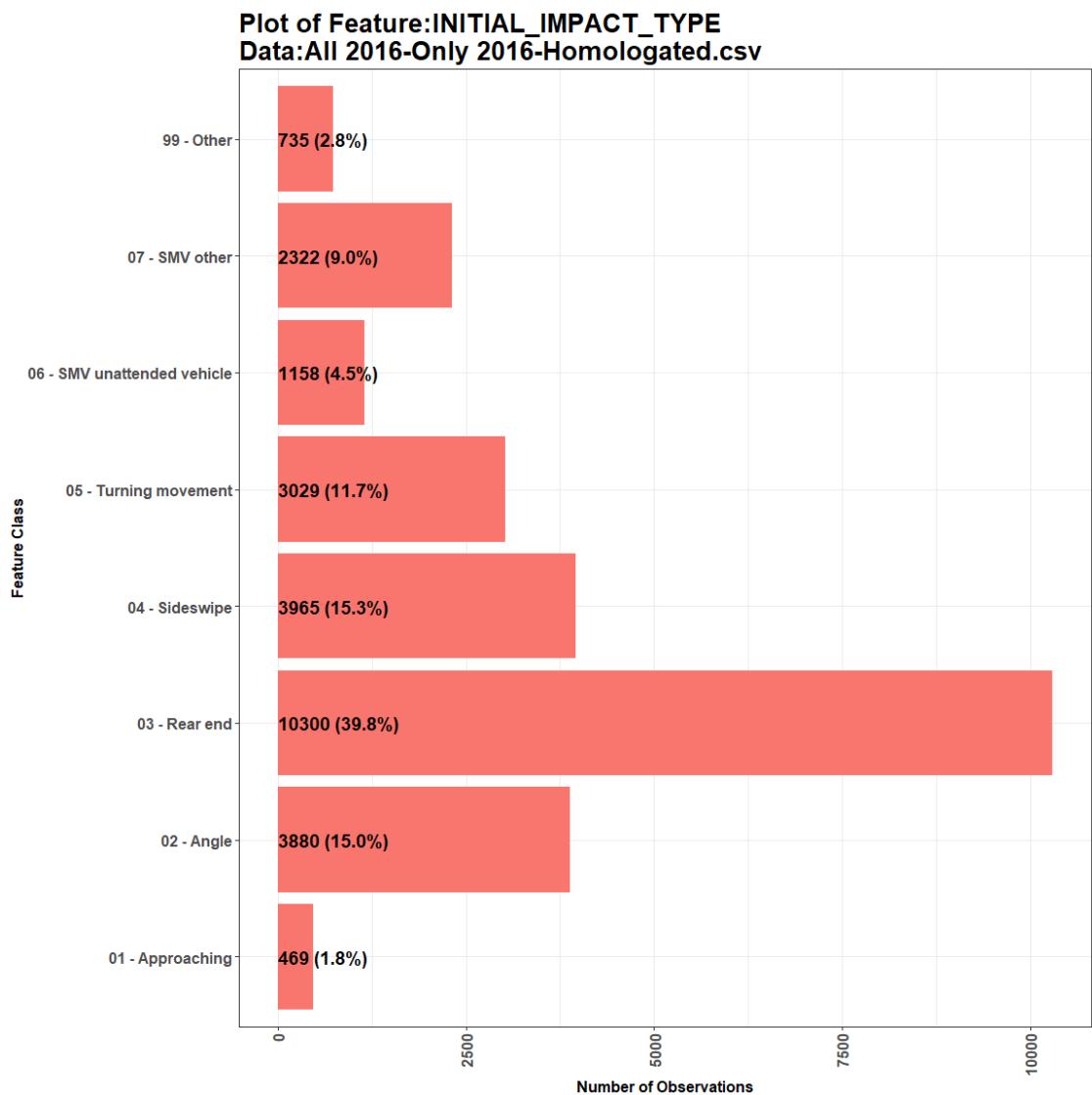
##	1	0.0036
## 01 - Approaching	443	1.5897
## 02 - Angle	4272	15.3300
## 03 - Rear end	11403	40.9194
## 04 - Sideswipe	4130	14.8204
## 05 - Turning movement	3277	11.7594
## 06 - SMV unattended vehicle	1156	4.1483
## 07 - SMV other	2397	8.6016
## 99 - Other	788	2.8277

Plot of Feature:INITIAL_IMPACT_TYPE
Data>All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:INITIAL_IMPACT_TYPE
## DATA>All 2016-Only 2016-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 8
##
## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE
##
## Feature Value          Counter   Percentage
## ----- - -----
## 01 - Approaching        469      1.814
## 02 - Angle               3880     15.005
## 03 - Rear end            10300    39.833
## 04 - Sideswipe           3965     15.334
## 05 - Turning movement    3029     11.714
## 06 - SMV unattended vehicle 1158     4.478
## 07 - SMV other            2322     8.980
## 99 - Other                735      2.842
```



```
##  

## -----  

## CHECKING FEATURE:INITIAL_IMPACT_TYPE  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF INITIAL_IMPACT_TYPE  

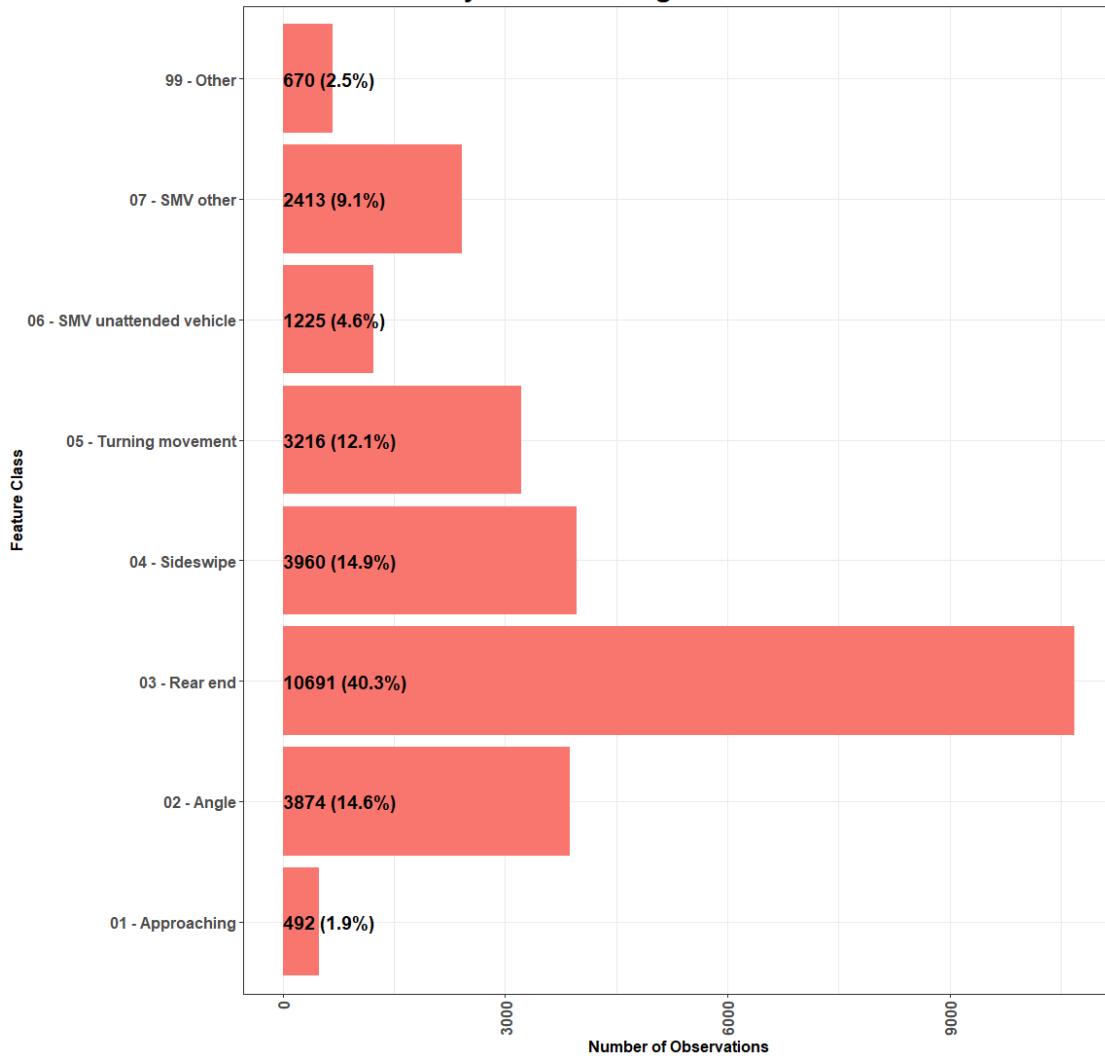
##  

## Feature Value Counter Percentage  

## -----
```

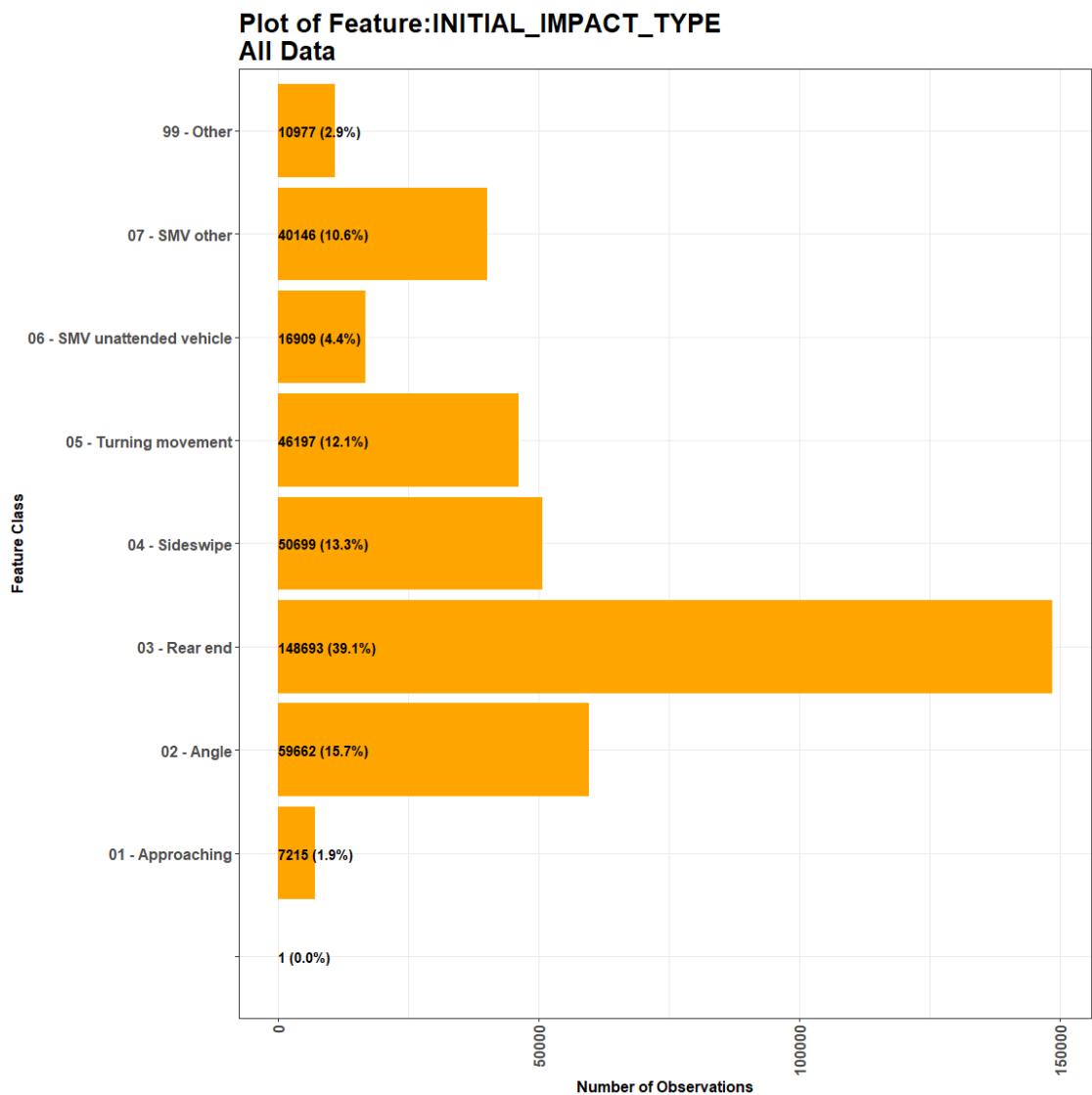
## 01 - Approaching	492	1.854
## 02 - Angle	3874	14.596
## 03 - Rear end	10691	40.281
## 04 - Sideswipe	3960	14.920
## 05 - Turning movement	3216	12.117
## 06 - SMV unattended vehicle	1225	4.615
## 07 - SMV other	2413	9.092
## 99 - Other	670	2.524

Plot of Feature:INITIAL_IMPACT_TYPE
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:INITIAL_IMPACT_TYPE
## ALL DATA...
## =====
##
```

```
## Number of Blank Values:1
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 25669 26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 26073 27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 28502 28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 27483 27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 26530 27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 27292 27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 25858 26541
##
## Summary as Factor Feature:
## Number of Features: 9
```

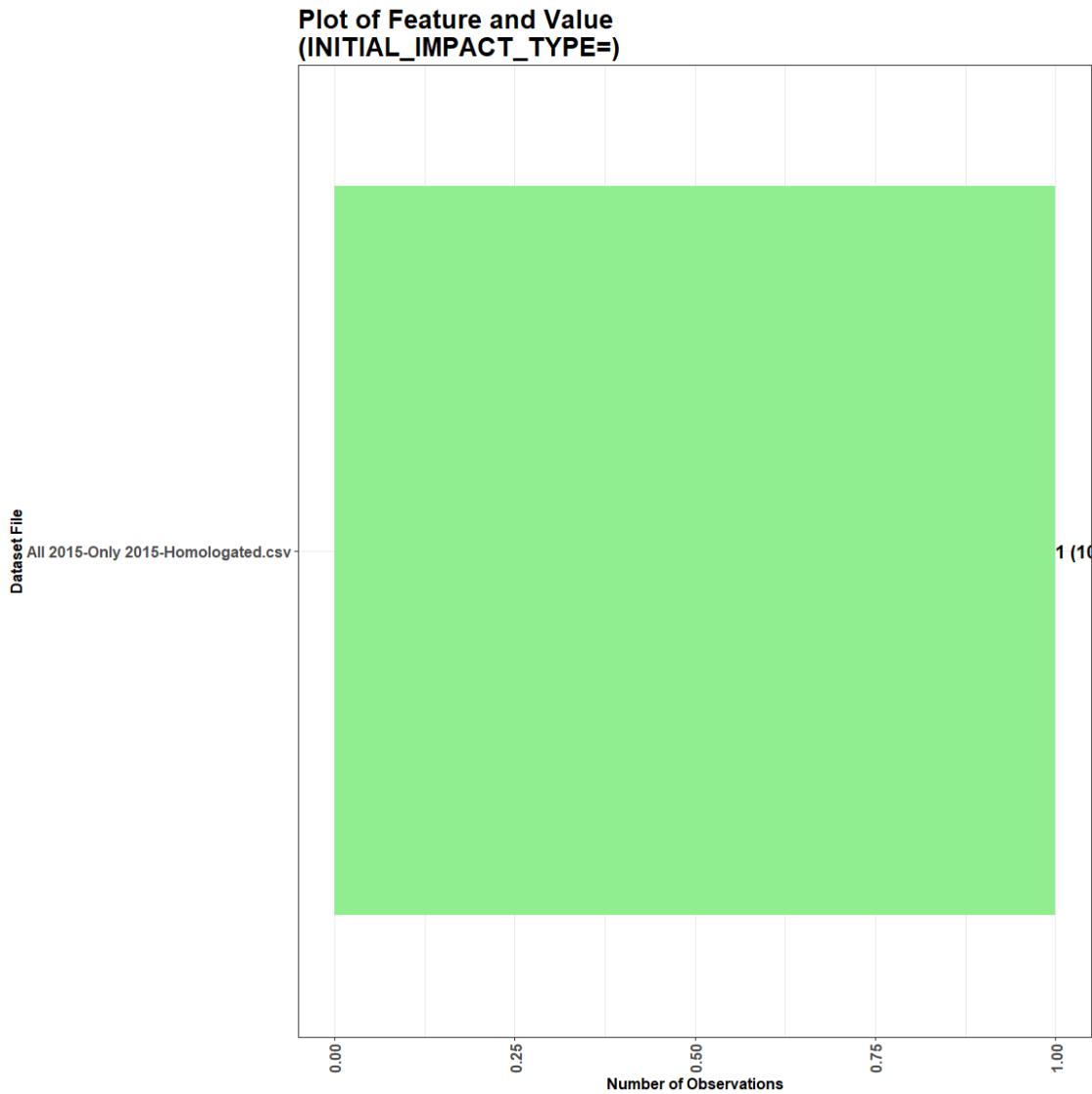


```
## [1] "TOP 100 FEATURES COUNTERS OF:INITIAL_IMPACT_TYPE"
```

Feature Value	Counter	Percentage
	1	0.0003
01 - Approaching	7215	1.8962
02 - Angle	59662	15.6799
03 - Rear end	148693	39.0784
04 - Sideswipe	50699	13.3243
05 - Turning movement	46197	12.1412
06 - SMV unattended vehicle	16909	4.4439
07 - SMV other	40146	10.5509
99 - Other	10977	2.8849

8.1 INITIAL_IMPACT_TYPE = "" (Blank)

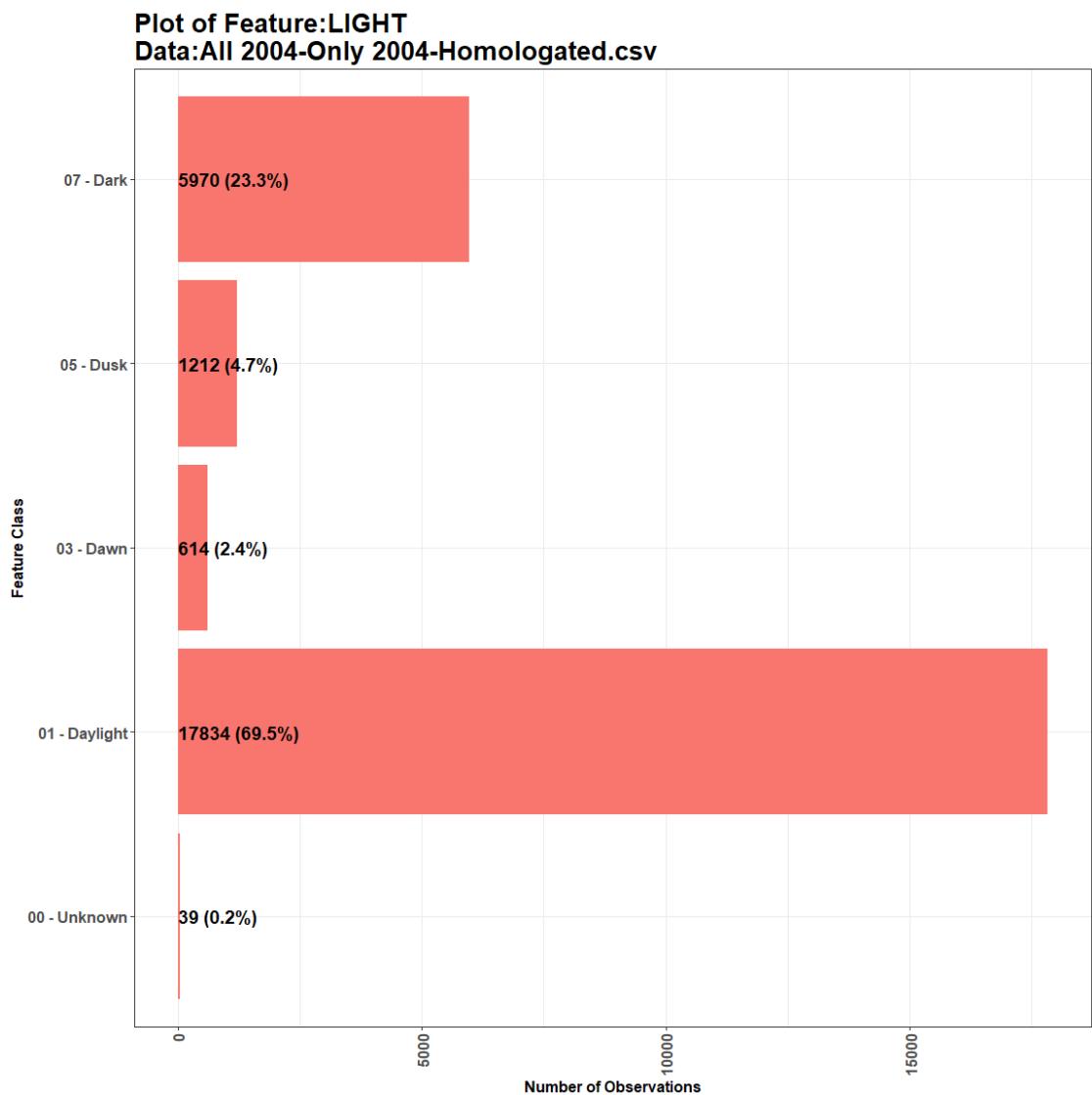
```
##  
## =====  
## CHECKING FEATURE AND VALUE (INITIAL_IMPACT_TYPE=)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
## 1
```



DATASET FILE	COUNTER OF (INITIAL_IMPACT_TYPE=)	Percentage
All 2015-Only 2015-Homologated.csv	1	100

9. Light (LIGHT)

```
##  
## -----  
## CHECKING FEATURE:LIGHT  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF LIGHT  
##  
## Feature Value Counter Percentage  
## ----- -----  
## 00 - Unknown 39 0.1519  
## 01 - Daylight 17834 69.4768  
## 03 - Dawn 614 2.3920  
## 05 - Dusk 1212 4.7216  
## 07 - Dark 5970 23.2576
```



```
##  

## -----  

## CHECKING FEATURE:LIGHT  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

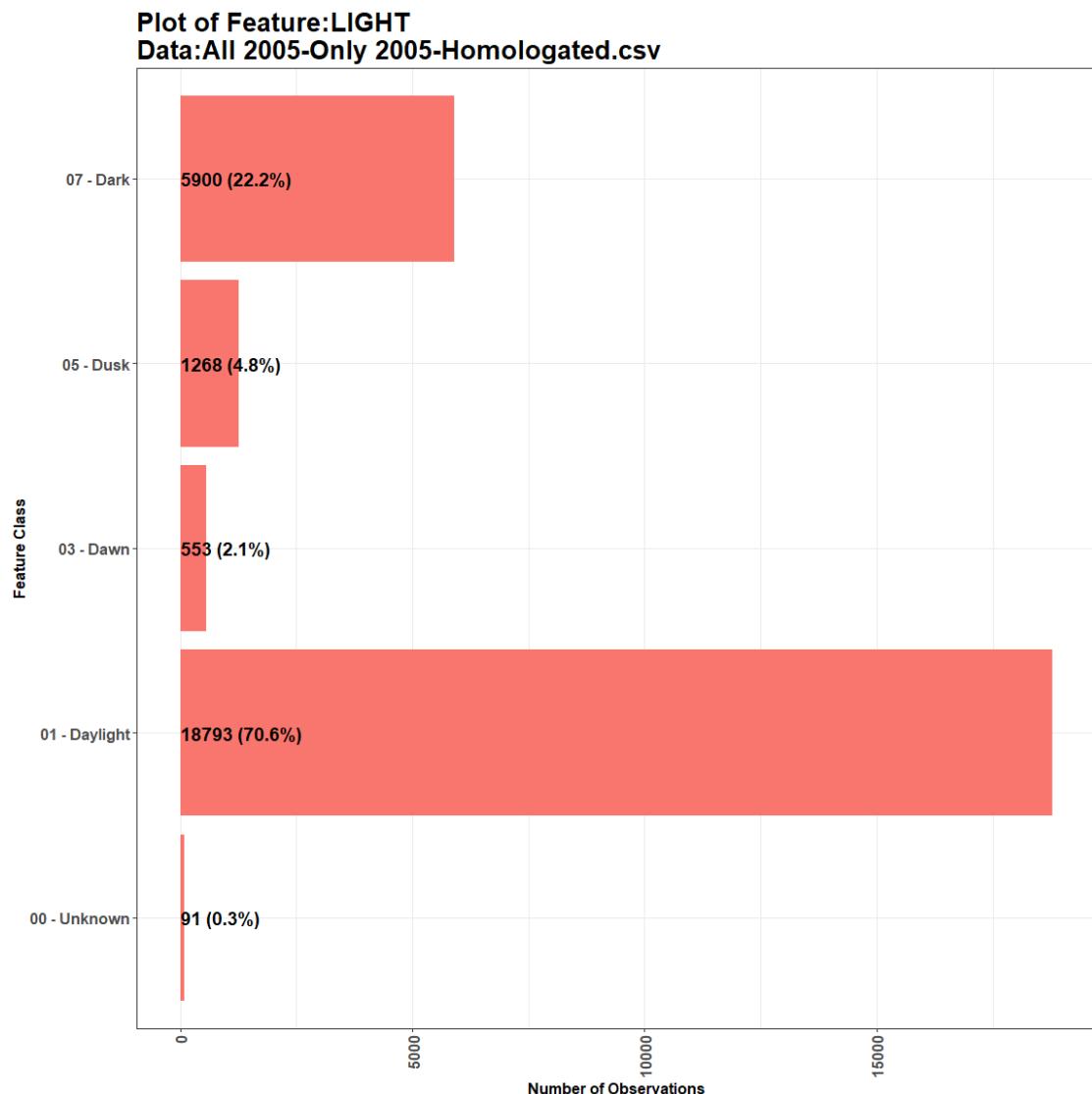
## TOP 100 FEATURES OF LIGHT  

##  

## Feature Value Counter Percentage  

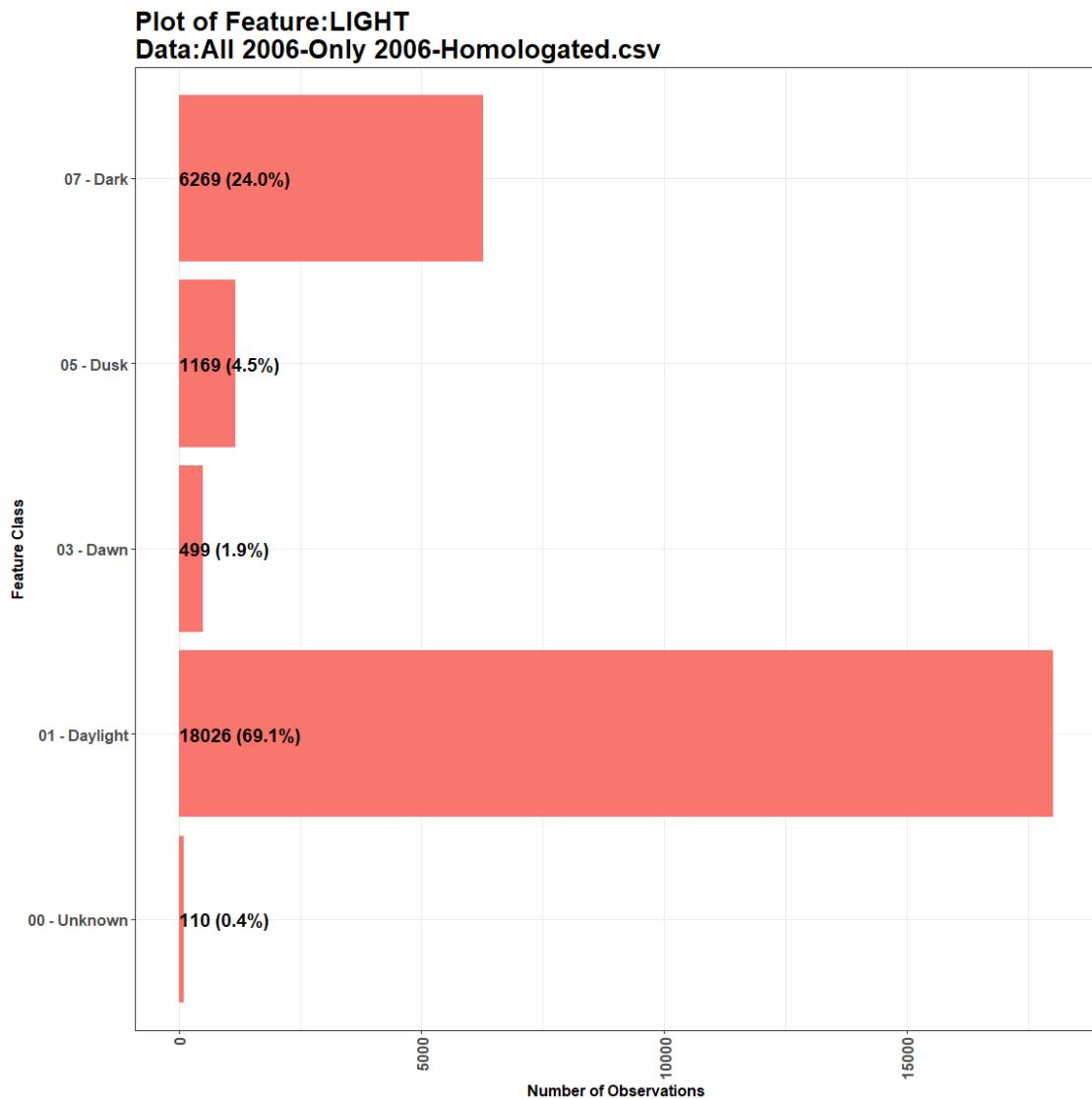
## -----
```

## 00 - Unknown	91	0.342
## 01 - Daylight	18793	70.637
## 03 - Dawn	553	2.079
## 05 - Dusk	1268	4.766
## 07 - Dark	5900	22.176



```
##
## -----
## CHECKING FEATURE:LIGHT
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

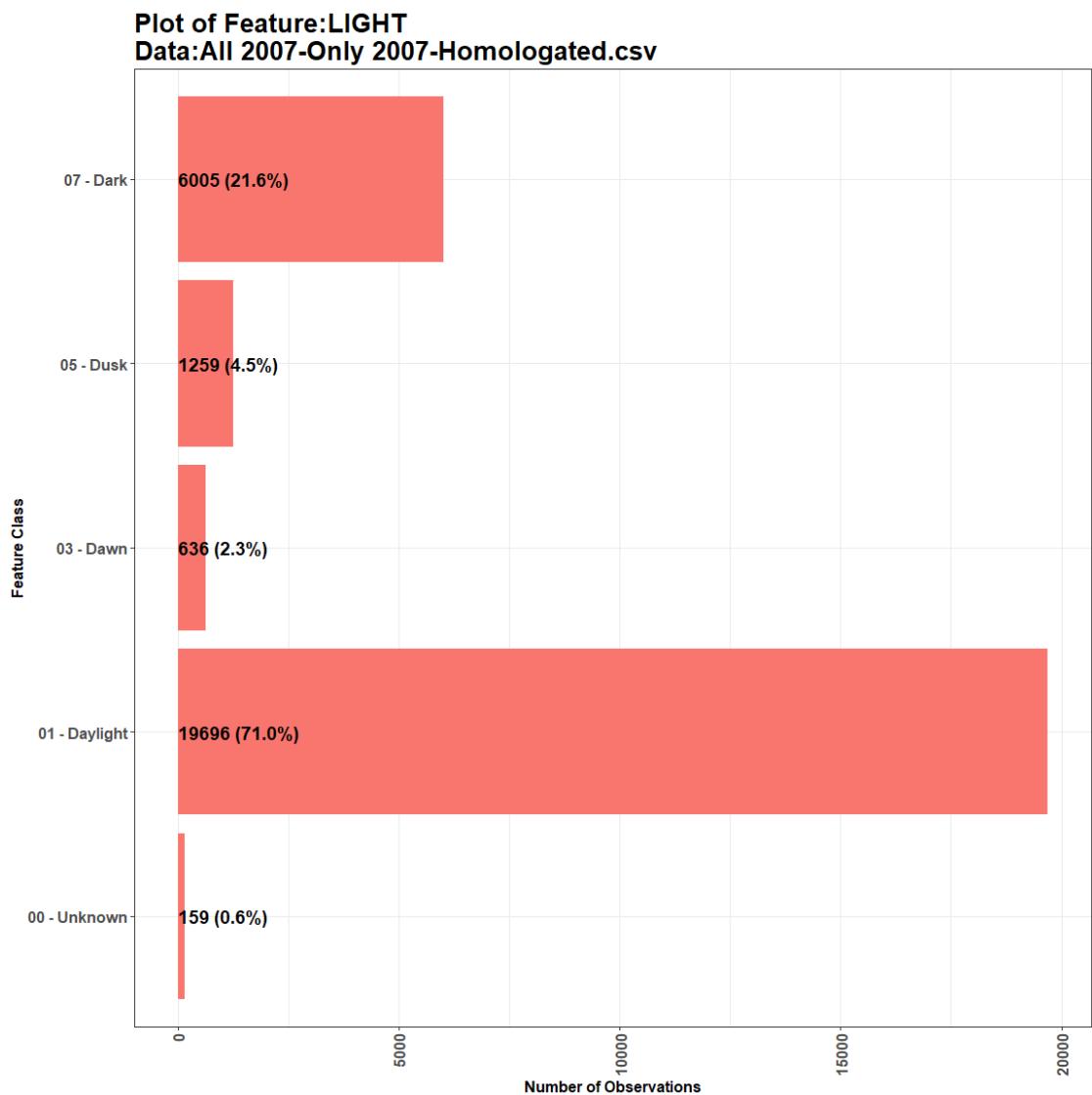
```
## Number of Features: 5
##
## TOP 100 FEATURES OF LIGHT
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 110 0.4219
## 01 - Daylight 18026 69.1367
## 03 - Dawn 499 1.9139
## 05 - Dusk 1169 4.4836
## 07 - Dark 6269 24.0440
```



```
##
## -----
## CHECKING FEATURE:LIGHT
```



```
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF LIGHT
##
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown      159         0.5729
## 01 - Daylight     19696        70.9638
## 03 - Dawn          636         2.2915
## 05 - Dusk          1259        4.5361
## 07 - Dark          6005        21.6357
```



```
##  

## -----  

## CHECKING FEATURE:LIGHT  

## DATA:All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF LIGHT  

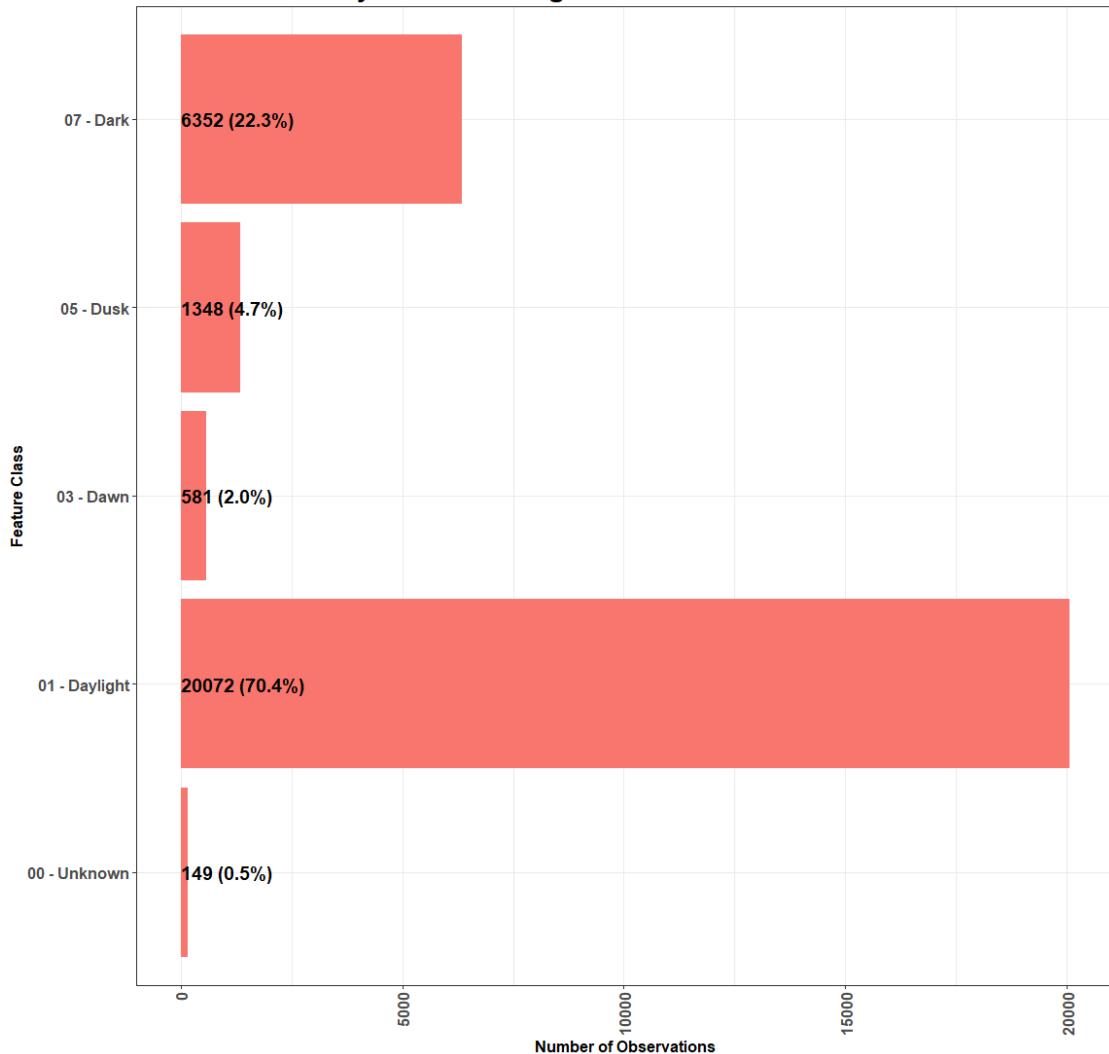
##  

## Feature Value Counter Percentage  

## -----
```

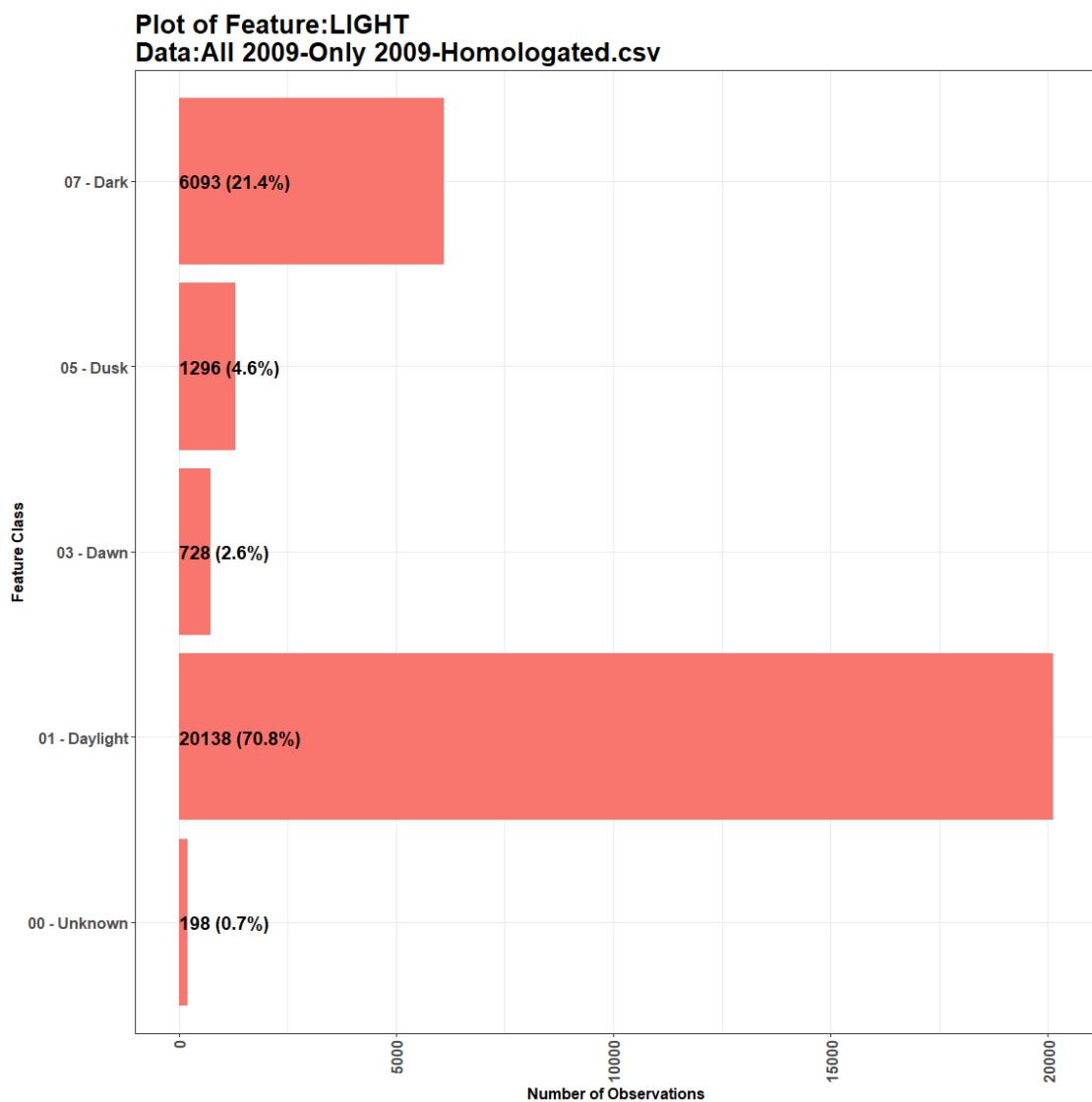
## 00 - Unknown	149	0.5228
## 01 - Daylight	20072	70.4231
## 03 - Dawn	581	2.0385
## 05 - Dusk	1348	4.7295
## 07 - Dark	6352	22.2862

**Plot of Feature:LIGHT
Data:All 2008-Only 2008-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:LIGHT
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

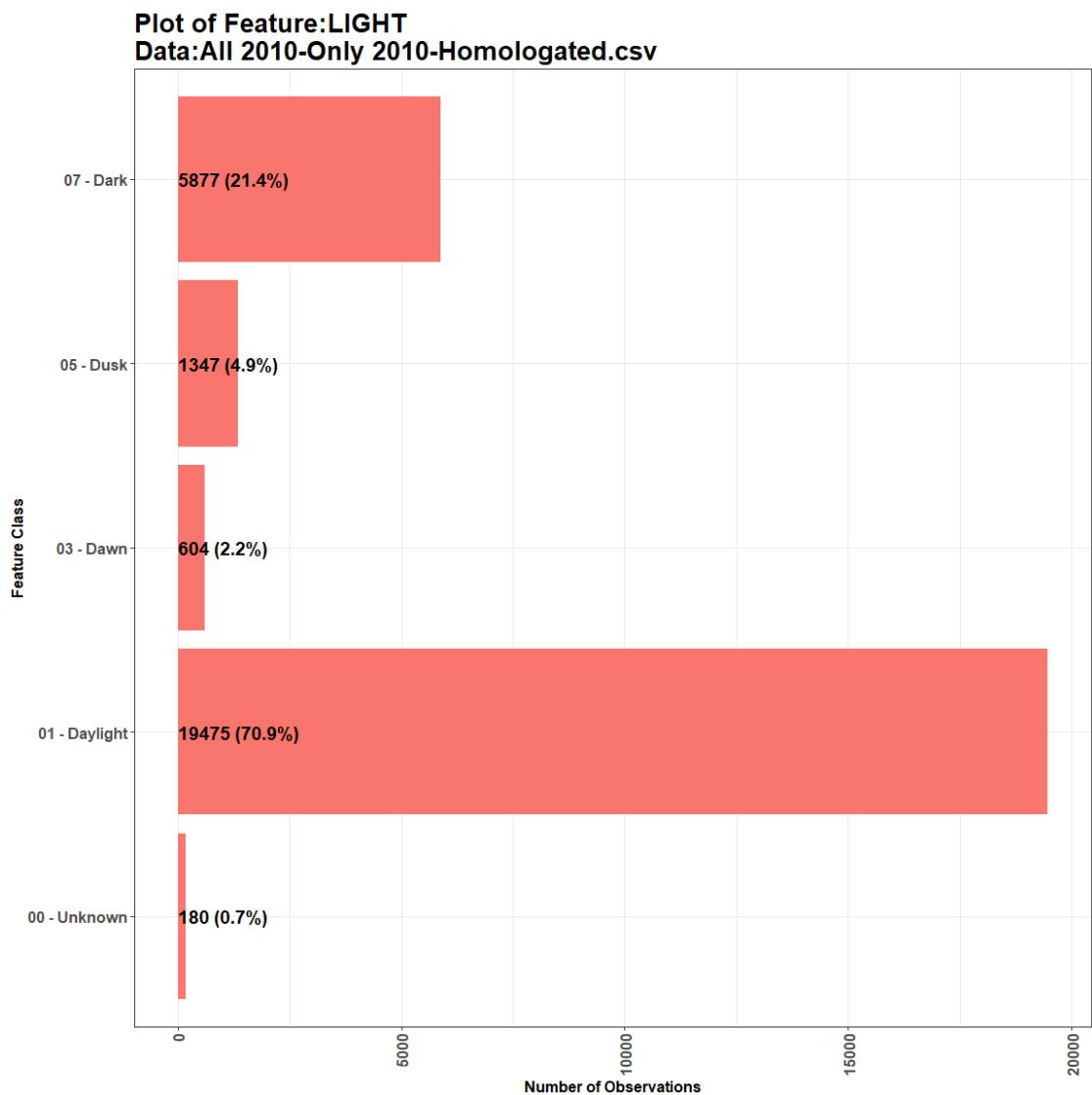
```
## Number of Features: 5
##
## TOP 100 FEATURES OF LIGHT
##
## Feature Value Counter Percentage
## ----- -----
## 00 - Unknown 198 0.6959
## 01 - Daylight 20138 70.7764
## 03 - Dawn 728 2.5586
## 05 - Dusk 1296 4.5549
## 07 - Dark 6093 21.4143
```



```
##
## -----
## CHECKING FEATURE:LIGHT
```



```
## DATA:All 2010-Only 2010-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 5
## 
## TOP 100 FEATURES OF LIGHT
## 
## Feature Value      Counter    Percentage
## ----- -----
## 00 - Unknown        180       0.655
## 01 - Daylight      19475      70.862
## 03 - Dawn           604       2.198
## 05 - Dusk            1347      4.901
## 07 - Dark            5877      21.384
```



```
##  

## -----  

## CHECKING FEATURE:LIGHT  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF LIGHT  

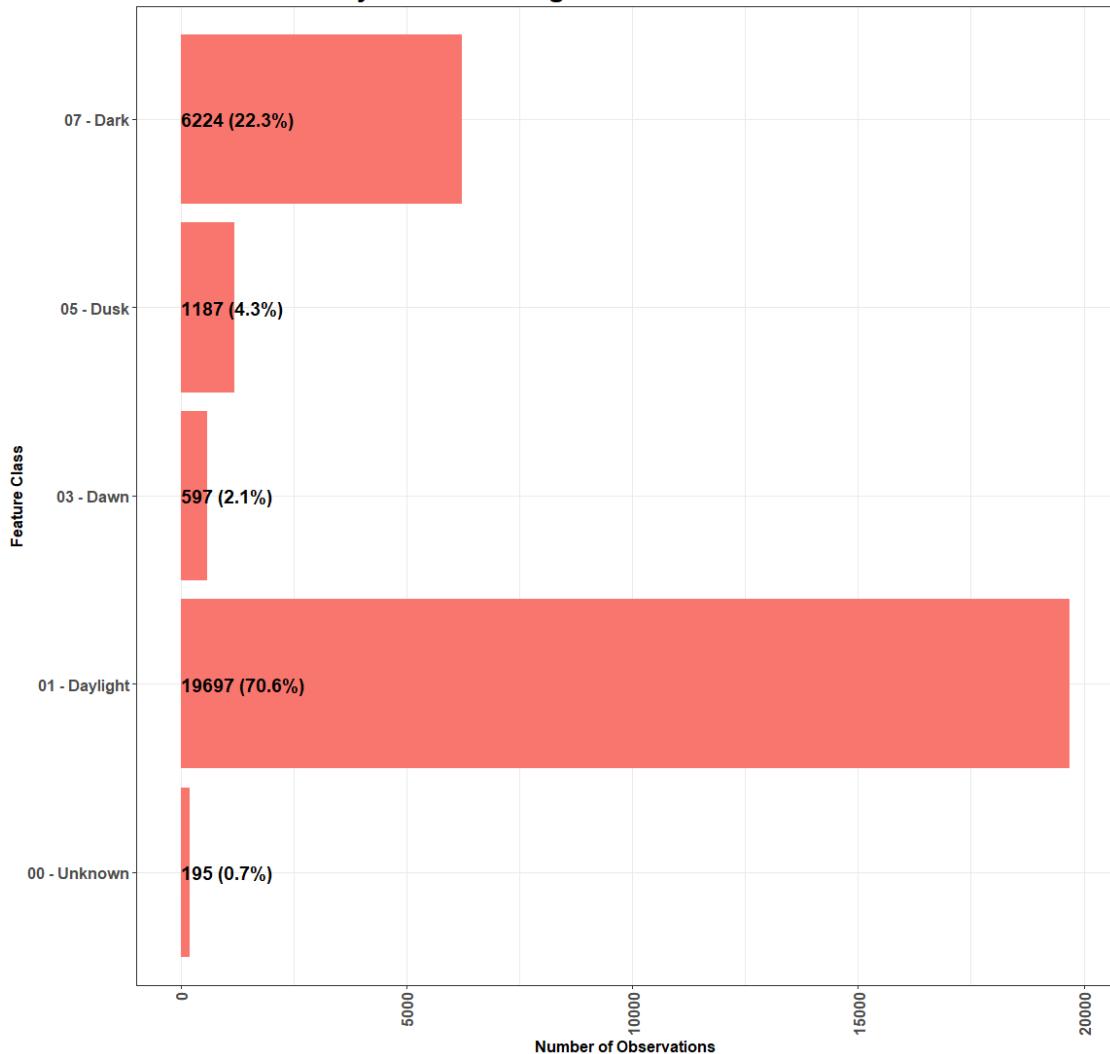
##  

## Feature Value Counter Percentage  

## -----
```

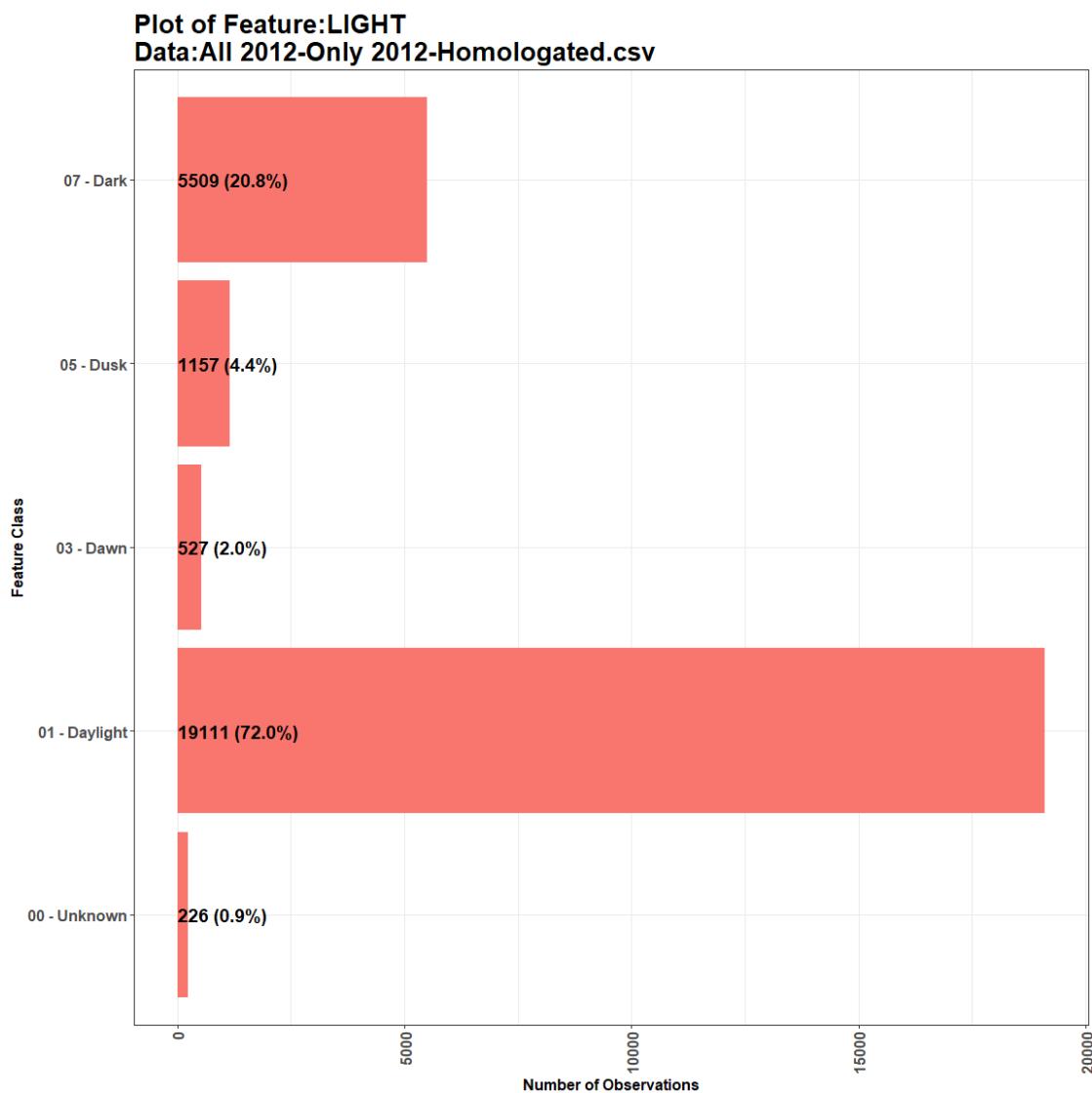
## 00 - Unknown	195	0.6989
## 01 - Daylight	19697	70.5986
## 03 - Dawn	597	2.1398
## 05 - Dusk	1187	4.2545
## 07 - Dark	6224	22.3082

**Plot of Feature:LIGHT
Data:All 2011-Only 2011-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:LIGHT
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

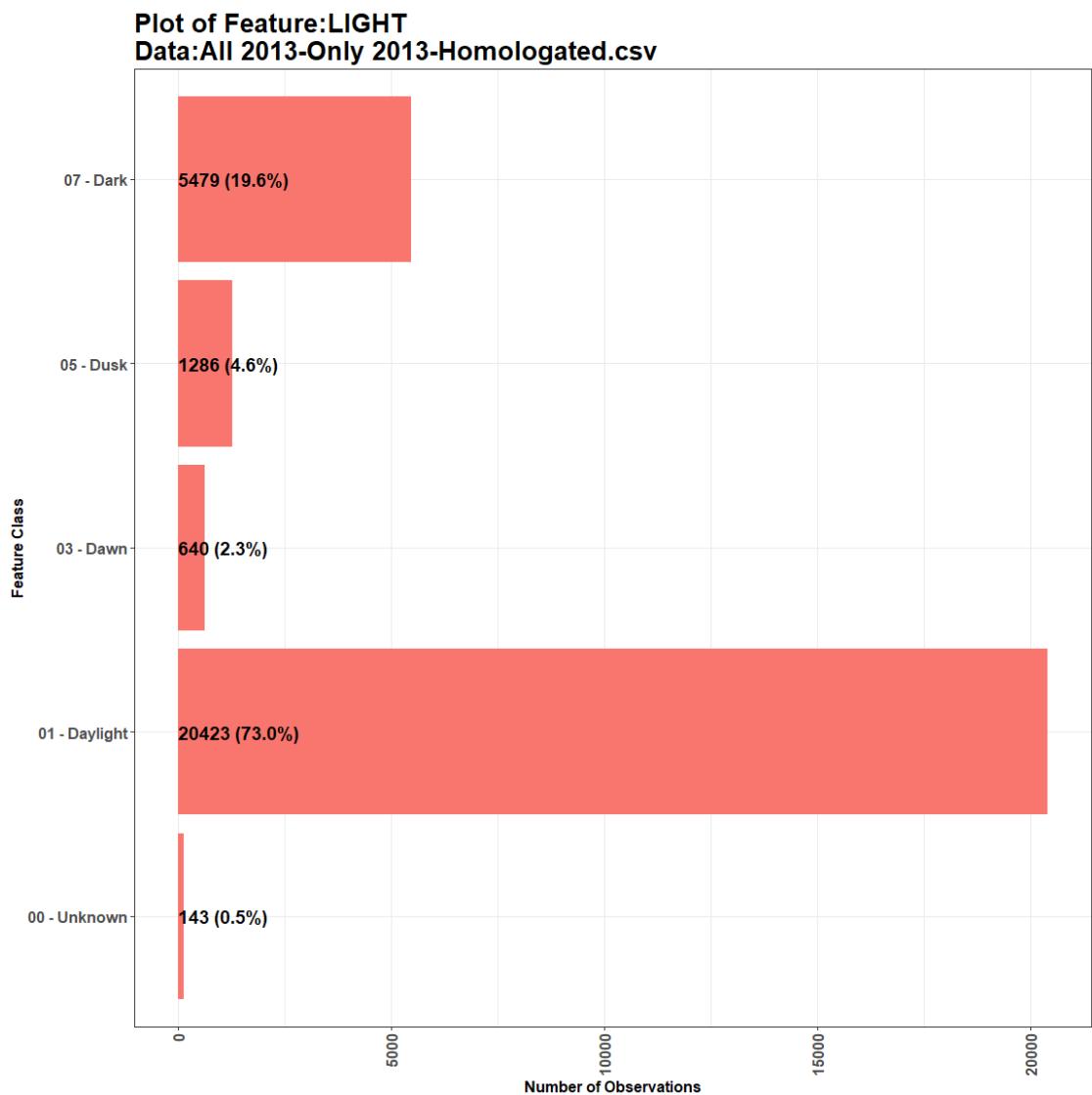
```
## Number of Features: 5
##
## TOP 100 FEATURES OF LIGHT
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 226 0.8519
## 01 - Daylight 19111 72.0354
## 03 - Dawn 527 1.9864
## 05 - Dusk 1157 4.3611
## 07 - Dark 5509 20.7652
```



```
##
## -----
## CHECKING FEATURE:LIGHT
```



```
## DATA:All 2013-Only 2013-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 5
## 
## TOP 100 FEATURES OF LIGHT
## 
## Feature Value      Counter      Percentage
## ----- -----
## 00 - Unknown        143       0.5112
## 01 - Daylight     20423      73.0149
## 03 - Dawn           640       2.2881
## 05 - Dusk           1286      4.5976
## 07 - Dark           5479      19.5881
```



```
##  

## -----  

## CHECKING FEATURE:LIGHT  

## DATA:All 2014-Only 2014-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF LIGHT  

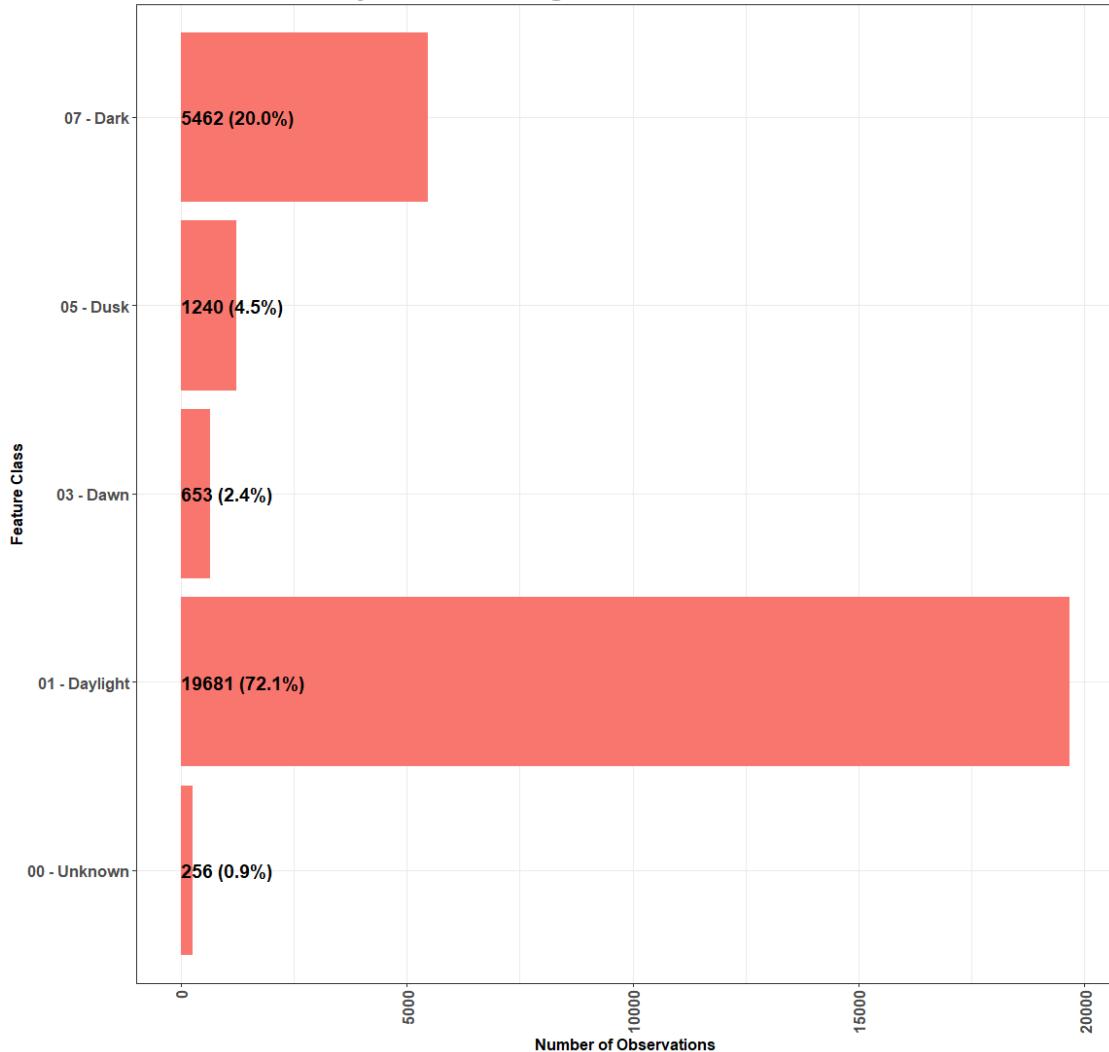
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	256	0.938
## 01 - Daylight	19681	72.113
## 03 - Dawn	653	2.393
## 05 - Dusk	1240	4.543
## 07 - Dark	5462	20.013

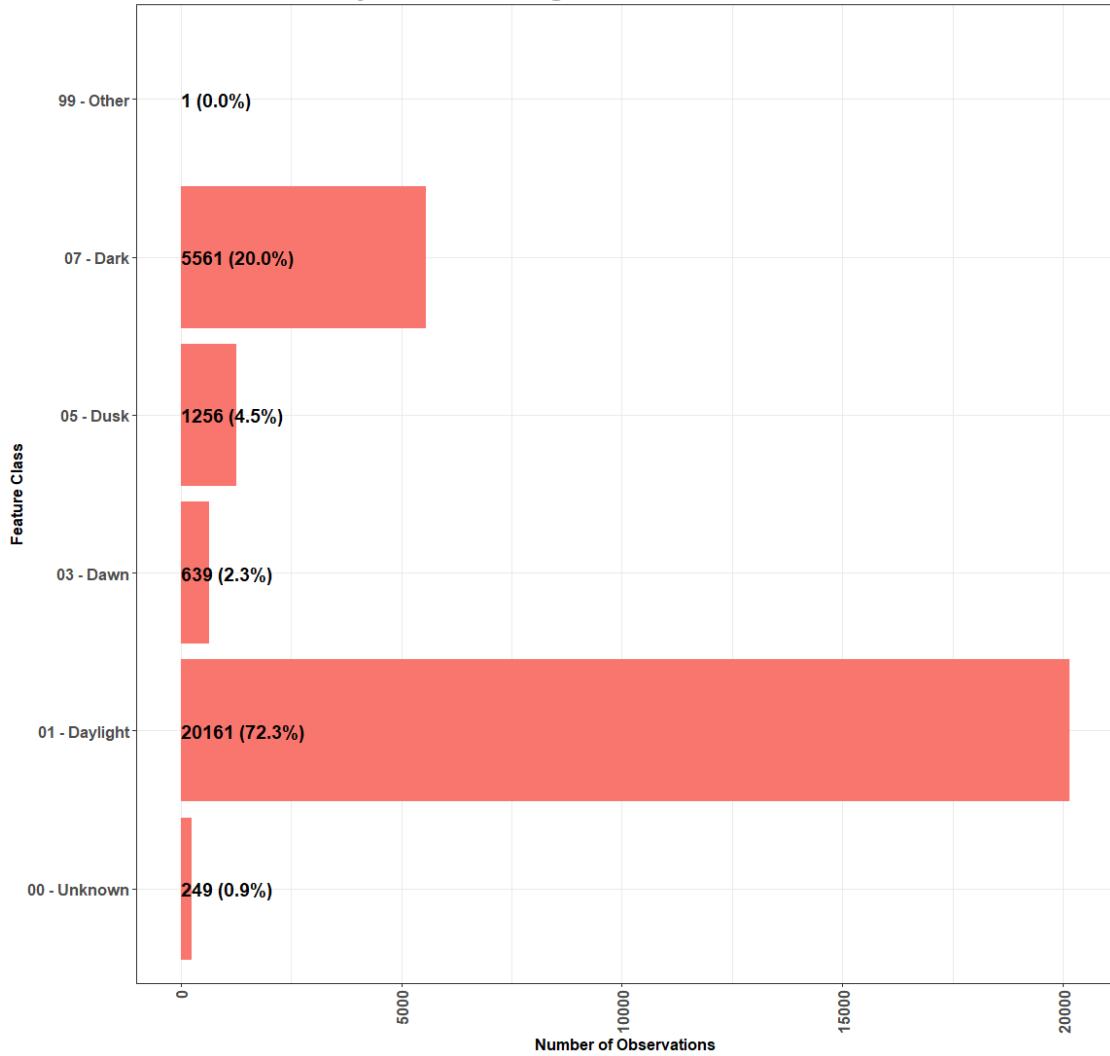
**Plot of Feature:LIGHT
Data:All 2014-Only 2014-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:LIGHT
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 6
##
## TOP 100 FEATURES OF LIGHT
##
## Feature Value Counter Percentage
## ----- -----
## 00 - Unknown      249     0.8935
## 01 - Daylight    20161    72.3472
## 03 - Dawn        639     2.2930
## 05 - Dusk         1256    4.5071
## 07 - Dark        5561    19.9555
## 99 - Other        1      0.0036
```

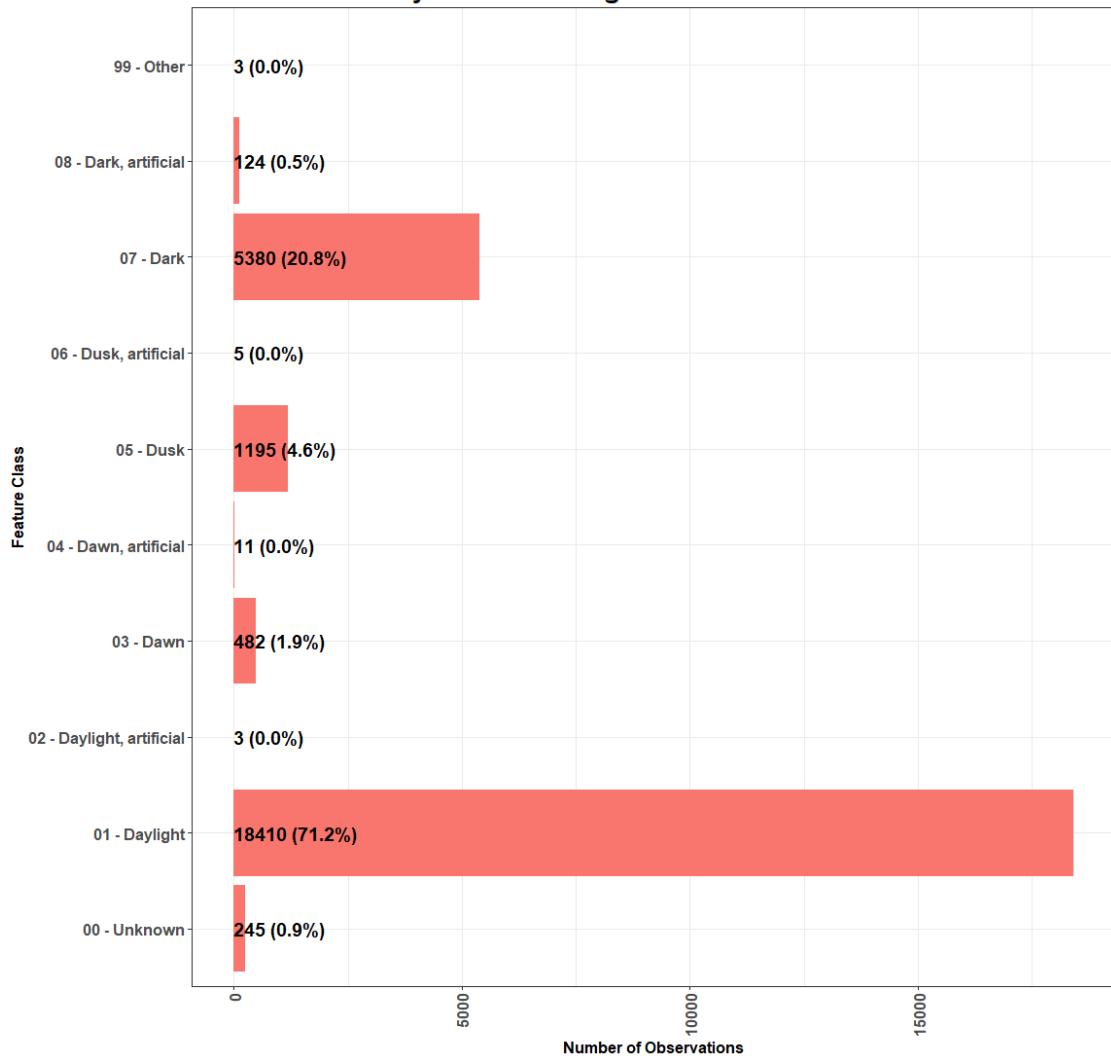
Plot of Feature:LIGHT
Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
```

```
## CHECKING FEATURE:LIGHT
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 10
##
## TOP 100 FEATURES OF LIGHT
##
## Feature Value          Counter   Percentage
## -----                  -----    -----
## 00 - Unknown           245      0.9475
## 01 - Daylight          18410     71.1965
## 02 - Daylight, artificial 3        0.0116
## 03 - Dawn               482      1.8640
## 04 - Dawn, artificial   11       0.0425
## 05 - Dusk               1195     4.6214
## 06 - Dusk, artificial   5        0.0193
## 07 - Dark               5380     20.8059
## 08 - Dark, artificial   124      0.4795
## 99 - Other              3        0.0116
```

Plot of Feature:LIGHT
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:LIGHT  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

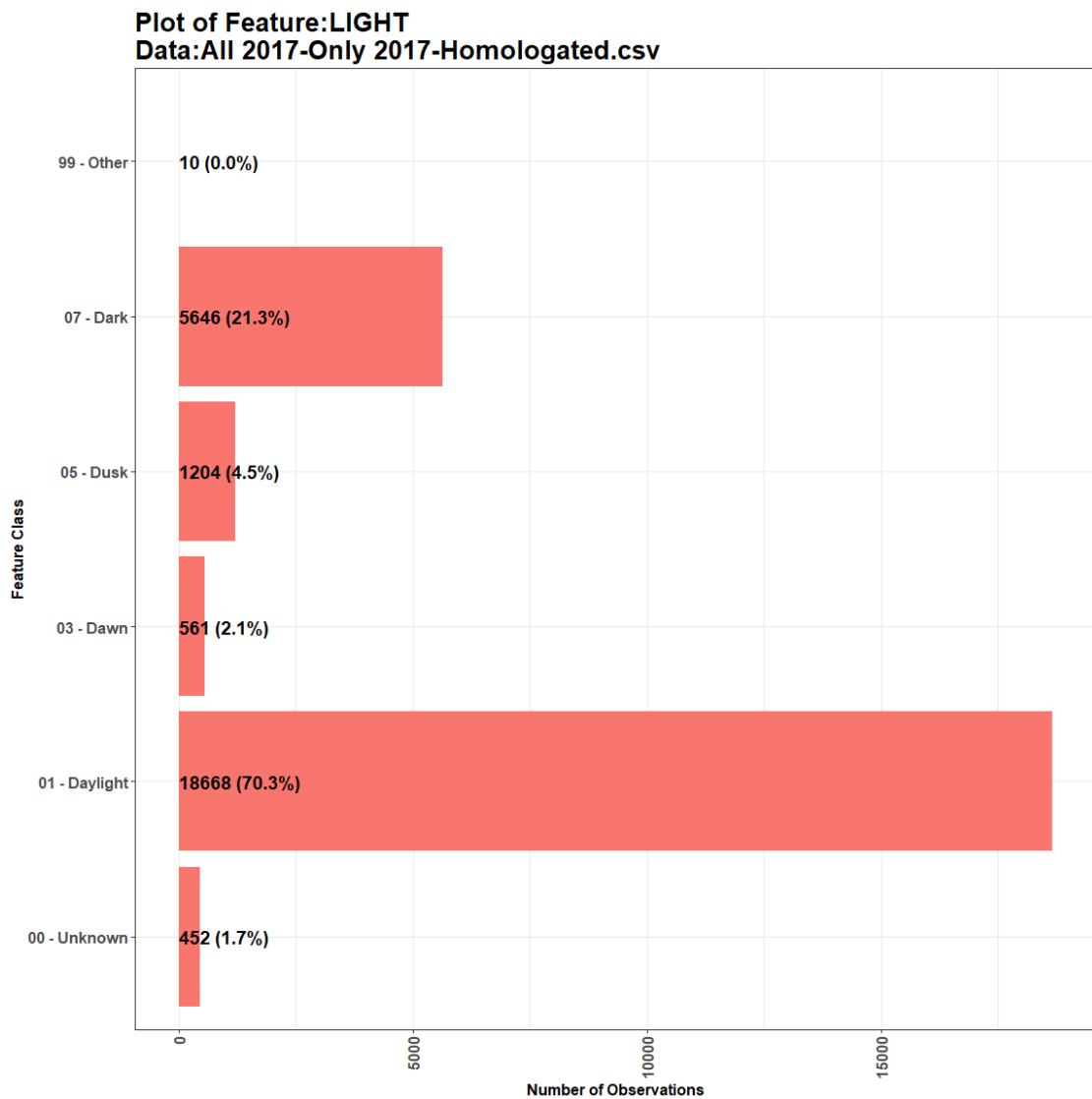
## TOP 100 FEATURES OF LIGHT  

##  

## Feature Value    Counter    Percentage  

## -----
```

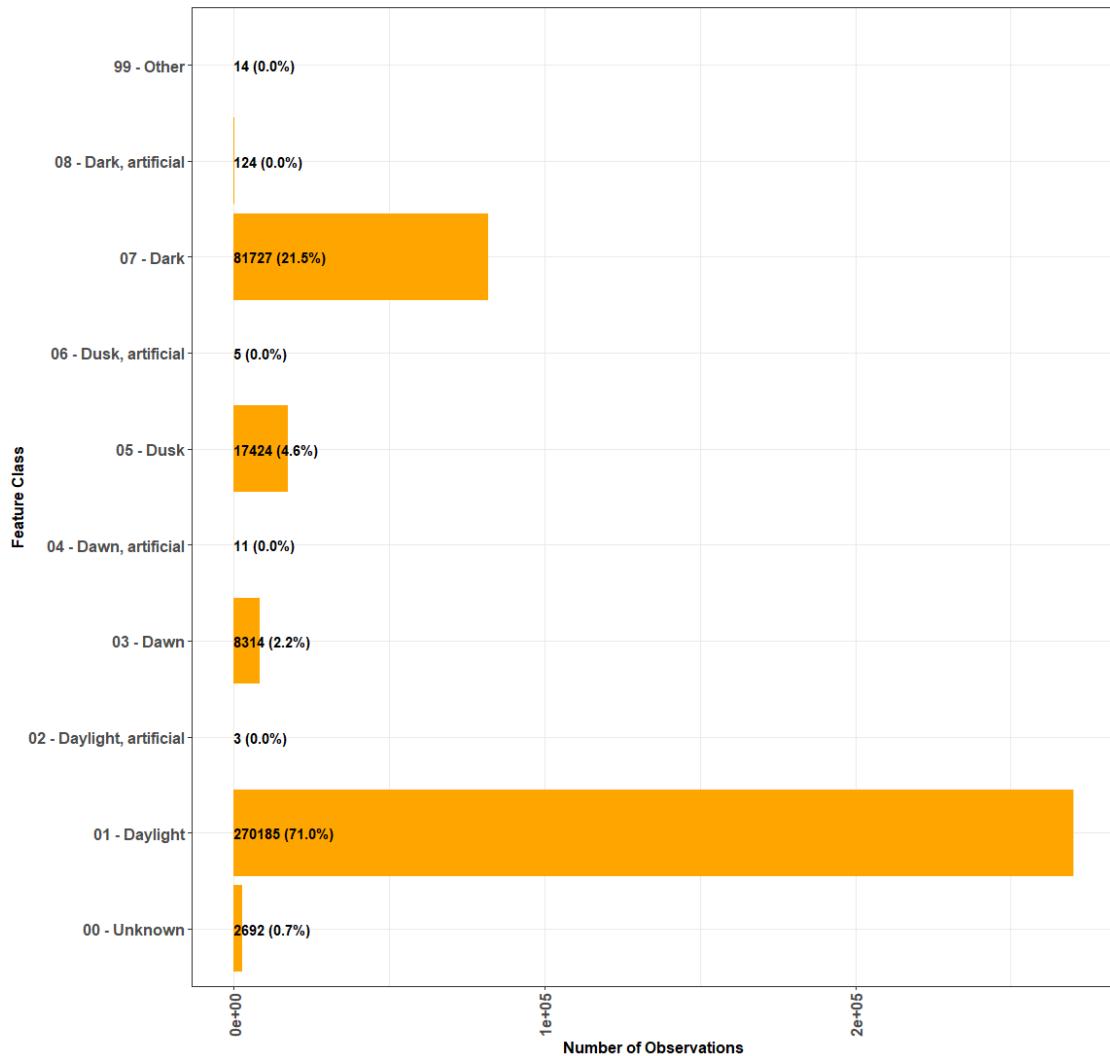
## 00 - Unknown	452	1.7030
## 01 - Daylight	18668	70.3365
## 03 - Dawn	561	2.1137
## 05 - Dusk	1204	4.5364
## 07 - Dark	5646	21.2727
## 99 - Other	10	0.0377



```
##
## =====
## FINAL INFO CHECKING FEATURE:LIGHT
## ALL DATA...
## =====
## Number of Blank Values:0
##
```

```
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 10
```

Plot of Feature:LIGHT All Data



```
## [1] "TOP 100 FEATURES COUNTERS OF:LIGHT"
```

Feature Value	Counter	Percentage
00 - Unknown	2692	0.7075
01 - Daylight	270185	71.0081
02 - Daylight, artificial	3	0.0008
03 - Dawn	8314	2.1850
04 - Dawn, artificial	11	0.0029
05 - Dusk	17424	4.5792
06 - Dusk, artificial	5	0.0013
07 - Dark	81727	21.4789
08 - Dark, artificial	124	0.0326

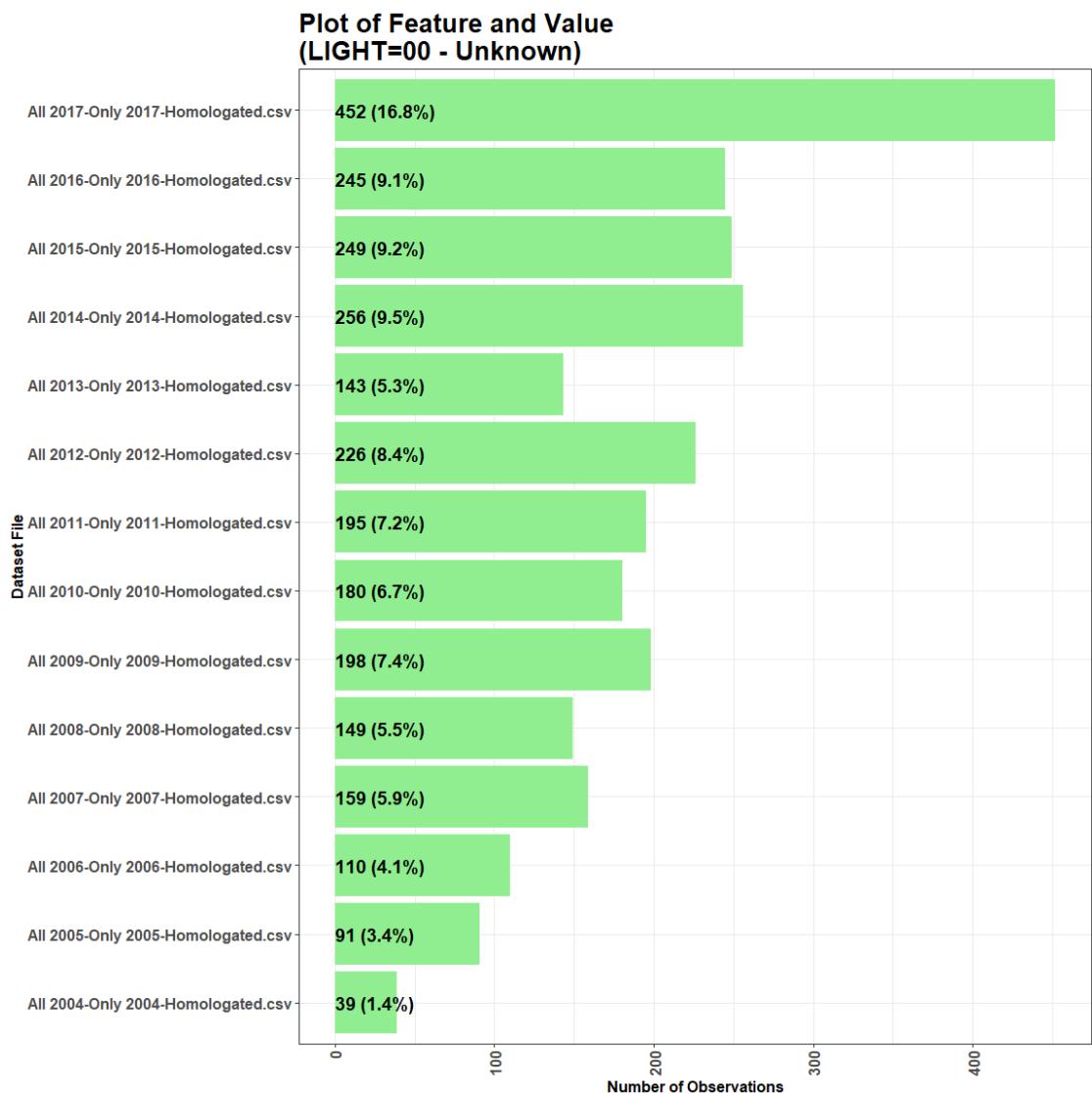
99 - Other 14 0.0037

9.1 LIGHT = “00 - Unknown”

```

## =====
## CHECKING FEATURE AND VALUE (LIGHT=00 - Unknown)
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                                     39          91
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                                     110         159
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                                     149         198
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                                     180         195
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                                     226         143
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                                     256         249
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                                     245         452

```

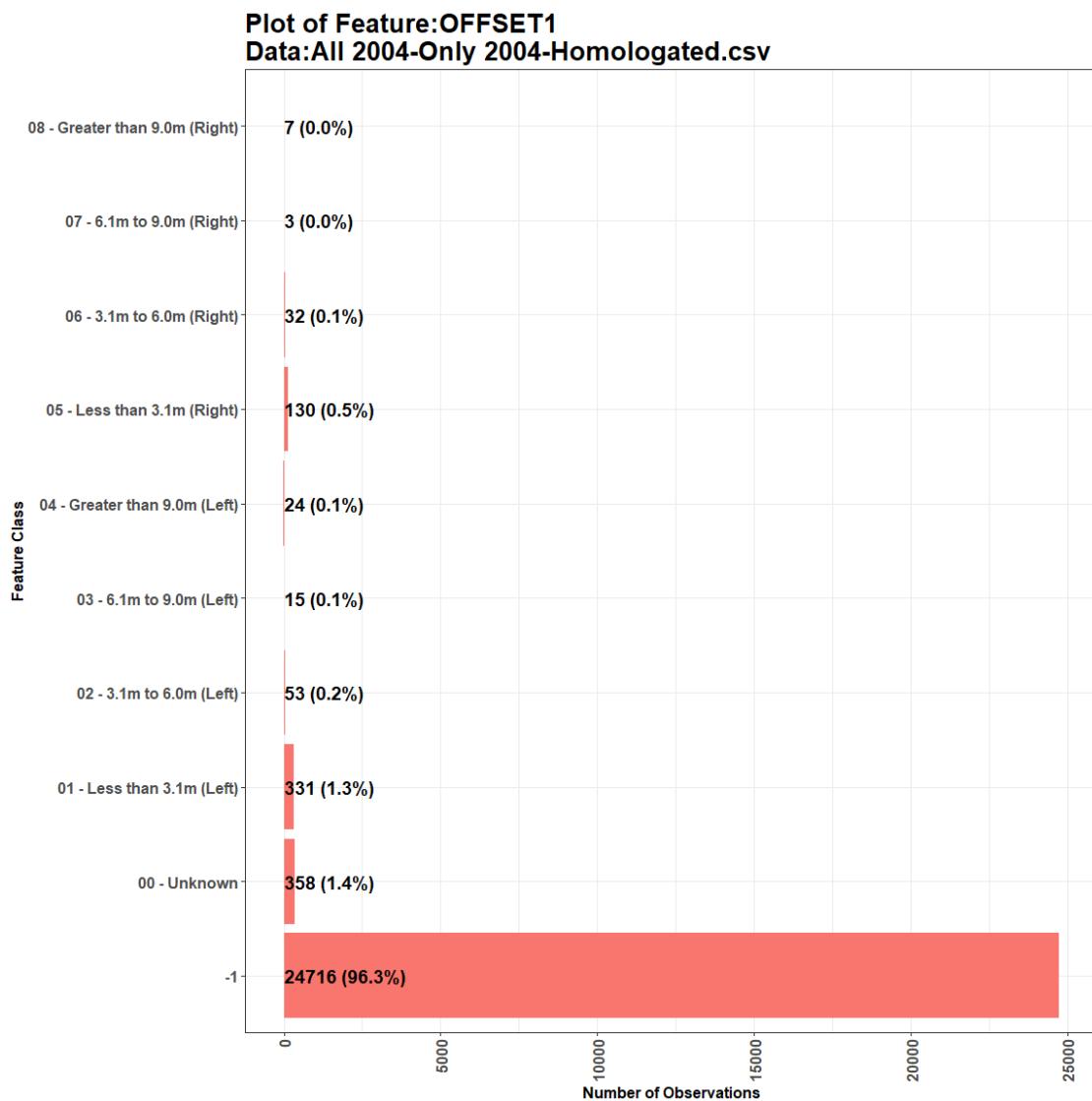


DATASET FILE	COUNTER OF (LIGHT=00 - Unknown)	Percentage
All 2004-Only 2004-Homologated.csv	39	1.449
All 2005-Only 2005-Homologated.csv	91	3.380
All 2006-Only 2006-Homologated.csv	110	4.086
All 2007-Only 2007-Homologated.csv	159	5.906
All 2008-Only 2008-Homologated.csv	149	5.535
All 2009-Only 2009-Homologated.csv	198	7.355
All 2010-Only 2010-Homologated.csv	180	6.686
All 2011-Only 2011-Homologated.csv	195	7.244
All 2012-Only 2012-Homologated.csv	226	8.395
All 2013-Only 2013-Homologated.csv	143	5.312

All 2014-Only 2014-Homologated.csv	256	9.510
All 2015-Only 2015-Homologated.csv	249	9.250
All 2016-Only 2016-Homologated.csv	245	9.101
All 2017-Only 2017-Homologated.csv	452	16.791

10. Offset1 (OFFSET1)

```
##  
## -----  
## CHECKING FEATURE:OFFSET1  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET1  
##  
## Feature Value Counter Percentage  
## -----  
## -1 24716 96.2874  
## 00 - Unknown 358 1.3947  
## 01 - Less than 3.1m (Left) 331 1.2895  
## 02 - 3.1m to 6.0m (Left) 53 0.2065  
## 03 - 6.1m to 9.0m (Left) 15 0.0584  
## 04 - Greater than 9.0m (Left) 24 0.0935  
## 05 - Less than 3.1m (Right) 130 0.5064  
## 06 - 3.1m to 6.0m (Right) 32 0.1247  
## 07 - 6.1m to 9.0m (Right) 3 0.0117  
## 08 - Greater than 9.0m (Right) 7 0.0273
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET1  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET1  

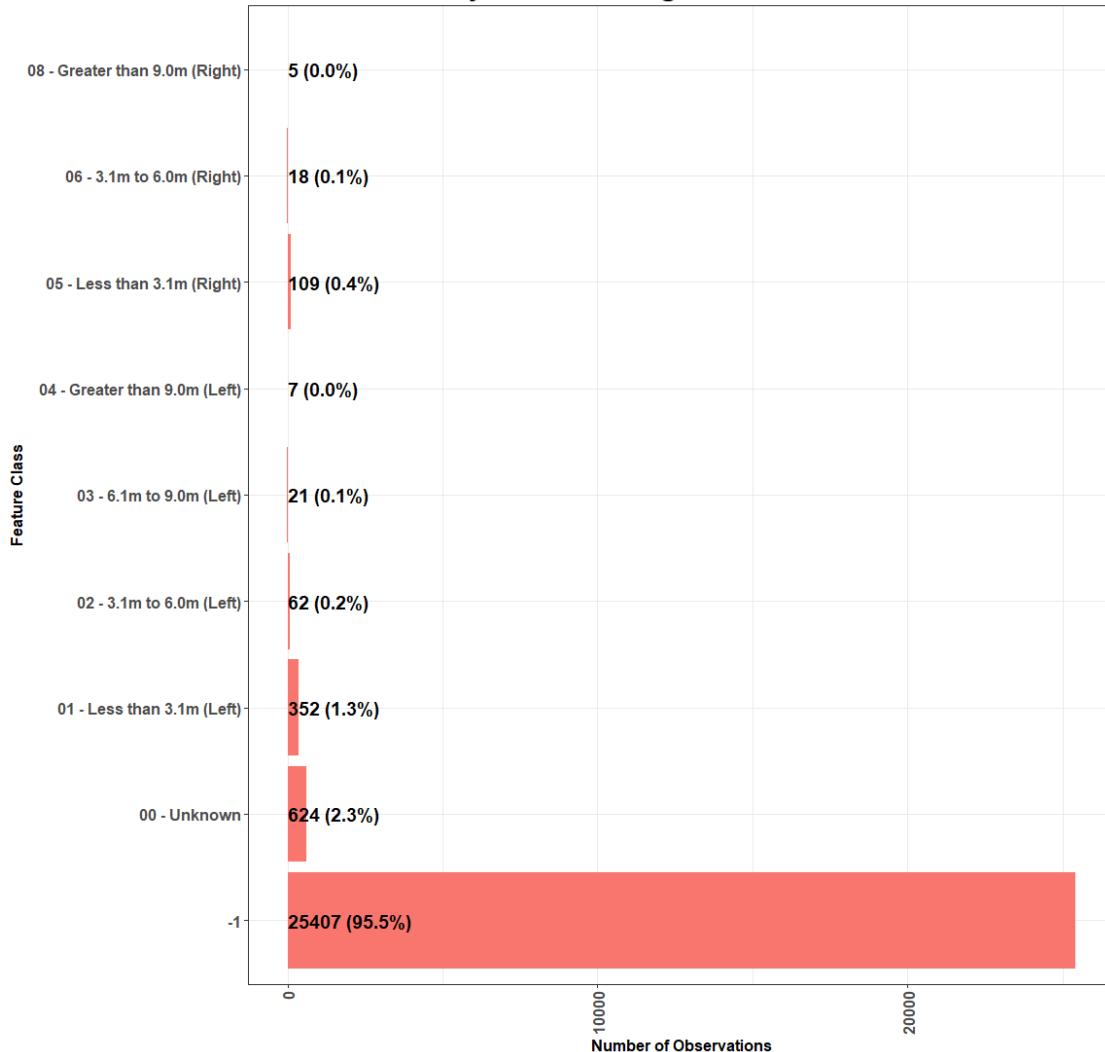
##  

## Feature Value Counter Percentage  

## -----
```

## -1	25407	95.4971
## 00 - Unknown	624	2.3454
## 01 - Less than 3.1m (Left)	352	1.3231
## 02 - 3.1m to 6.0m (Left)	62	0.2330
## 03 - 6.1m to 9.0m (Left)	21	0.0789
## 04 - Greater than 9.0m (Left)	7	0.0263
## 05 - Less than 3.1m (Right)	109	0.4097
## 06 - 3.1m to 6.0m (Right)	18	0.0677
## 08 - Greater than 9.0m (Right)	5	0.0188

**Plot of Feature:OFFSET1
Data:All 2005-Only 2005-Homologated.csv**

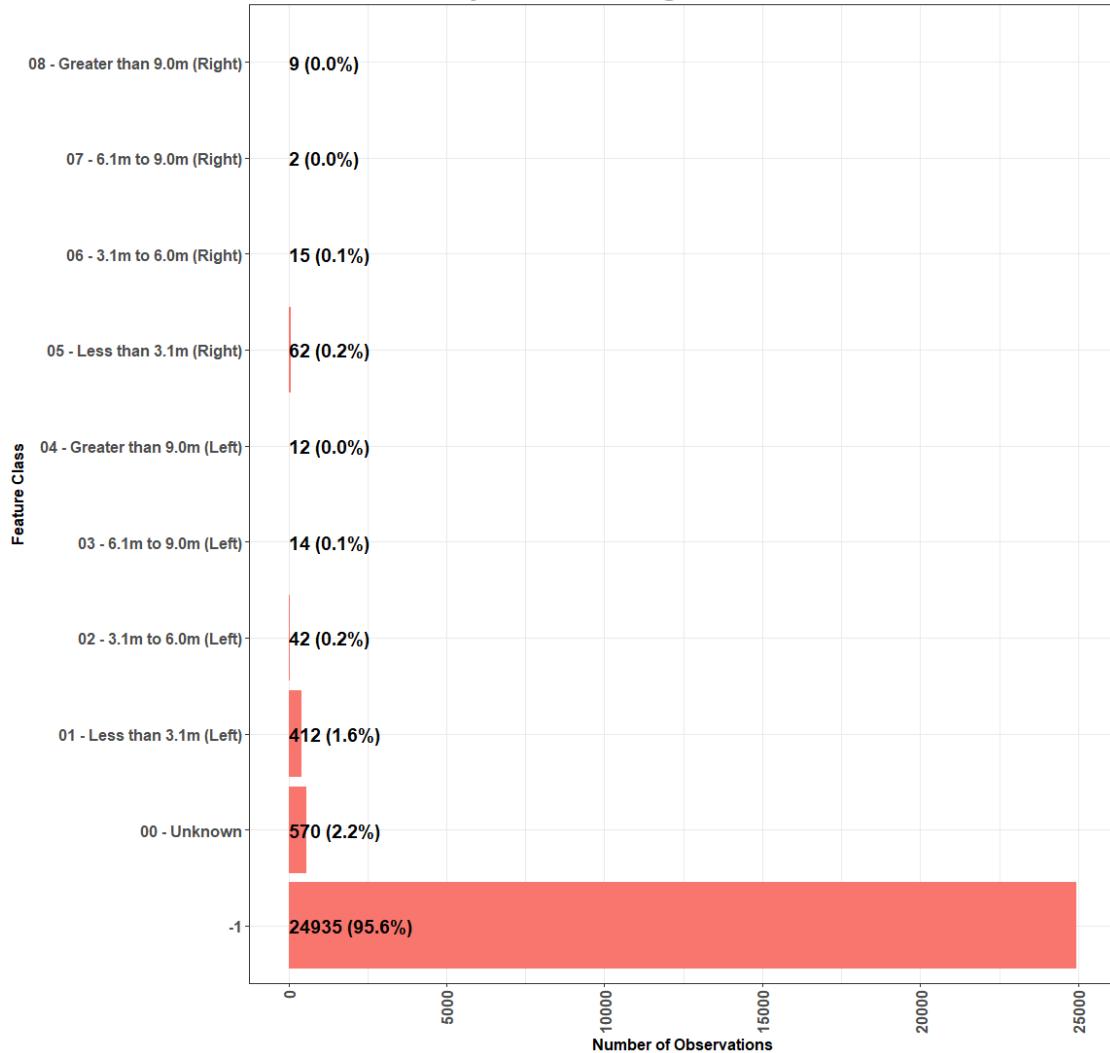


```
##  
## -----  
## CHECKING FEATURE:OFFSET1  
## DATA:All 2006-Only 2006-Homologated.csv...  
##
```



```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 10
##
## TOP 100 FEATURES OF OFFSET1
##
## Feature Value          Counter    Percentage
## -----                  -----
## -1                      24935     95.6353
## 00 - Unknown            570       2.1862
## 01 - Less than 3.1m (Left) 412       1.5802
## 02 - 3.1m to 6.0m (Left) 42        0.1611
## 03 - 6.1m to 9.0m (Left) 14        0.0537
## 04 - Greater than 9.0m (Left) 12        0.0460
## 05 - Less than 3.1m (Right) 62        0.2378
## 06 - 3.1m to 6.0m (Right) 15        0.0575
## 07 - 6.1m to 9.0m (Right) 2         0.0077
## 08 - Greater than 9.0m (Right) 9         0.0345
```

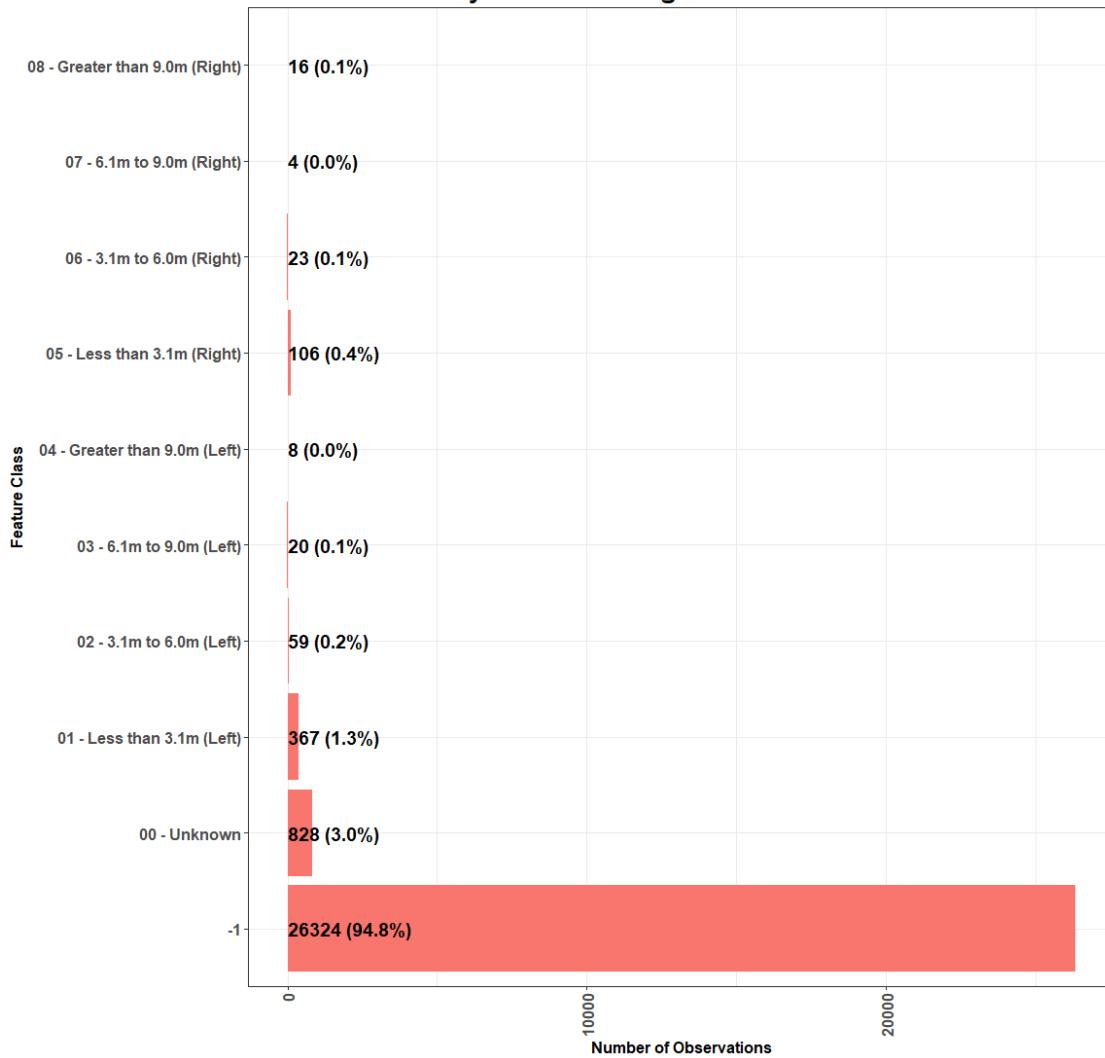
**Plot of Feature:OFFSET1
Data:All 2006-Only 2006-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:OFFSET1  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET1  
##  
## Feature Value Counter Percentage  
## -----
```

## -1	26324	94.8442
## 00 - Unknown	828	2.9832
## 01 - Less than 3.1m (Left)	367	1.3223
## 02 - 3.1m to 6.0m (Left)	59	0.2126
## 03 - 6.1m to 9.0m (Left)	20	0.0721
## 04 - Greater than 9.0m (Left)	8	0.0288
## 05 - Less than 3.1m (Right)	106	0.3819
## 06 - 3.1m to 6.0m (Right)	23	0.0829
## 07 - 6.1m to 9.0m (Right)	4	0.0144
## 08 - Greater than 9.0m (Right)	16	0.0576

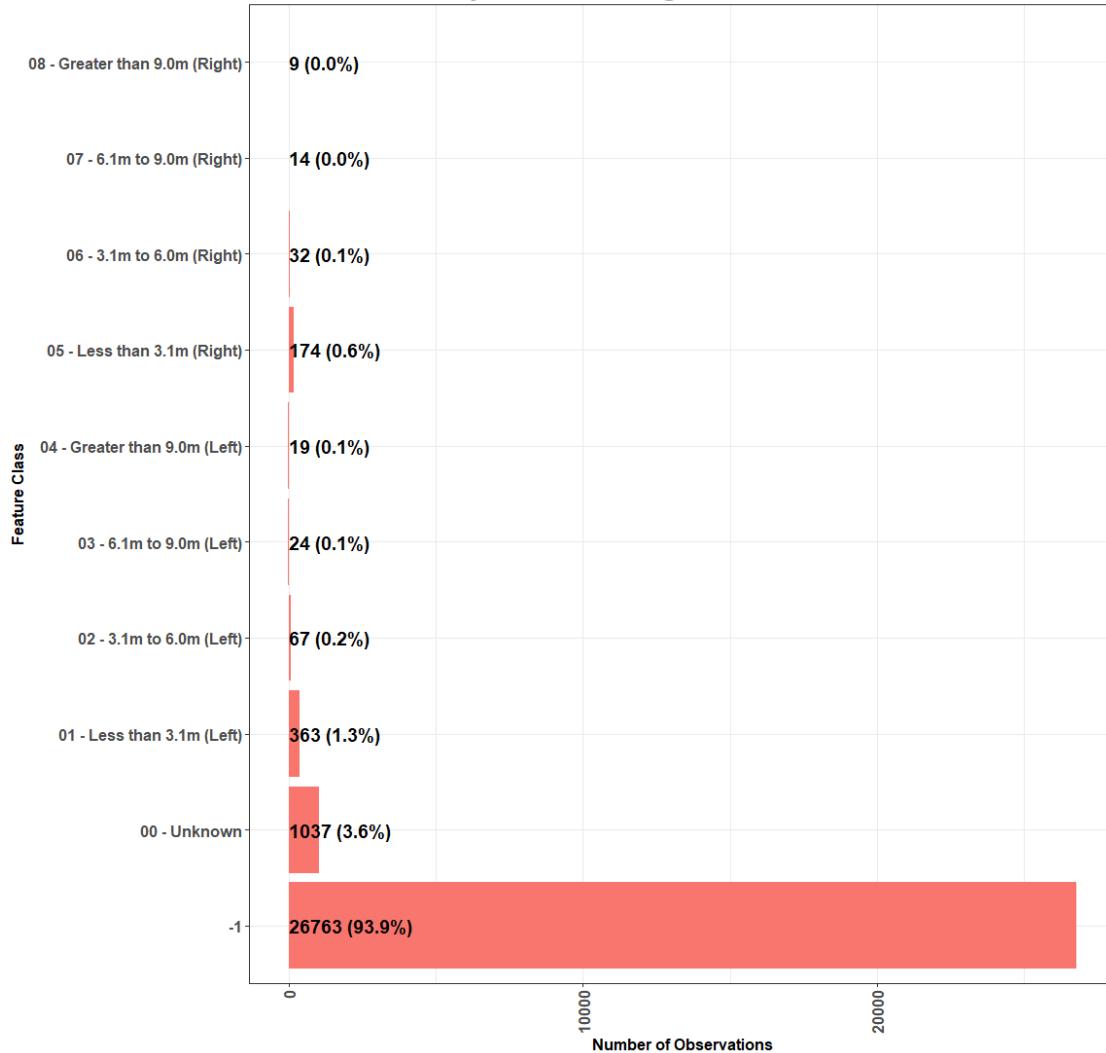
**Plot of Feature:OFFSET1
Data:All 2007-Only 2007-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET1
## DATA:All 2008-Only 2008-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET1  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26763 93.8987  
## 00 - Unknown 1037 3.6383  
## 01 - Less than 3.1m (Left) 363 1.2736  
## 02 - 3.1m to 6.0m (Left) 67 0.2351  
## 03 - 6.1m to 9.0m (Left) 24 0.0842  
## 04 - Greater than 9.0m (Left) 19 0.0667  
## 05 - Less than 3.1m (Right) 174 0.6105  
## 06 - 3.1m to 6.0m (Right) 32 0.1123  
## 07 - 6.1m to 9.0m (Right) 14 0.0491  
## 08 - Greater than 9.0m (Right) 9 0.0316
```

Plot of Feature:OFFSET1
Data:All 2008-Only 2008-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:OFFSET1  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET1  

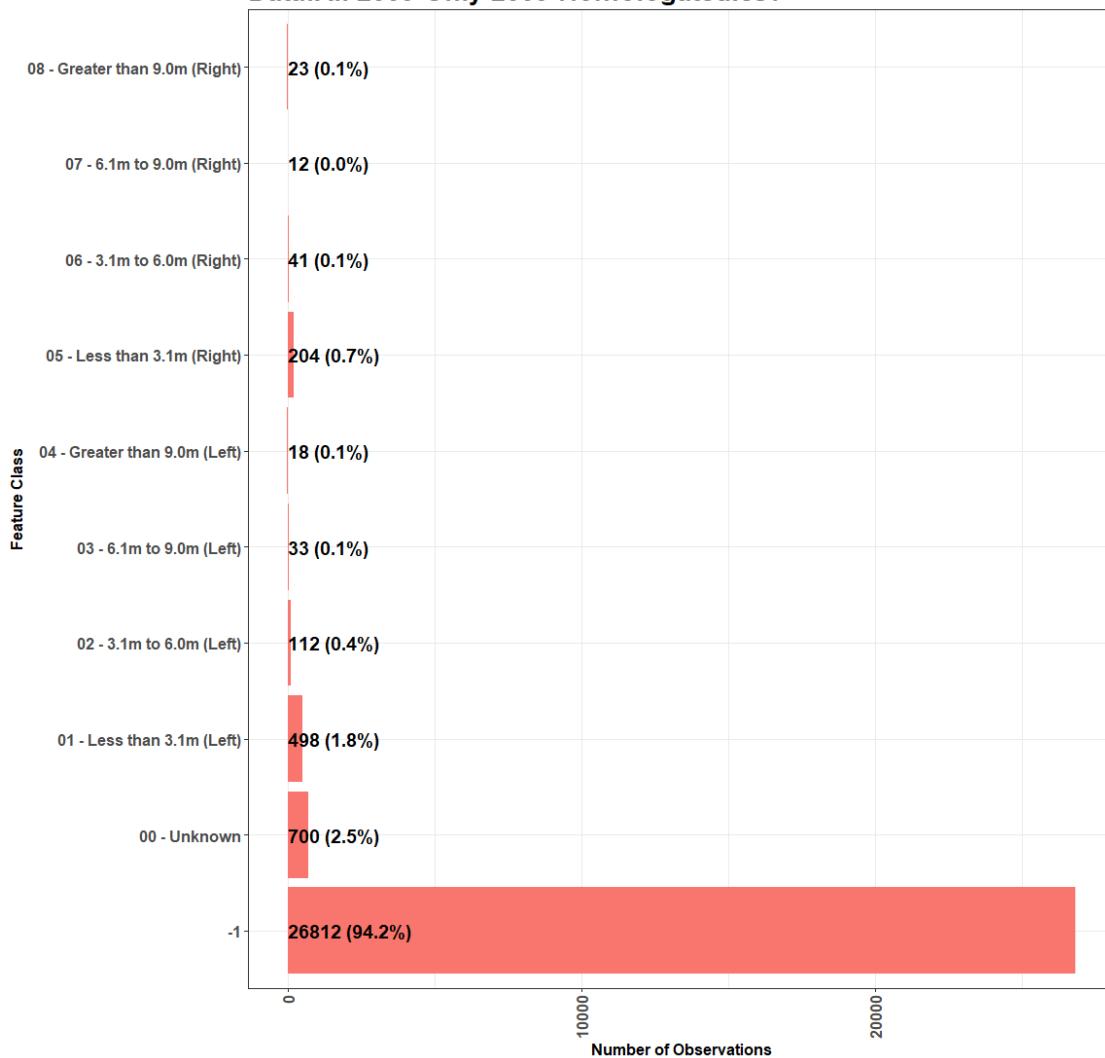
##  

## Feature Value Counter Percentage  

## -----
```

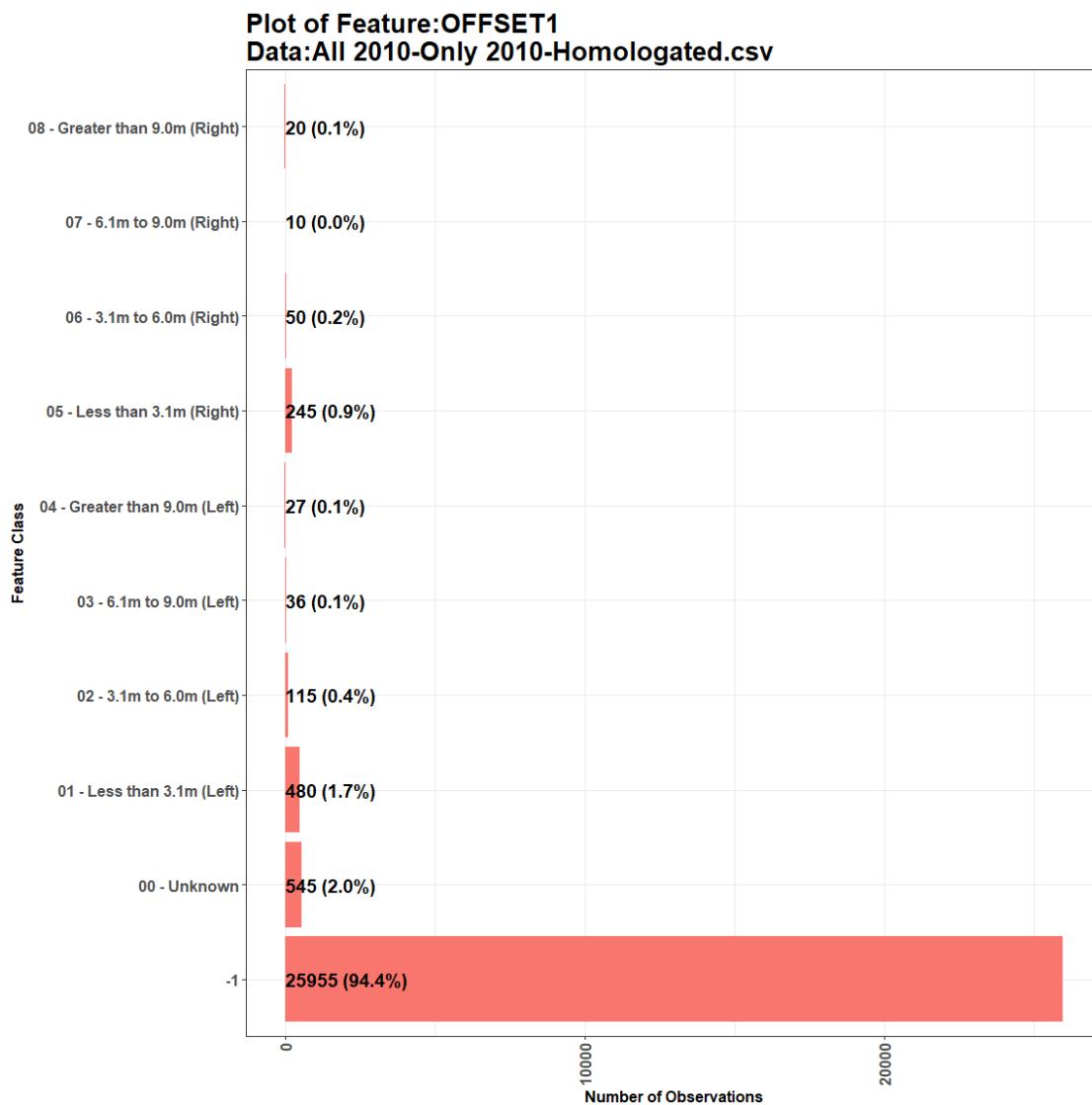
## -1	26812	94.2326
## 00 - Unknown	700	2.4602
## 01 - Less than 3.1m (Left)	498	1.7503
## 02 - 3.1m to 6.0m (Left)	112	0.3936
## 03 - 6.1m to 9.0m (Left)	33	0.1160
## 04 - Greater than 9.0m (Left)	18	0.0633
## 05 - Less than 3.1m (Right)	204	0.7170
## 06 - 3.1m to 6.0m (Right)	41	0.1441
## 07 - 6.1m to 9.0m (Right)	12	0.0422
## 08 - Greater than 9.0m (Right)	23	0.0808

**Plot of Feature:OFFSET1
Data:All 2009-Only 2009-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET1
## DATA:All 2010-Only 2010-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET1  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25955 94.4402  
## 00 - Unknown 545 1.9830  
## 01 - Less than 3.1m (Left) 480 1.7465  
## 02 - 3.1m to 6.0m (Left) 115 0.4184  
## 03 - 6.1m to 9.0m (Left) 36 0.1310  
## 04 - Greater than 9.0m (Left) 27 0.0982  
## 05 - Less than 3.1m (Right) 245 0.8915  
## 06 - 3.1m to 6.0m (Right) 50 0.1819  
## 07 - 6.1m to 9.0m (Right) 10 0.0364  
## 08 - Greater than 9.0m (Right) 20 0.0728
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET1  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET1  

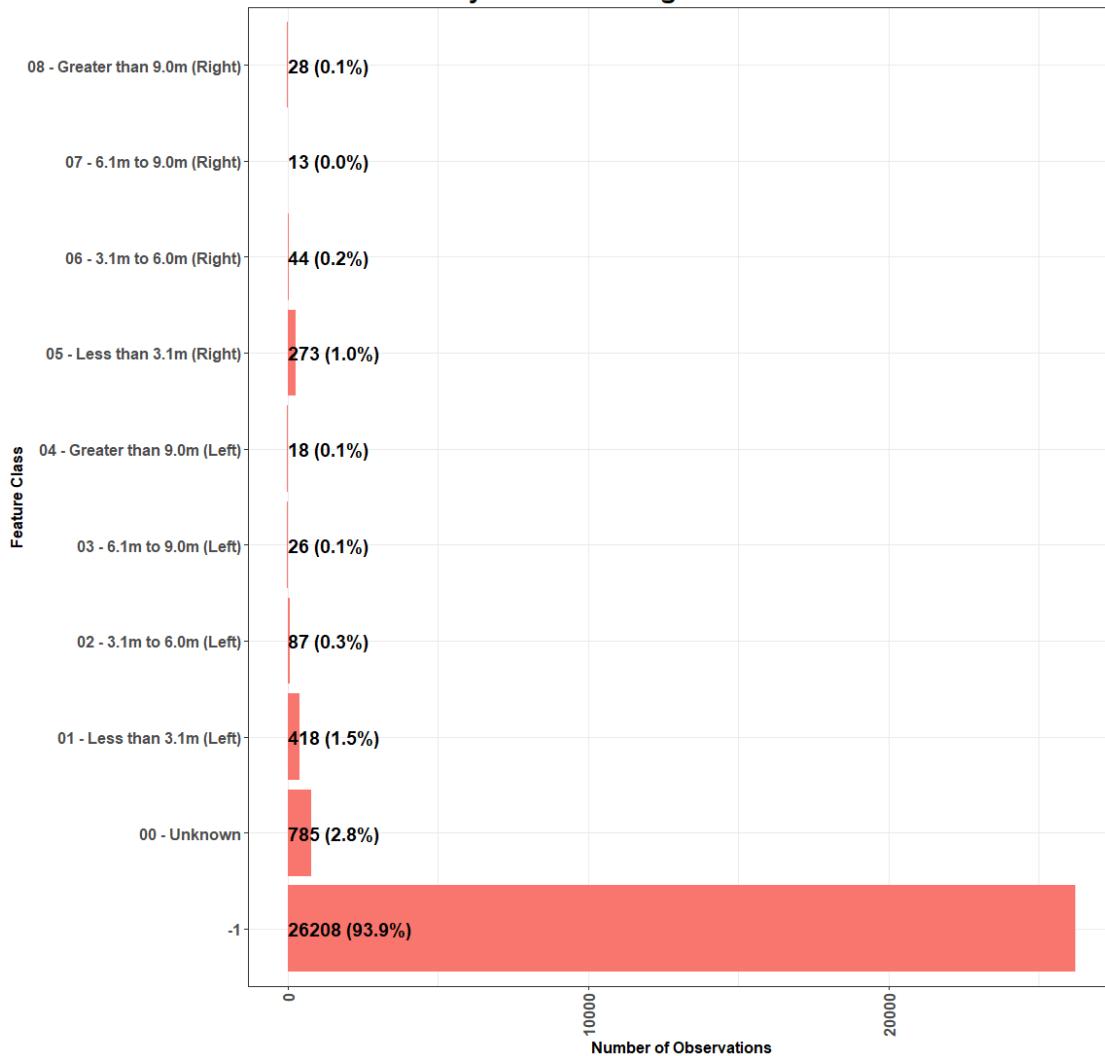
##  

## Feature Value Counter Percentage  

## -----
```

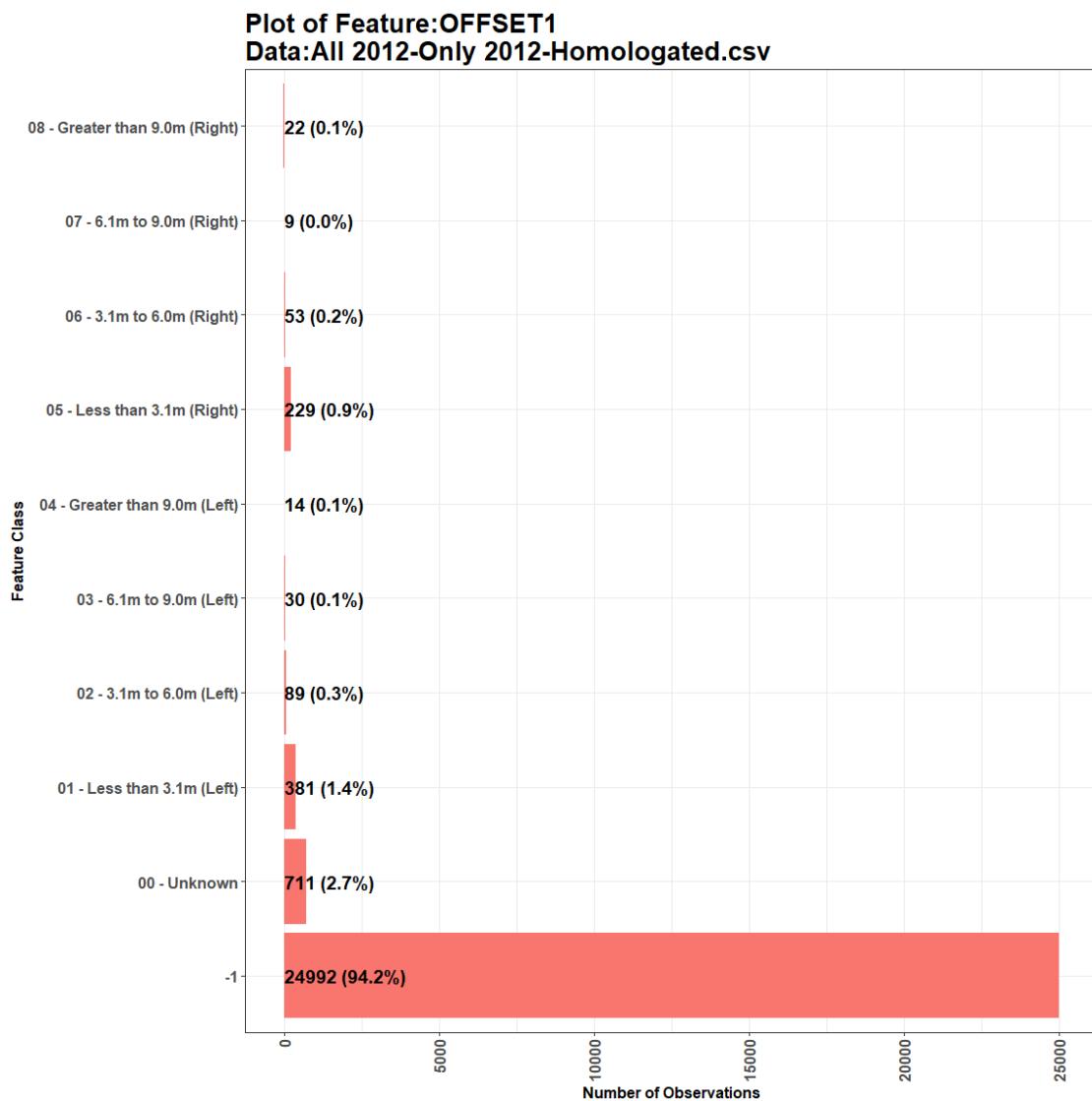
## -1	26208	93.9355
## 00 - Unknown	785	2.8136
## 01 - Less than 3.1m (Left)	418	1.4982
## 02 - 3.1m to 6.0m (Left)	87	0.3118
## 03 - 6.1m to 9.0m (Left)	26	0.0932
## 04 - Greater than 9.0m (Left)	18	0.0645
## 05 - Less than 3.1m (Right)	273	0.9785
## 06 - 3.1m to 6.0m (Right)	44	0.1577
## 07 - 6.1m to 9.0m (Right)	13	0.0466
## 08 - Greater than 9.0m (Right)	28	0.1004

**Plot of Feature:OFFSET1
Data:All 2011-Only 2011-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET1
## DATA:All 2012-Only 2012-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET1  
##  
## Feature Value Counter Percentage  
## -----  
## -1 24992 94.2028  
## 00 - Unknown 711 2.6800  
## 01 - Less than 3.1m (Left) 381 1.4361  
## 02 - 3.1m to 6.0m (Left) 89 0.3355  
## 03 - 6.1m to 9.0m (Left) 30 0.1131  
## 04 - Greater than 9.0m (Left) 14 0.0528  
## 05 - Less than 3.1m (Right) 229 0.8632  
## 06 - 3.1m to 6.0m (Right) 53 0.1998  
## 07 - 6.1m to 9.0m (Right) 9 0.0339  
## 08 - Greater than 9.0m (Right) 22 0.0829
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET1  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET1  

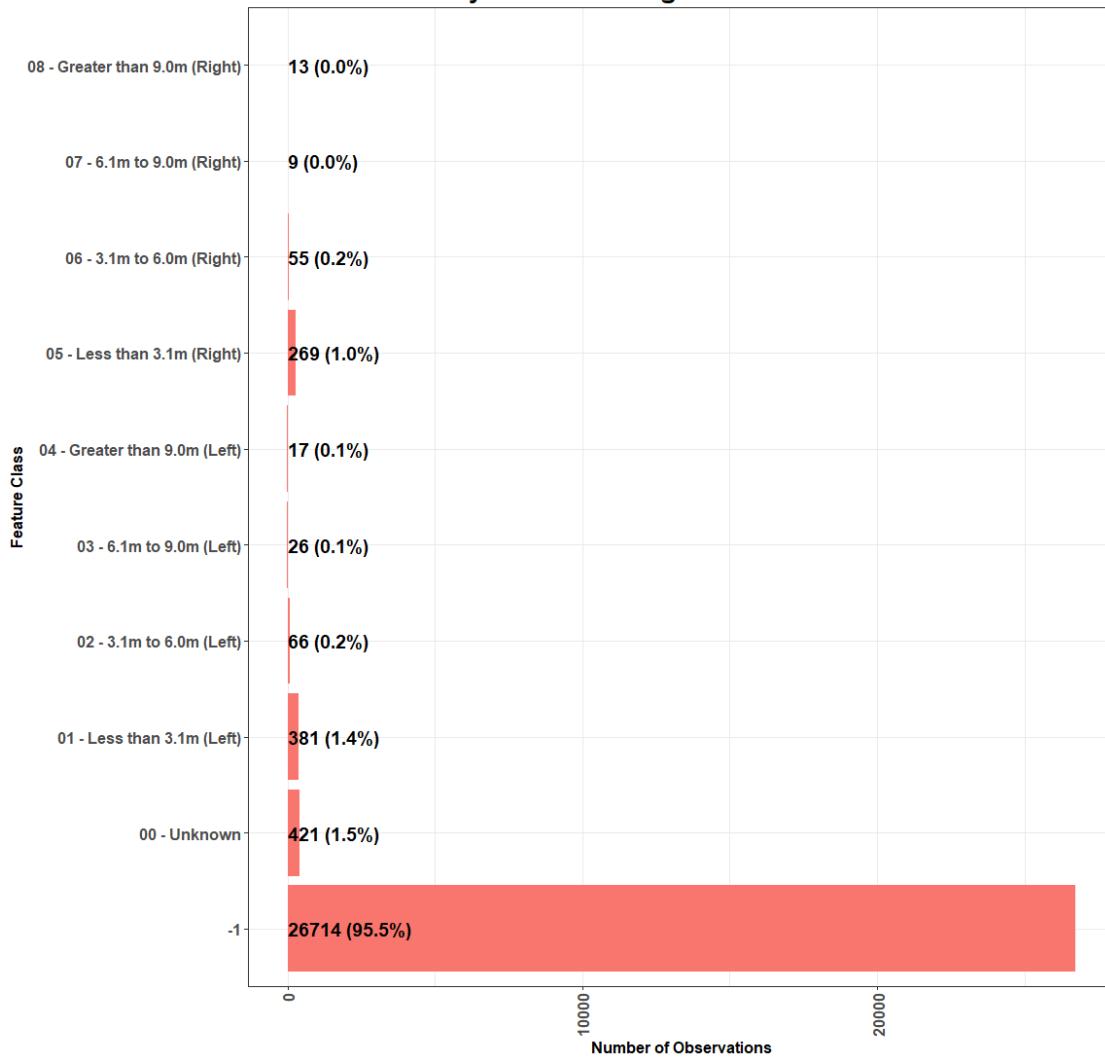
##  

## Feature Value Counter Percentage  

## -----
```

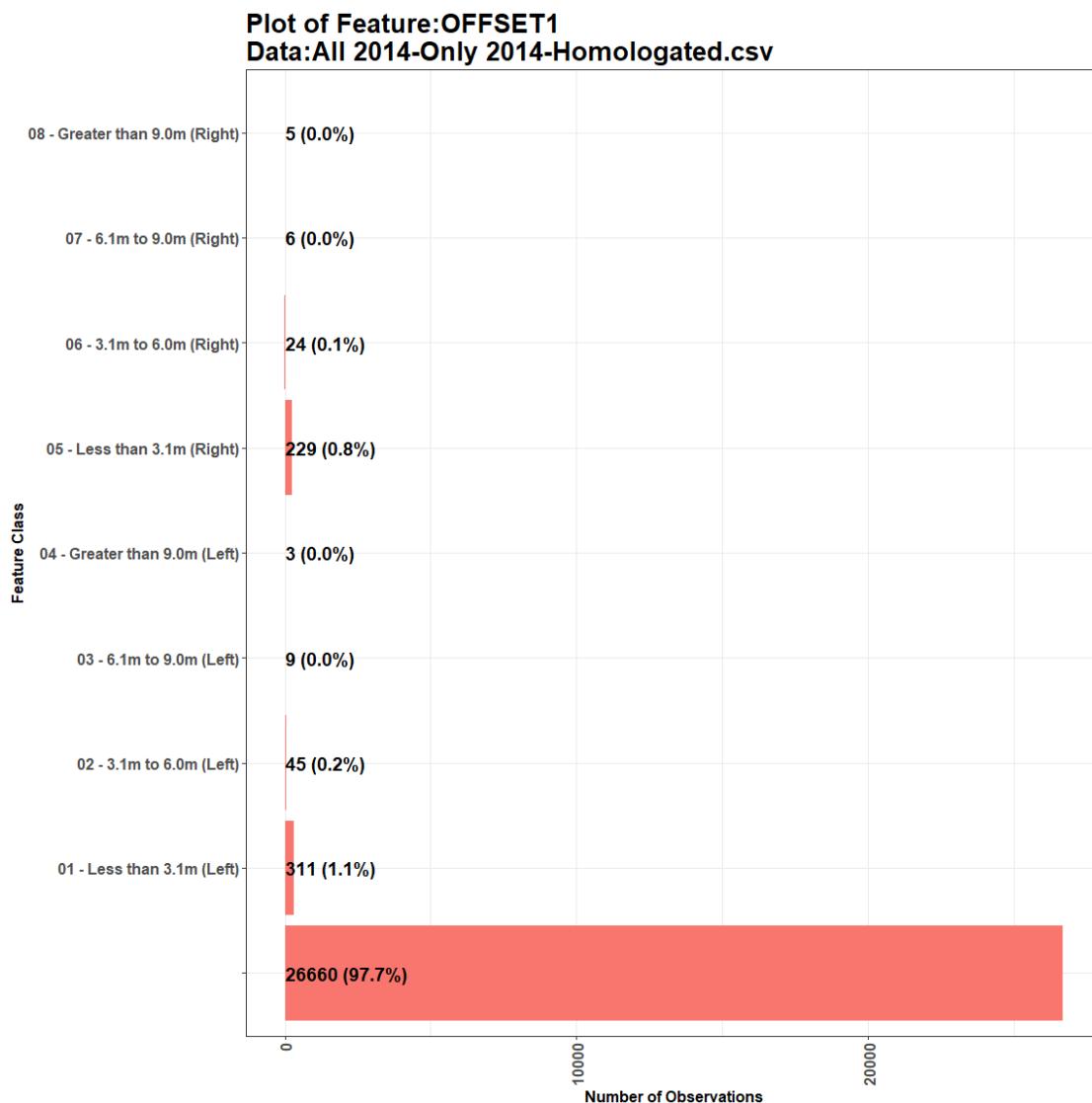
## -1	26714	95.5061
## 00 - Unknown	421	1.5051
## 01 - Less than 3.1m (Left)	381	1.3621
## 02 - 3.1m to 6.0m (Left)	66	0.2360
## 03 - 6.1m to 9.0m (Left)	26	0.0930
## 04 - Greater than 9.0m (Left)	17	0.0608
## 05 - Less than 3.1m (Right)	269	0.9617
## 06 - 3.1m to 6.0m (Right)	55	0.1966
## 07 - 6.1m to 9.0m (Right)	9	0.0322
## 08 - Greater than 9.0m (Right)	13	0.0465

**Plot of Feature:OFFSET1
Data:All 2013-Only 2013-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET1
## DATA:All 2014-Only 2014-Homologated.csv...
```

```
##  
## Number of Blank Values:26660  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 9  
##  
## TOP 100 FEATURES OF OFFSET1  
##  
## Feature Value Counter Percentage  
## -----  
## 26660 97.6843  
## 01 - Less than 3.1m (Left) 311 1.1395  
## 02 - 3.1m to 6.0m (Left) 45 0.1649  
## 03 - 6.1m to 9.0m (Left) 9 0.0330  
## 04 - Greater than 9.0m (Left) 3 0.0110  
## 05 - Less than 3.1m (Right) 229 0.8391  
## 06 - 3.1m to 6.0m (Right) 24 0.0879  
## 07 - 6.1m to 9.0m (Right) 6 0.0220  
## 08 - Greater than 9.0m (Right) 5 0.0183
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET1  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:27254  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET1  

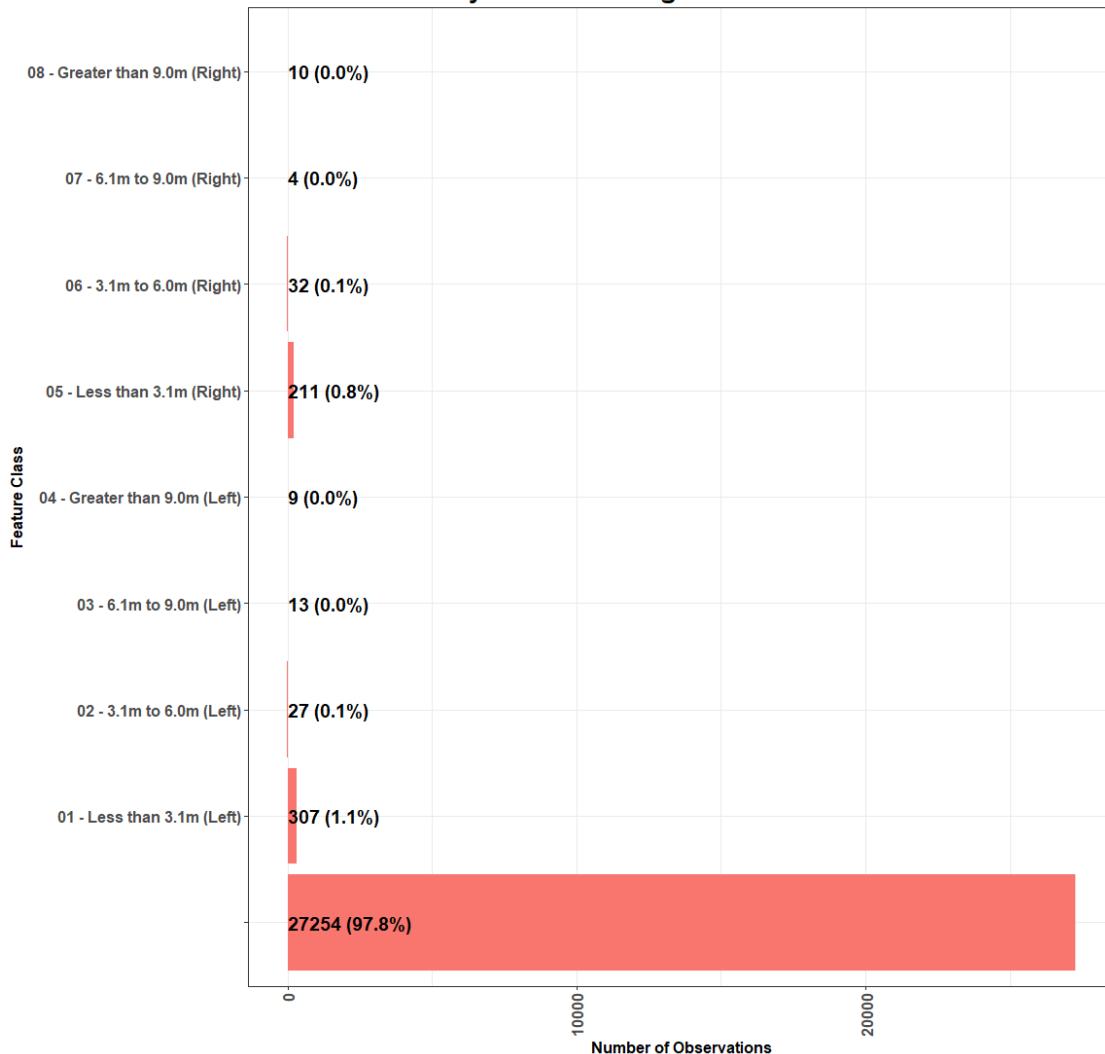
##  

## Feature Value Counter Percentage  

## -----
```

##	27254	97.8003
## 01 - Less than 3.1m (Left)	307	1.1017
## 02 - 3.1m to 6.0m (Left)	27	0.0969
## 03 - 6.1m to 9.0m (Left)	13	0.0467
## 04 - Greater than 9.0m (Left)	9	0.0323
## 05 - Less than 3.1m (Right)	211	0.7572
## 06 - 3.1m to 6.0m (Right)	32	0.1148
## 07 - 6.1m to 9.0m (Right)	4	0.0144
## 08 - Greater than 9.0m (Right)	10	0.0359

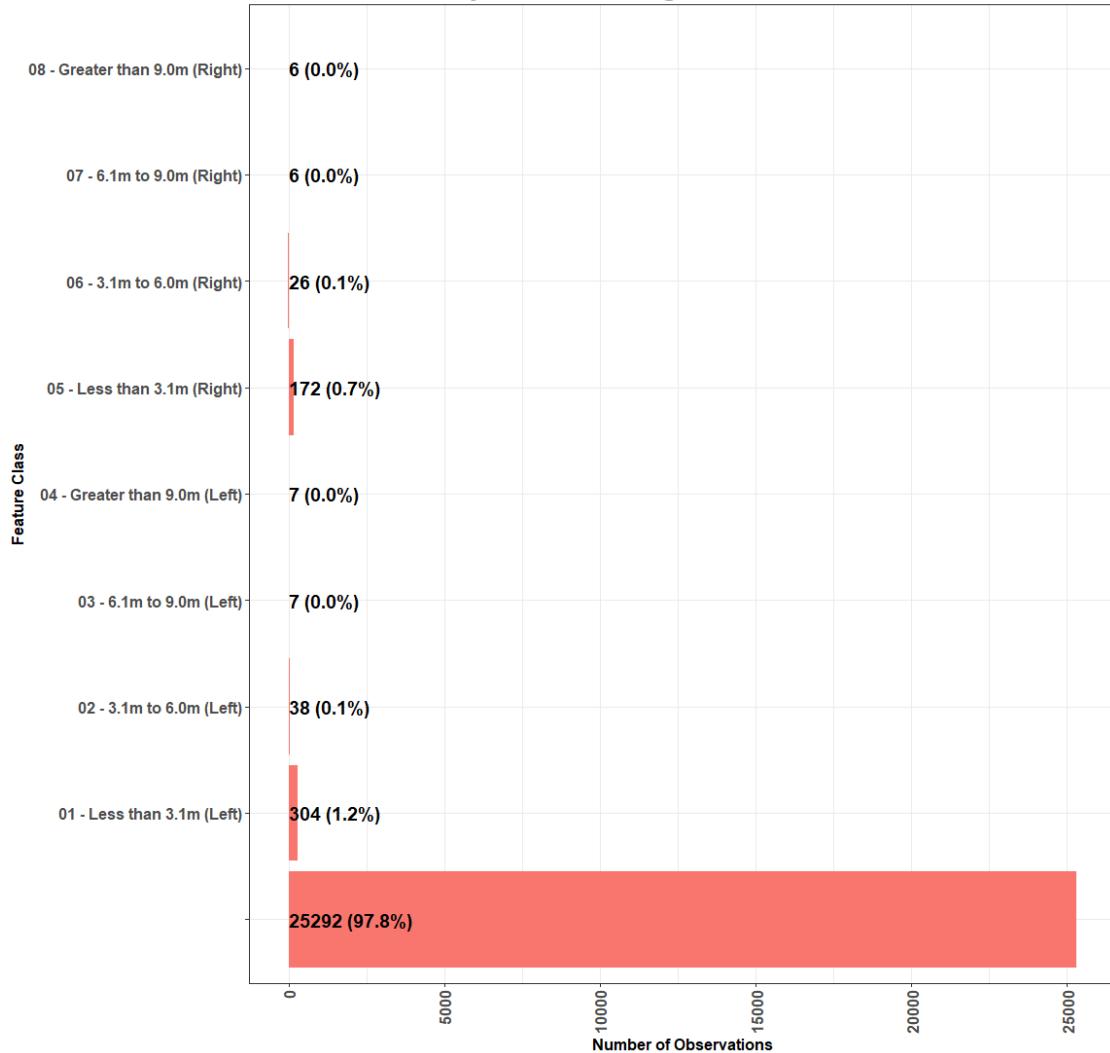
**Plot of Feature:OFFSET1
Data:All 2015-Only 2015-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:OFFSET1  
## DATA:All 2016-Only 2016-Homologated.csv...  
##
```

```
## Number of Blank Values:25292
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF OFFSET1
##
## Feature Value          Counter    Percentage
## -----                  -----
## 25292                 97.8111
## 01 - Less than 3.1m (Left)      304       1.1757
## 02 - 3.1m to 6.0m (Left)        38        0.1470
## 03 - 6.1m to 9.0m (Left)        7         0.0271
## 04 - Greater than 9.0m (Left)   7         0.0271
## 05 - Less than 3.1m (Right)     172       0.6652
## 06 - 3.1m to 6.0m (Right)       26        0.1005
## 07 - 6.1m to 9.0m (Right)       6         0.0232
## 08 - Greater than 9.0m (Right)  6         0.0232
```

Plot of Feature:OFFSET1
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:OFFSET1  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:26032  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET1  

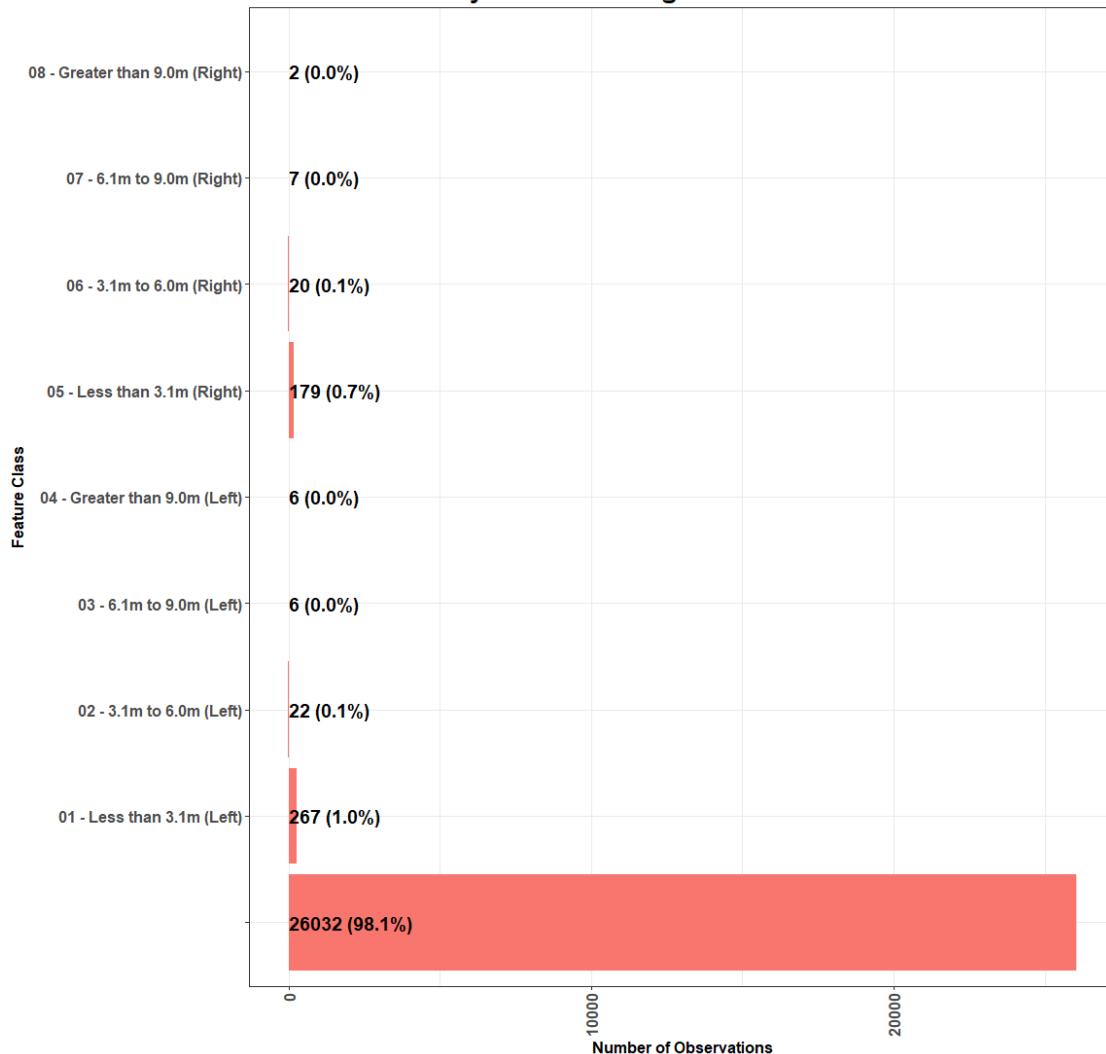
##  

## Feature Value Counter Percentage  

## -----
```

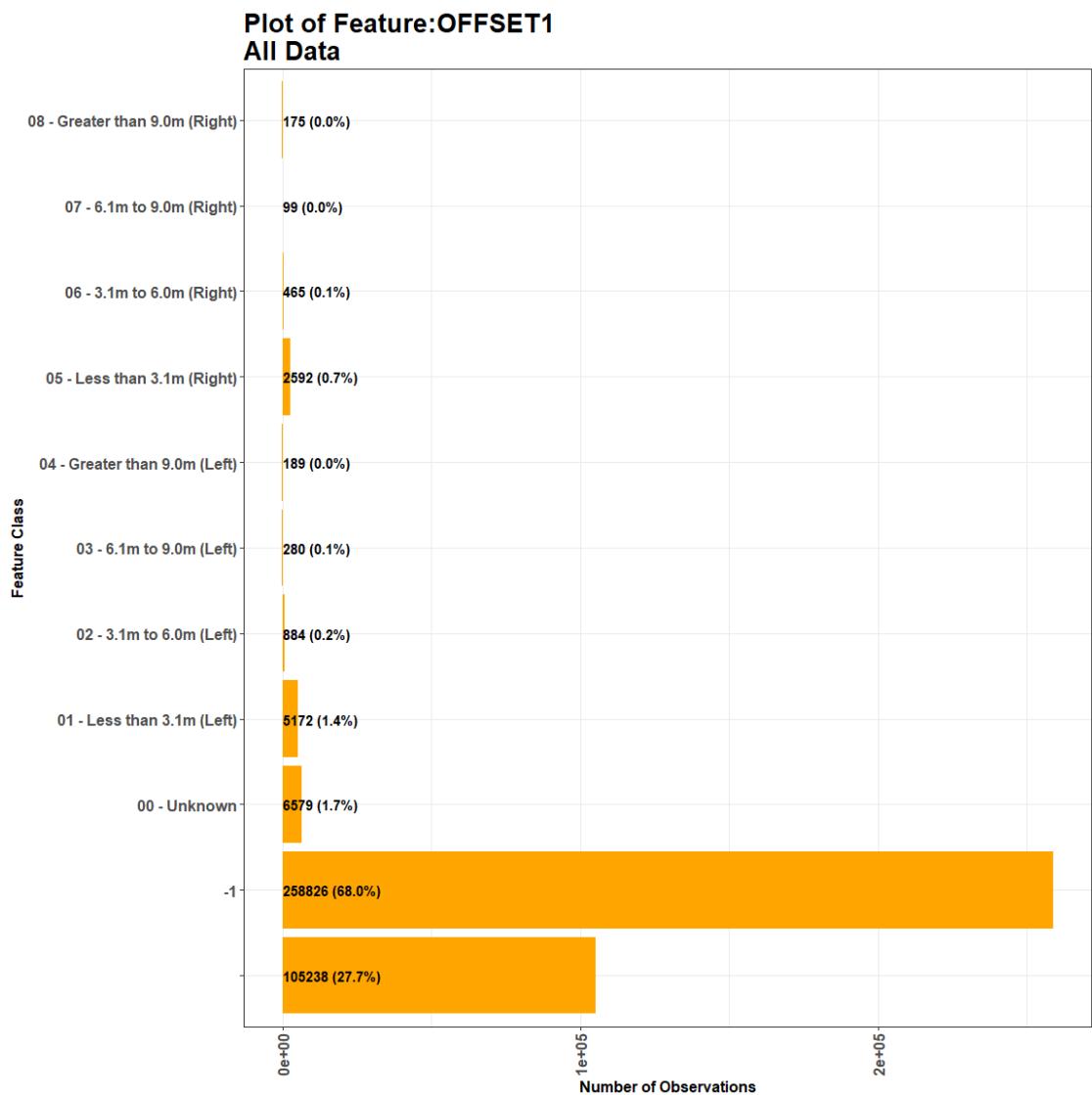
##	26032	98.0822
## 01 - Less than 3.1m (Left)	267	1.0060
## 02 - 3.1m to 6.0m (Left)	22	0.0829
## 03 - 6.1m to 9.0m (Left)	6	0.0226
## 04 - Greater than 9.0m (Left)	6	0.0226
## 05 - Less than 3.1m (Right)	179	0.6744
## 06 - 3.1m to 6.0m (Right)	20	0.0754
## 07 - 6.1m to 9.0m (Right)	7	0.0264
## 08 - Greater than 9.0m (Right)	2	0.0075

**Plot of Feature:OFFSET1
Data:All 2017-Only 2017-Homologated.csv**



```
##  
## ======  
## FINAL INFO CHECKING FEATURE:OFFSET1  
## ALL DATA...  
## ======
```

```
##  
## Number of Blank Values:105238  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 11
```



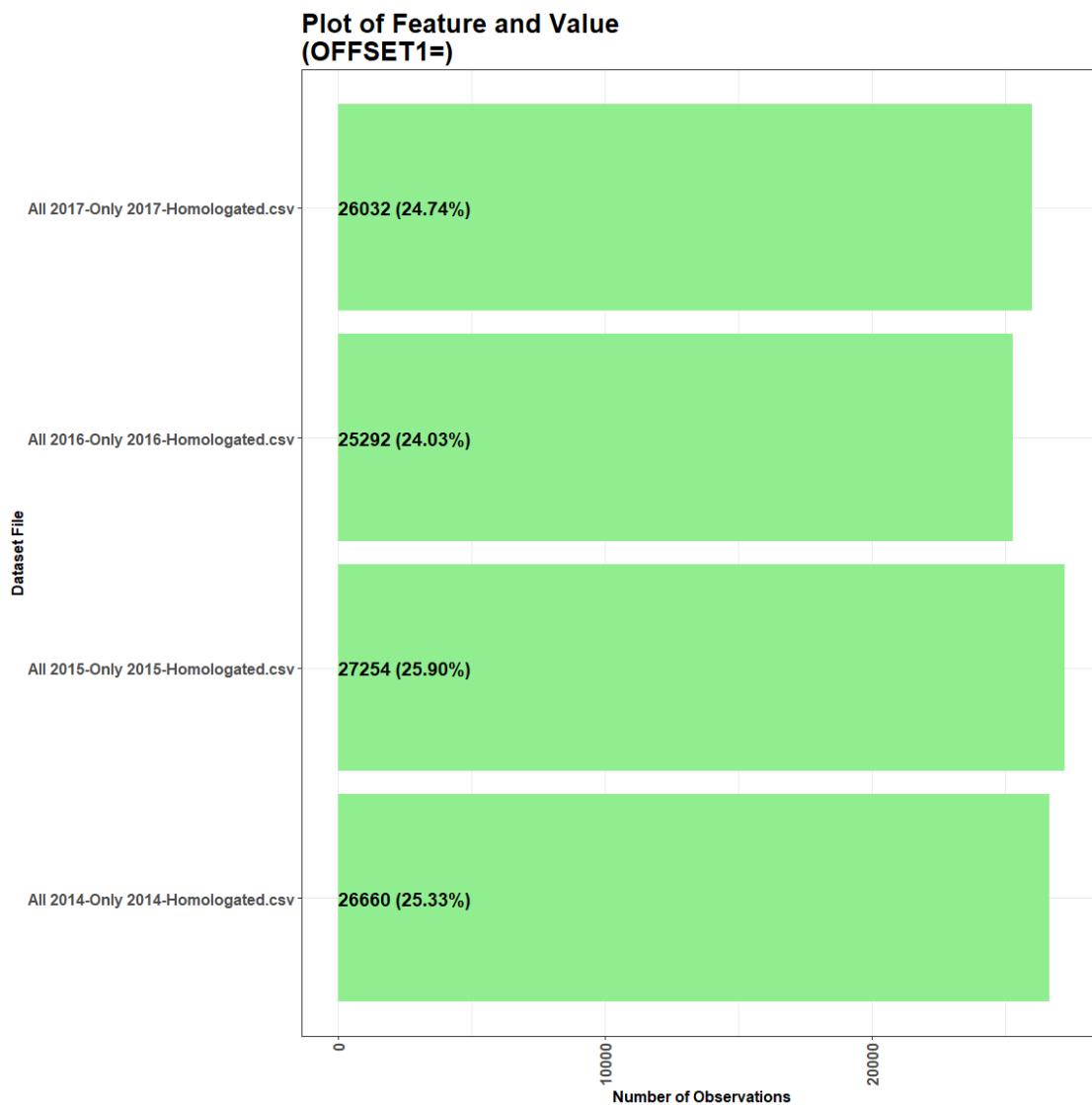
```
## [1] "TOP 100 FEATURES COUNTERS OF:OFFSET1"
```

Feature Value	Counter	Percentage
-1	258826	68.0228
00 - Unknown	6579	1.7290
01 - Less than 3.1m (Left)	5172	1.3593
02 - 3.1m to 6.0m (Left)	884	0.2323
03 - 6.1m to 9.0m (Left)	280	0.0736
04 - Greater than 9.0m (Left)	189	0.0497
05 - Less than 3.1m (Right)	2592	0.6812
06 - 3.1m to 6.0m (Right)	465	0.1222

07 - 6.1m to 9.0m (Right)	99	0.0260
08 - Greater than 9.0m (Right)	175	0.0460

10.1 OFFSET1 = “” (Blank)

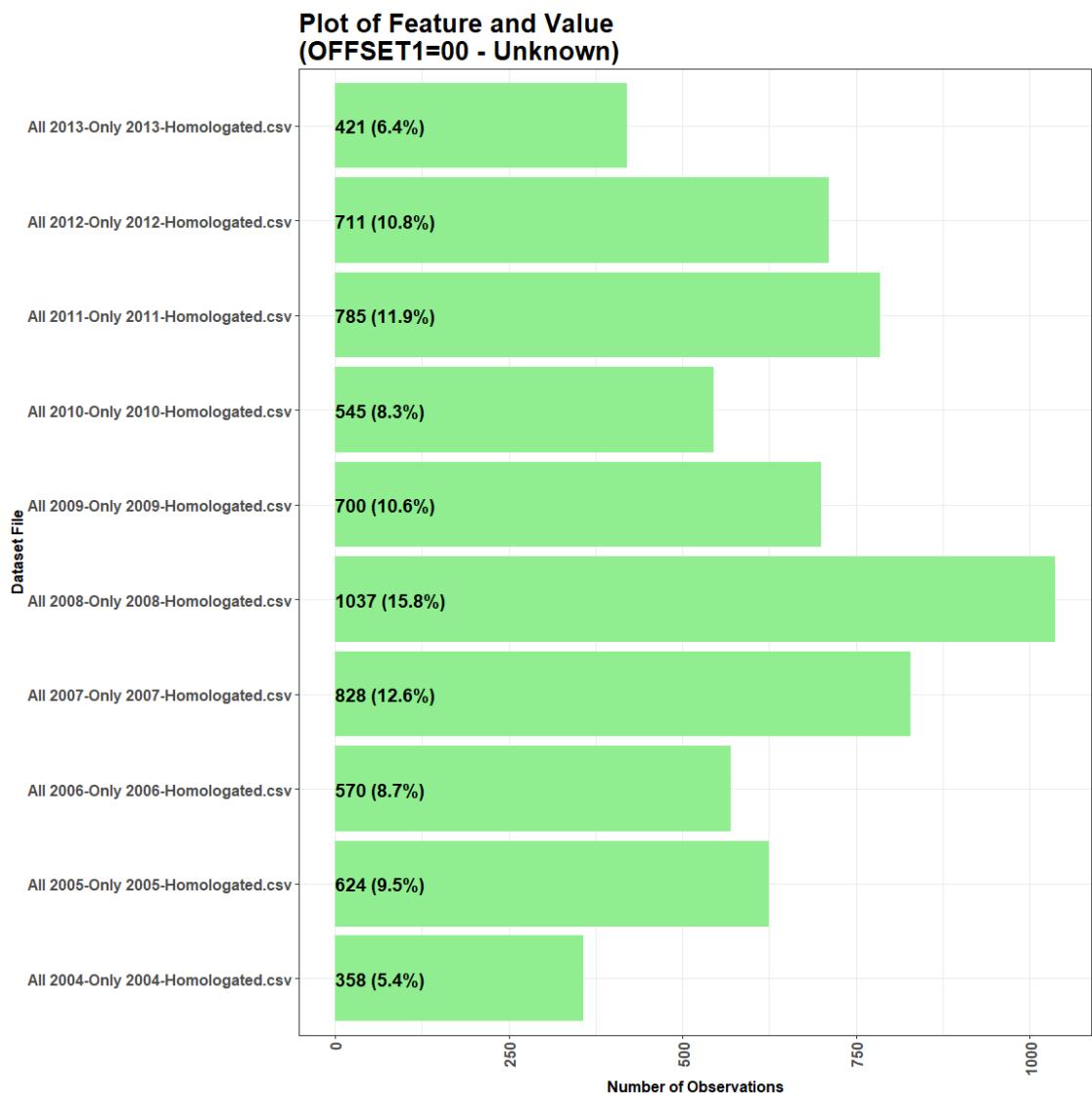
```
##  
## =====  
## CHECKING FEATURE AND VALUE (OFFSET1=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 26660 27254  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25292 26032
```



DATASET FILE	COUNTER OF (OFFSET1=)	Percentage
All 2014-Only 2014-Homologated.csv	26660	25.33
All 2015-Only 2015-Homologated.csv	27254	25.90
All 2016-Only 2016-Homologated.csv	25292	24.03
All 2017-Only 2017-Homologated.csv	26032	24.74

10.2 OFFSET1 = “00 - Unknown”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (OFFSET1=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 358 624  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 570 828  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 1037 700  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 545 785  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 711 421
```

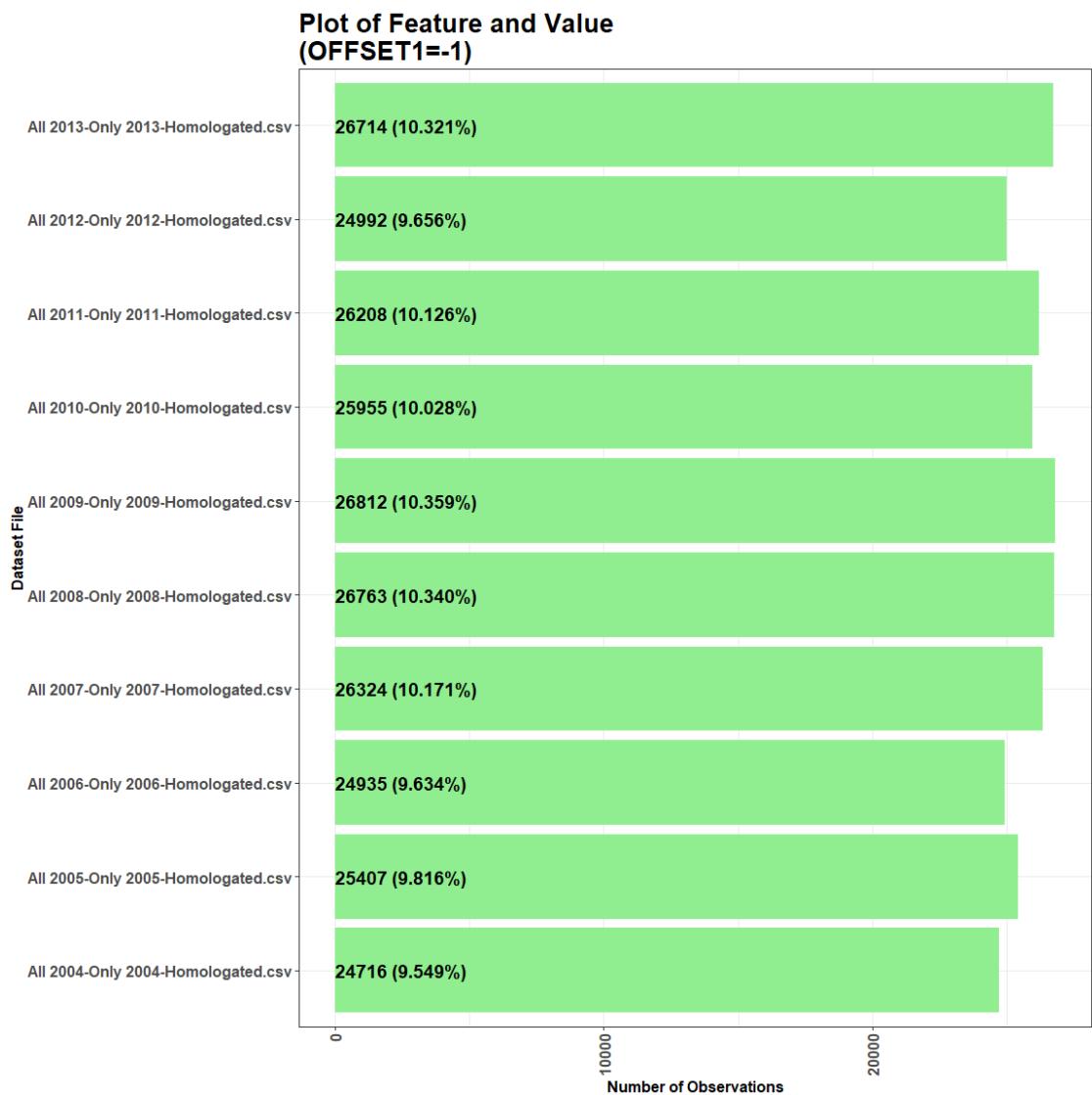


DATASET FILE	COUNTER OF (OFFSET1=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	358	5.442	
All 2005-Only 2005-Homologated.csv	624	9.485	
All 2006-Only 2006-Homologated.csv	570	8.664	
All 2007-Only 2007-Homologated.csv	828	12.585	
All 2008-Only 2008-Homologated.csv	1037	15.762	

All 2009-Only 2009-Homologated.csv	700	10.640
All 2010-Only 2010-Homologated.csv	545	8.284
All 2011-Only 2011-Homologated.csv	785	11.932
All 2012-Only 2012-Homologated.csv	711	10.807
All 2013-Only 2013-Homologated.csv	421	6.399

10.3 OFFSET1 = “-1”

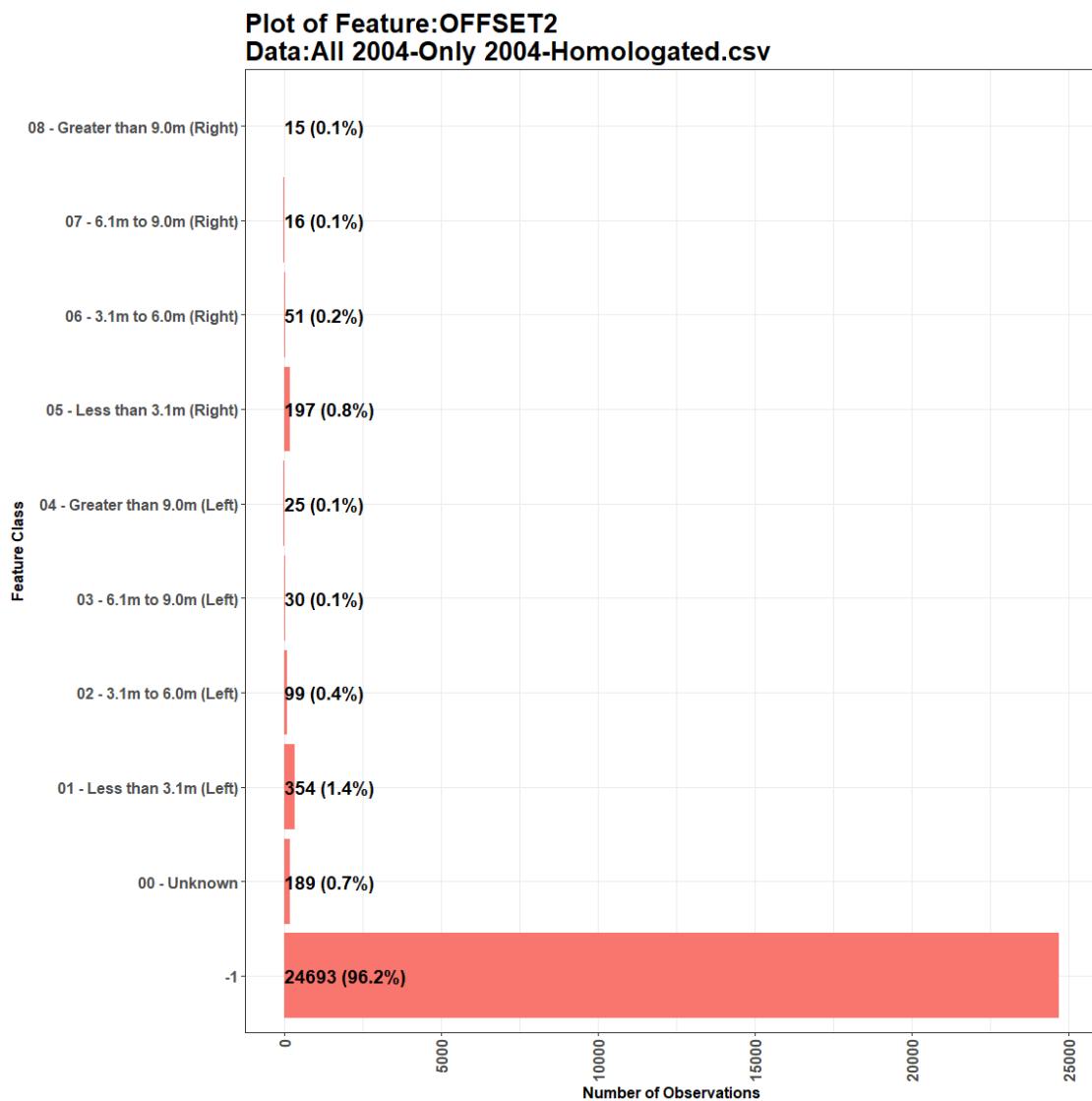
```
##  
## ======  
## CHECKING FEATURE AND VALUE (OFFSET1=-1)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 24716 25407  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 24935 26324  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 26763 26812  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 25955 26208  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 24992 26714
```



DATASET FILE	COUNTER OF (OFFSET1=-1)	Percentage
All 2004-Only 2004-Homologated.csv	24716	9.549
All 2005-Only 2005-Homologated.csv	25407	9.816
All 2006-Only 2006-Homologated.csv	24935	9.634
All 2007-Only 2007-Homologated.csv	26324	10.171
All 2008-Only 2008-Homologated.csv	26763	10.340
All 2009-Only 2009-Homologated.csv	26812	10.359
All 2010-Only 2010-Homologated.csv	25955	10.028
All 2011-Only 2011-Homologated.csv	26208	10.126
All 2012-Only 2012-Homologated.csv	24992	9.656
All 2013-Only 2013-Homologated.csv	26714	10.321

11. Offset2 (OFFSET2)

```
##  
## -----  
## CHECKING FEATURE:OFFSET2  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 24693 96.1977  
## 00 - Unknown 189 0.7363  
## 01 - Less than 3.1m (Left) 354 1.3791  
## 02 - 3.1m to 6.0m (Left) 99 0.3857  
## 03 - 6.1m to 9.0m (Left) 30 0.1169  
## 04 - Greater than 9.0m (Left) 25 0.0974  
## 05 - Less than 3.1m (Right) 197 0.7675  
## 06 - 3.1m to 6.0m (Right) 51 0.1987  
## 07 - 6.1m to 9.0m (Right) 16 0.0623  
## 08 - Greater than 9.0m (Right) 15 0.0584
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET2  

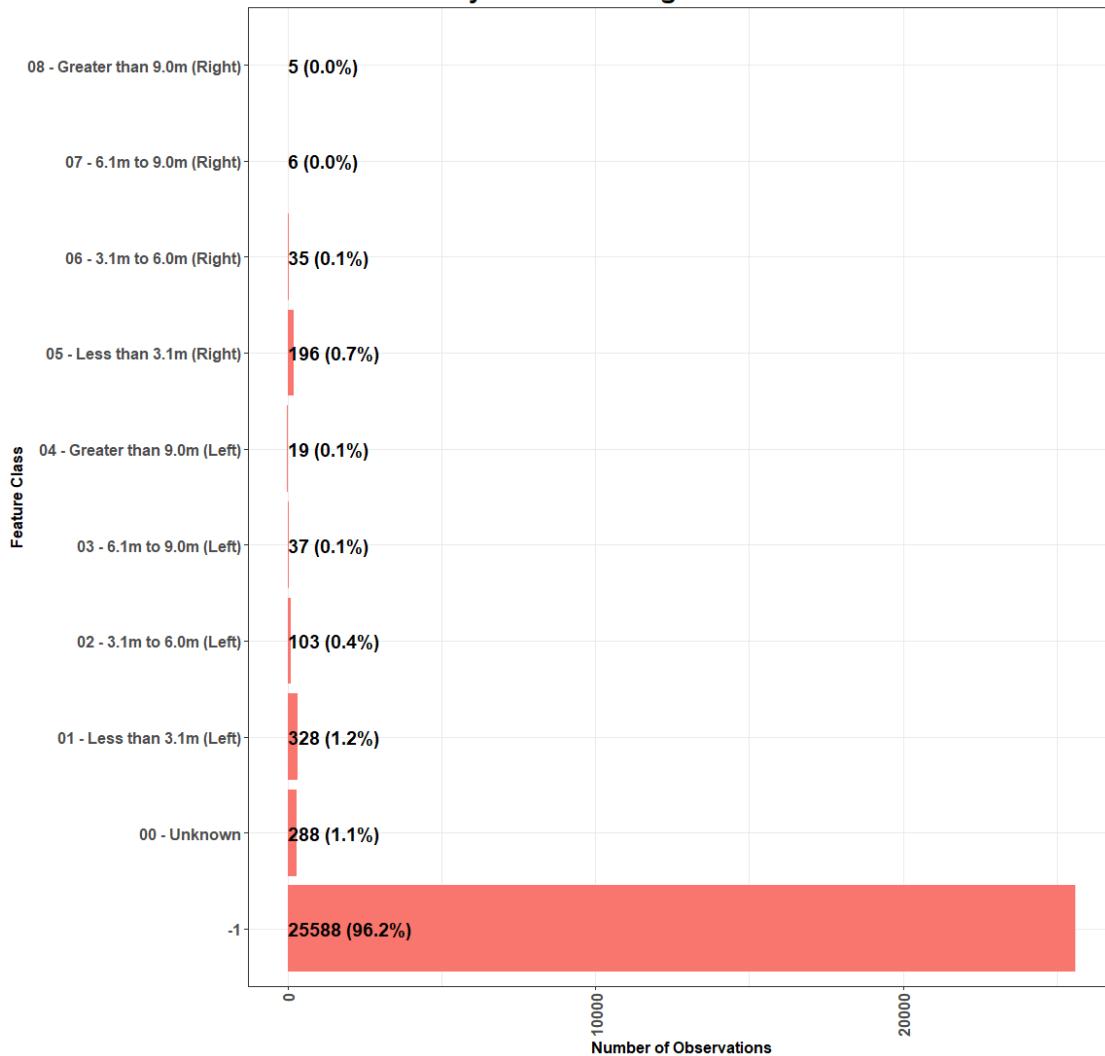
##  

## Feature Value Counter Percentage  

## -----
```

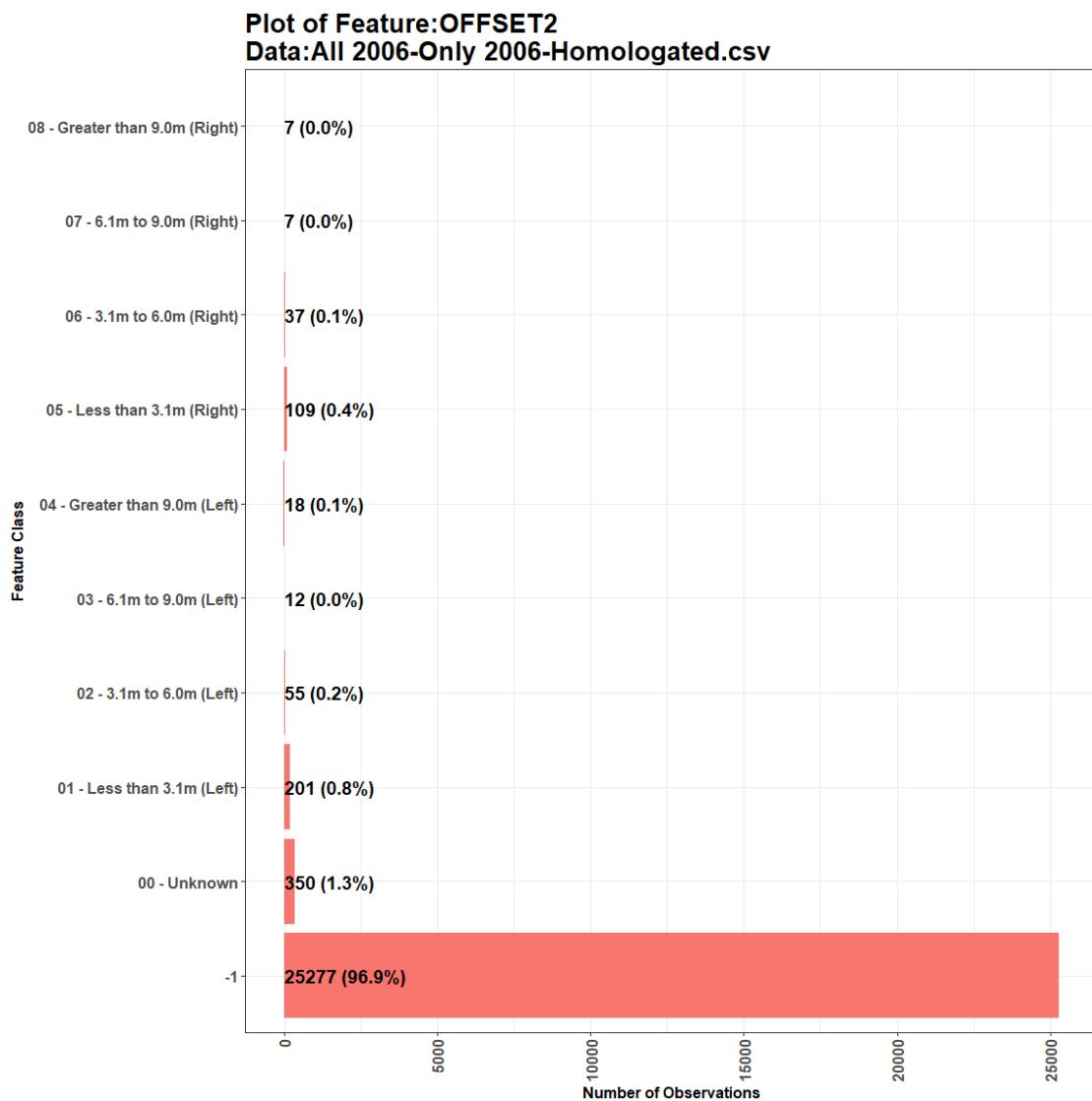
## -1	25588	96.1774
## 00 - Unknown	288	1.0825
## 01 - Less than 3.1m (Left)	328	1.2329
## 02 - 3.1m to 6.0m (Left)	103	0.3871
## 03 - 6.1m to 9.0m (Left)	37	0.1391
## 04 - Greater than 9.0m (Left)	19	0.0714
## 05 - Less than 3.1m (Right)	196	0.7367
## 06 - 3.1m to 6.0m (Right)	35	0.1316
## 07 - 6.1m to 9.0m (Right)	6	0.0226
## 08 - Greater than 9.0m (Right)	5	0.0188

**Plot of Feature:OFFSET2
Data:All 2005-Only 2005-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET2
## DATA:All 2006-Only 2006-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25277 96.9470  
## 00 - Unknown 350 1.3424  
## 01 - Less than 3.1m (Left) 201 0.7709  
## 02 - 3.1m to 6.0m (Left) 55 0.2109  
## 03 - 6.1m to 9.0m (Left) 12 0.0460  
## 04 - Greater than 9.0m (Left) 18 0.0690  
## 05 - Less than 3.1m (Right) 109 0.4181  
## 06 - 3.1m to 6.0m (Right) 37 0.1419  
## 07 - 6.1m to 9.0m (Right) 7 0.0268  
## 08 - Greater than 9.0m (Right) 7 0.0268
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET2  

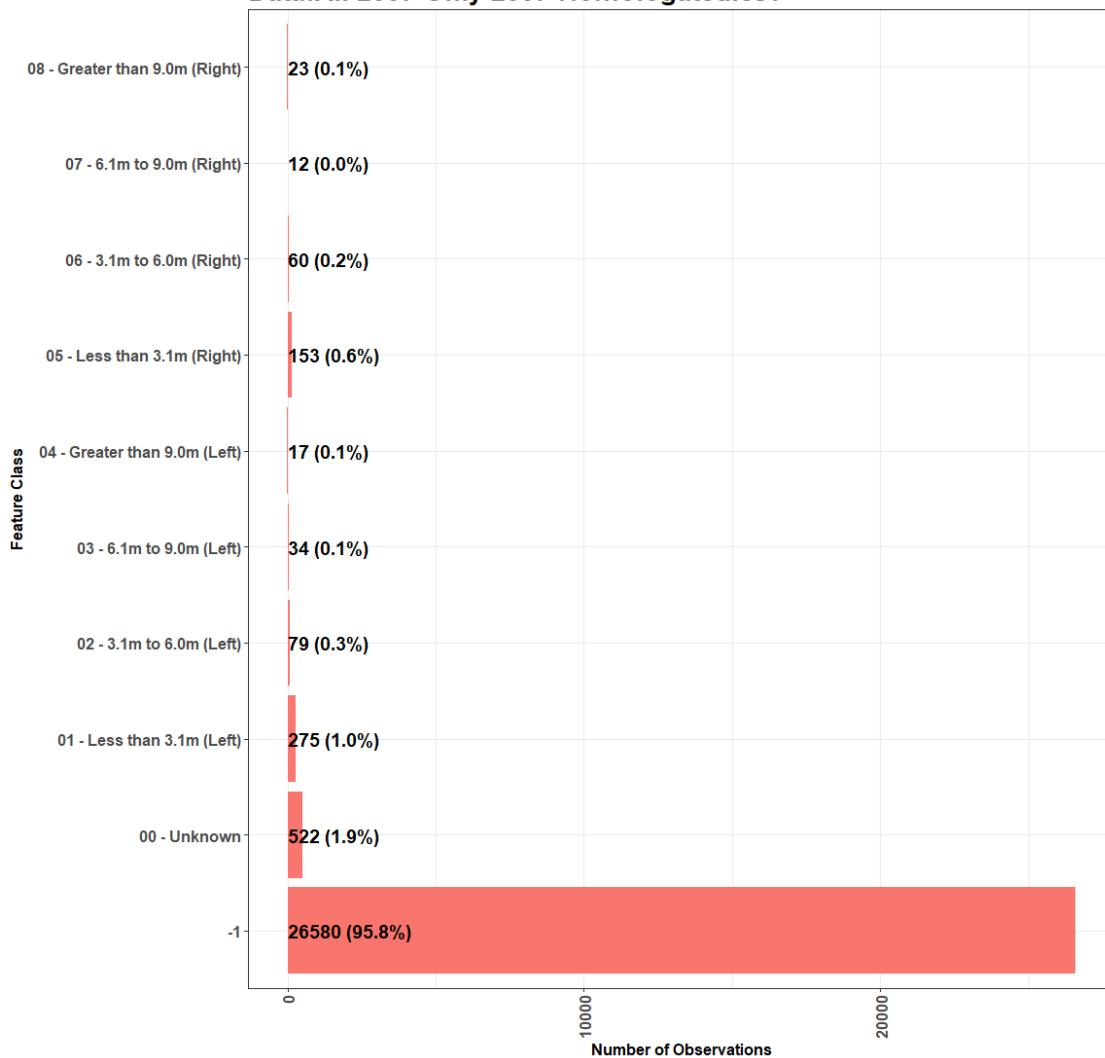
##  

## Feature Value Counter Percentage  

## -----
```

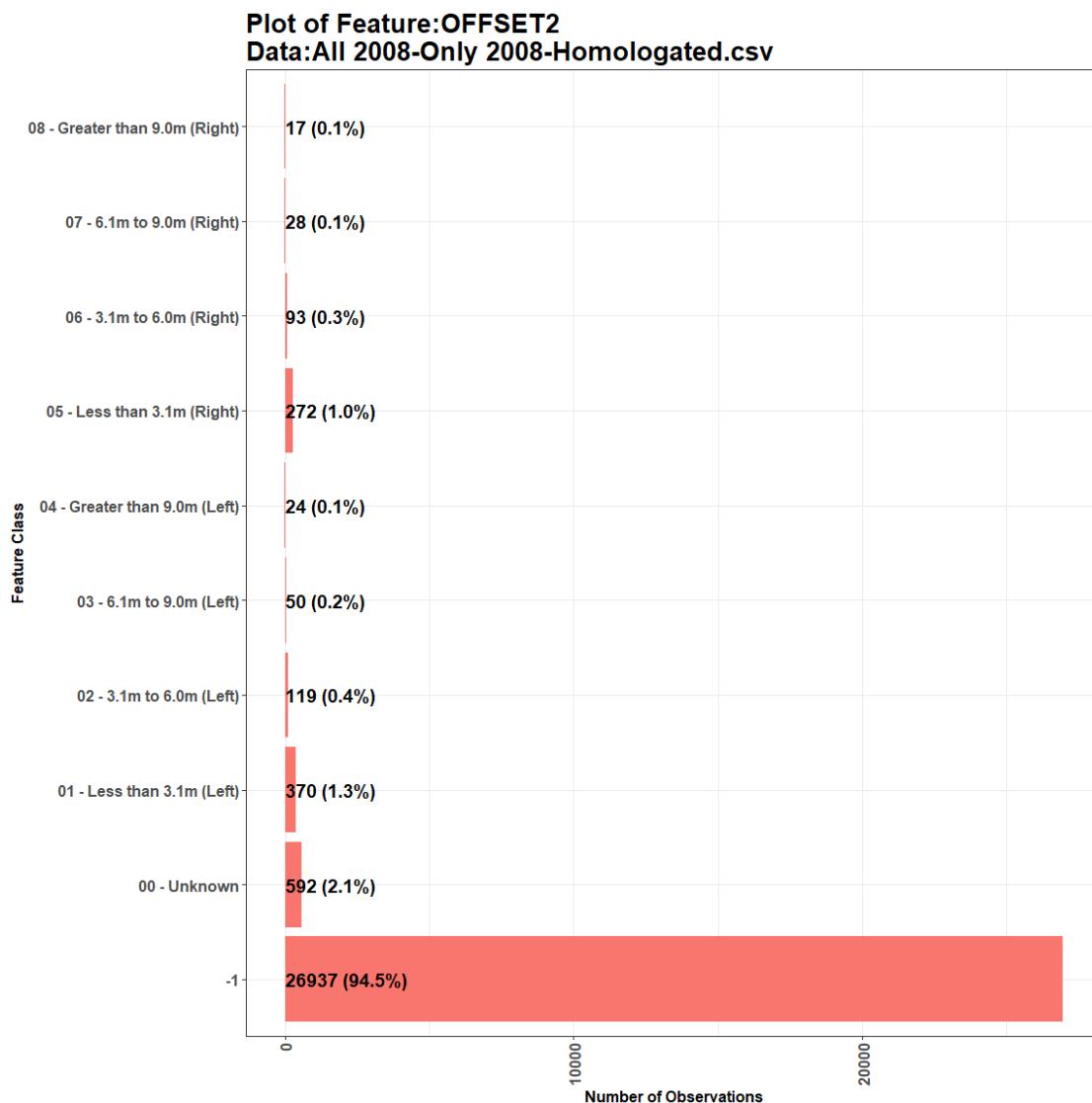
## -1	26580	95.7665
## 00 - Unknown	522	1.8807
## 01 - Less than 3.1m (Left)	275	0.9908
## 02 - 3.1m to 6.0m (Left)	79	0.2846
## 03 - 6.1m to 9.0m (Left)	34	0.1225
## 04 - Greater than 9.0m (Left)	17	0.0613
## 05 - Less than 3.1m (Right)	153	0.5513
## 06 - 3.1m to 6.0m (Right)	60	0.2162
## 07 - 6.1m to 9.0m (Right)	12	0.0432
## 08 - Greater than 9.0m (Right)	23	0.0829

**Plot of Feature:OFFSET2
Data:All 2007-Only 2007-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET2
## DATA:All 2008-Only 2008-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26937 94.5092  
## 00 - Unknown 592 2.0770  
## 01 - Less than 3.1m (Left) 370 1.2982  
## 02 - 3.1m to 6.0m (Left) 119 0.4175  
## 03 - 6.1m to 9.0m (Left) 50 0.1754  
## 04 - Greater than 9.0m (Left) 24 0.0842  
## 05 - Less than 3.1m (Right) 272 0.9543  
## 06 - 3.1m to 6.0m (Right) 93 0.3263  
## 07 - 6.1m to 9.0m (Right) 28 0.0982  
## 08 - Greater than 9.0m (Right) 17 0.0596
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET2  

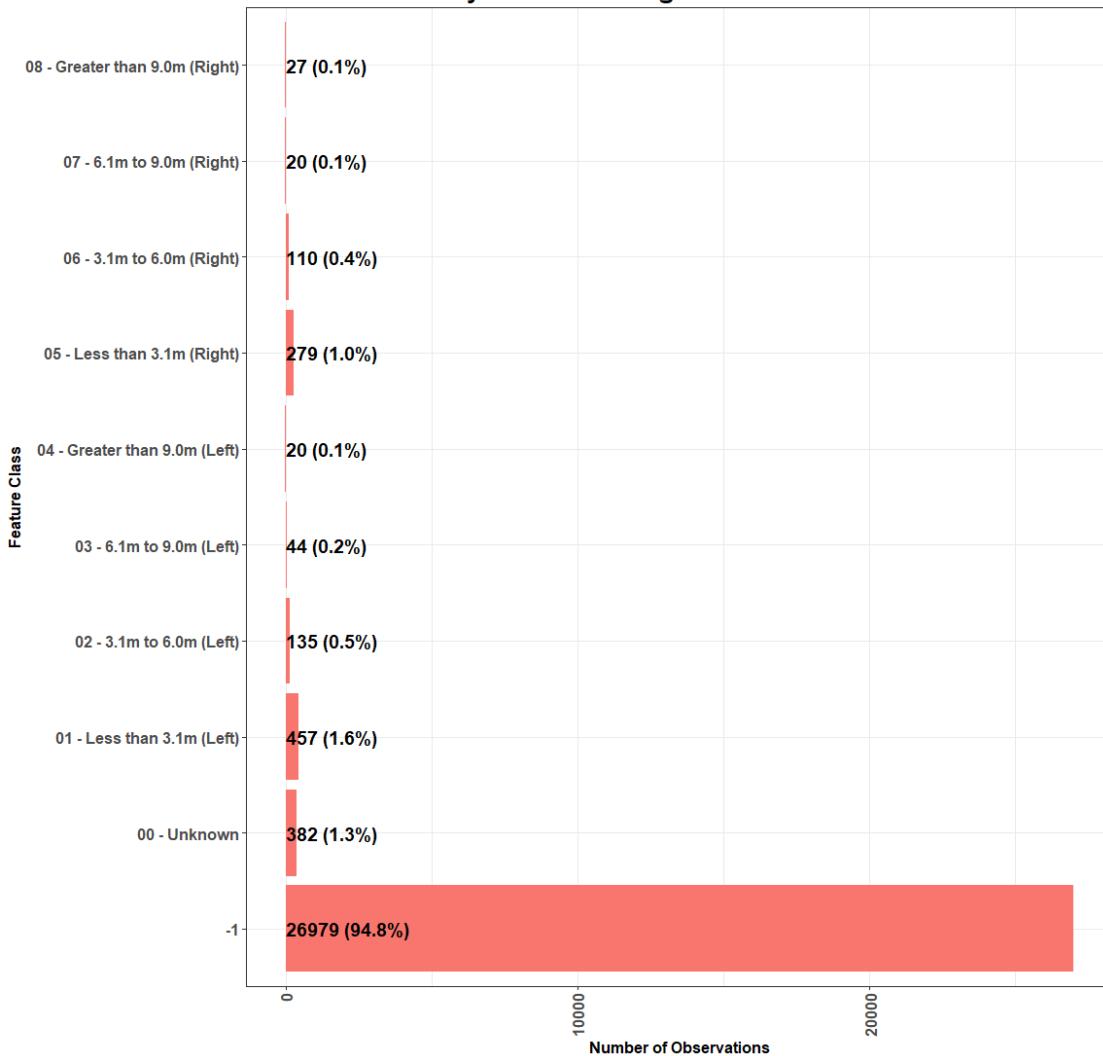
##  

## Feature Value Counter Percentage  

## -----
```

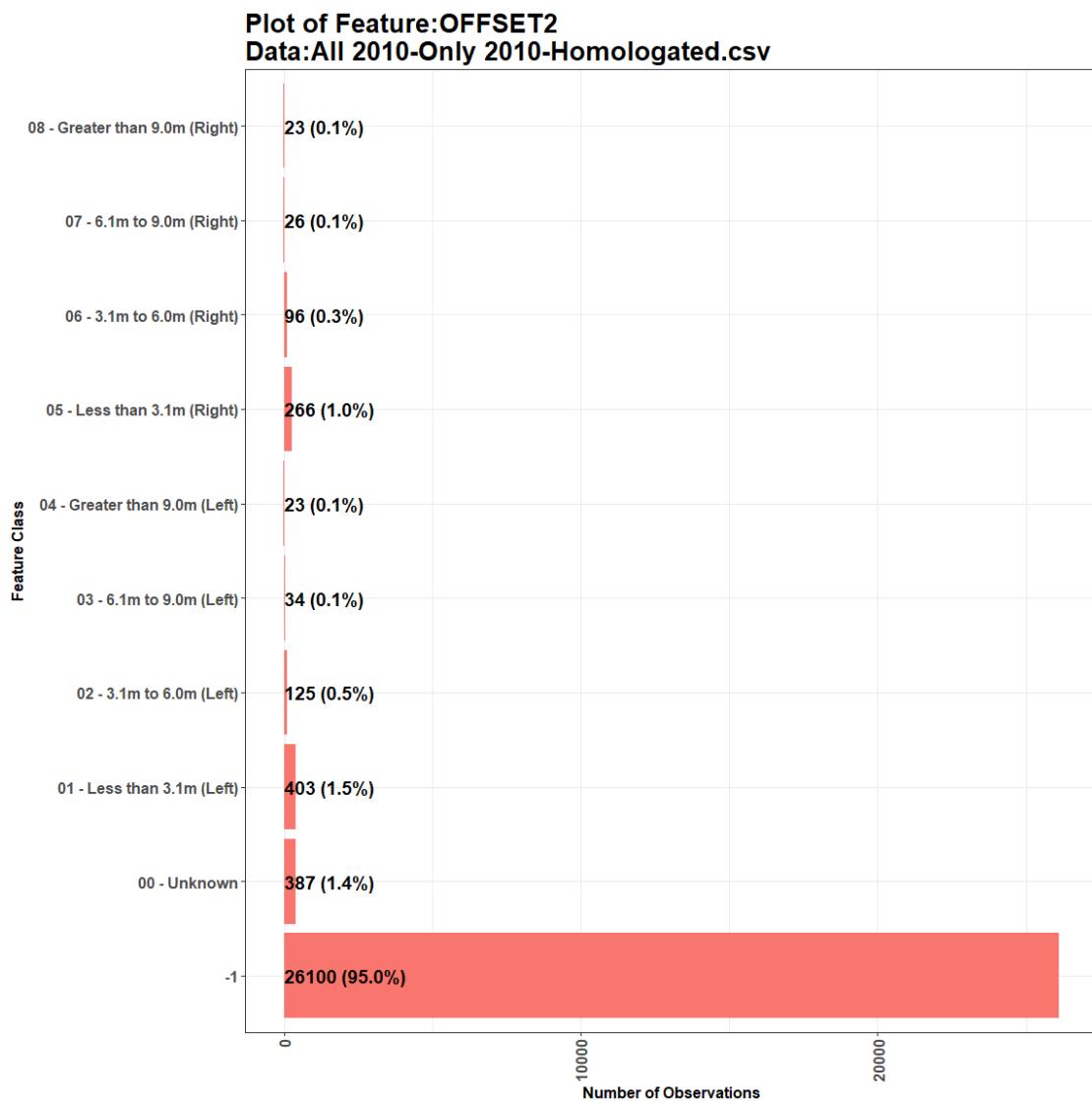
## -1	26979	94.8195
## 00 - Unknown	382	1.3426
## 01 - Less than 3.1m (Left)	457	1.6062
## 02 - 3.1m to 6.0m (Left)	135	0.4745
## 03 - 6.1m to 9.0m (Left)	44	0.1546
## 04 - Greater than 9.0m (Left)	20	0.0703
## 05 - Less than 3.1m (Right)	279	0.9806
## 06 - 3.1m to 6.0m (Right)	110	0.3866
## 07 - 6.1m to 9.0m (Right)	20	0.0703
## 08 - Greater than 9.0m (Right)	27	0.0949

**Plot of Feature:OFFSET2
Data:All 2009-Only 2009-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET2
## DATA:All 2010-Only 2010-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26100 94.9678  
## 00 - Unknown 387 1.4081  
## 01 - Less than 3.1m (Left) 403 1.4664  
## 02 - 3.1m to 6.0m (Left) 125 0.4548  
## 03 - 6.1m to 9.0m (Left) 34 0.1237  
## 04 - Greater than 9.0m (Left) 23 0.0837  
## 05 - Less than 3.1m (Right) 266 0.9679  
## 06 - 3.1m to 6.0m (Right) 96 0.3493  
## 07 - 6.1m to 9.0m (Right) 26 0.0946  
## 08 - Greater than 9.0m (Right) 23 0.0837
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET2  

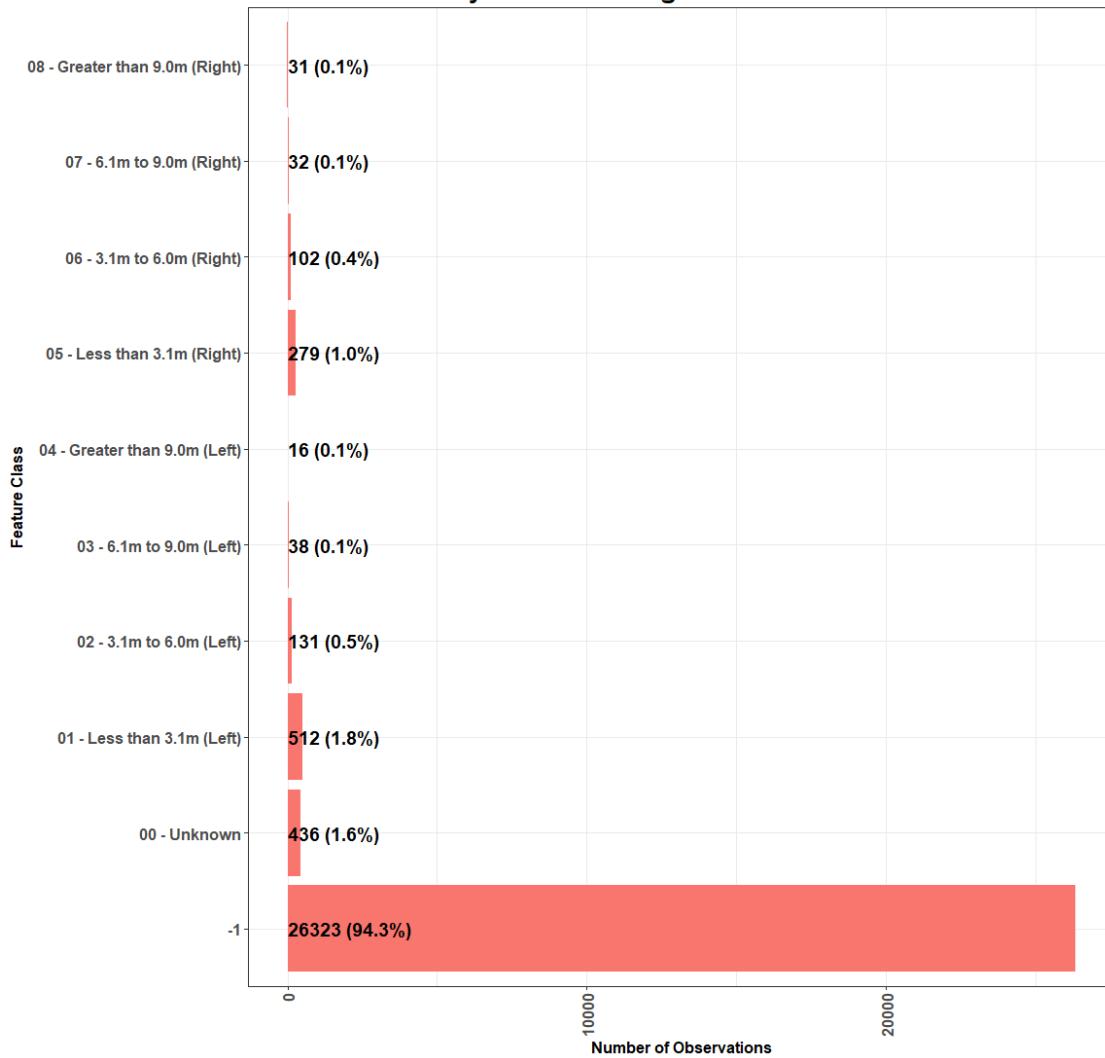
##  

## Feature Value Counter Percentage  

## -----
```

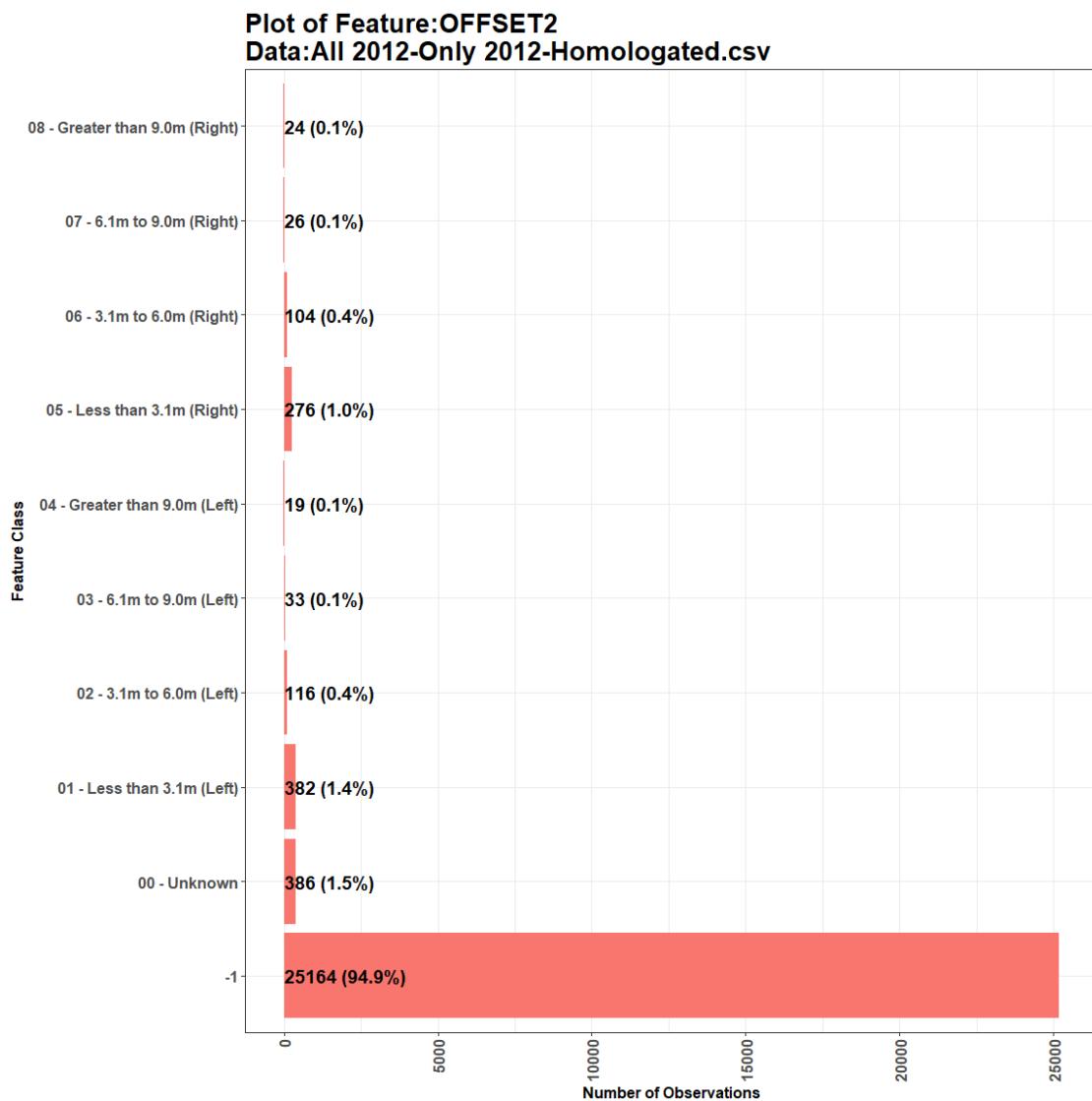
## -1	26323	94.3477
## 00 - Unknown	436	1.5627
## 01 - Less than 3.1m (Left)	512	1.8351
## 02 - 3.1m to 6.0m (Left)	131	0.4695
## 03 - 6.1m to 9.0m (Left)	38	0.1362
## 04 - Greater than 9.0m (Left)	16	0.0573
## 05 - Less than 3.1m (Right)	279	1.0000
## 06 - 3.1m to 6.0m (Right)	102	0.3656
## 07 - 6.1m to 9.0m (Right)	32	0.1147
## 08 - Greater than 9.0m (Right)	31	0.1111

**Plot of Feature:OFFSET2
Data:All 2011-Only 2011-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET2
## DATA:All 2012-Only 2012-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25164 94.8511  
## 00 - Unknown 386 1.4550  
## 01 - Less than 3.1m (Left) 382 1.4399  
## 02 - 3.1m to 6.0m (Left) 116 0.4372  
## 03 - 6.1m to 9.0m (Left) 33 0.1244  
## 04 - Greater than 9.0m (Left) 19 0.0716  
## 05 - Less than 3.1m (Right) 276 1.0403  
## 06 - 3.1m to 6.0m (Right) 104 0.3920  
## 07 - 6.1m to 9.0m (Right) 26 0.0980  
## 08 - Greater than 9.0m (Right) 24 0.0905
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET2  

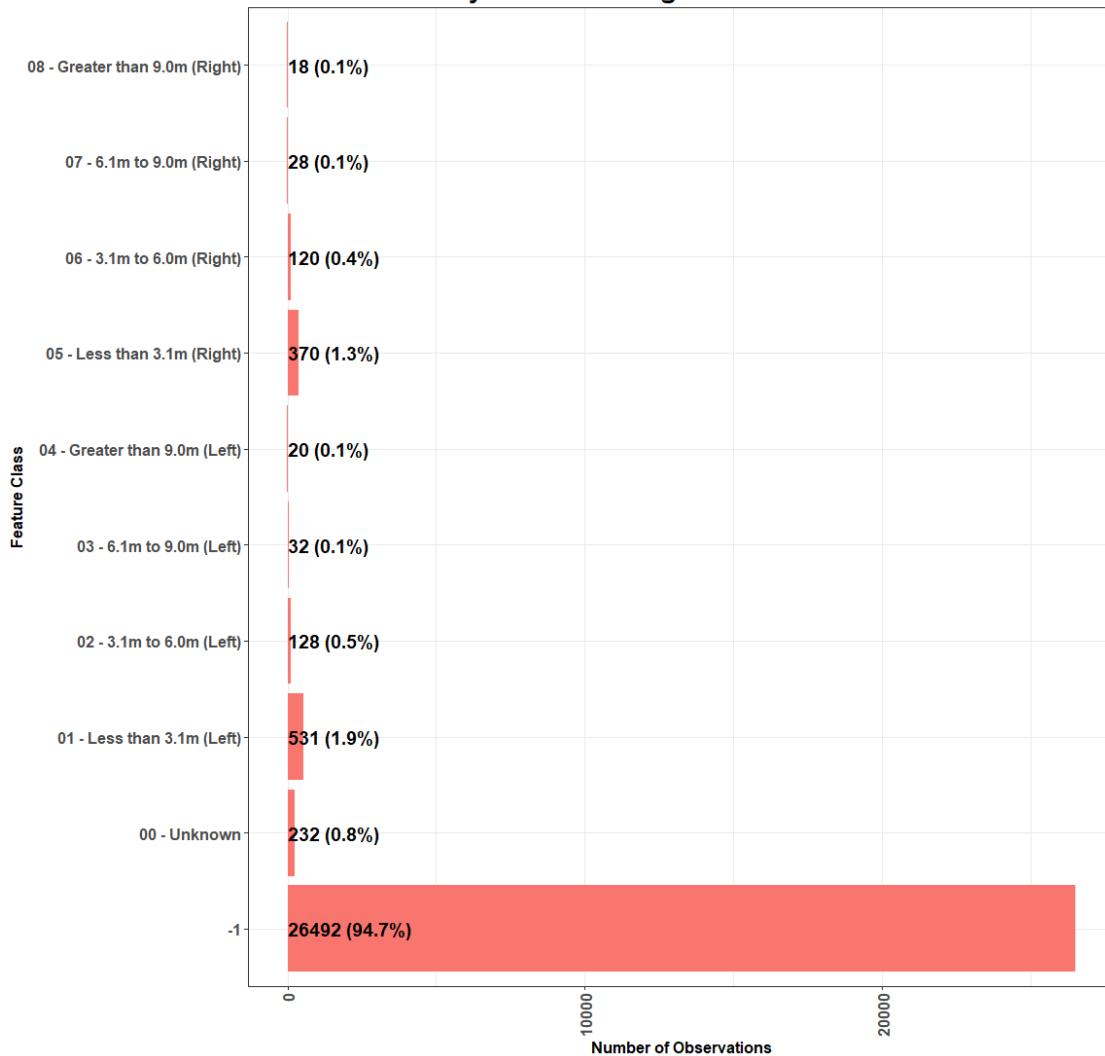
##  

## Feature Value Counter Percentage  

## -----
```

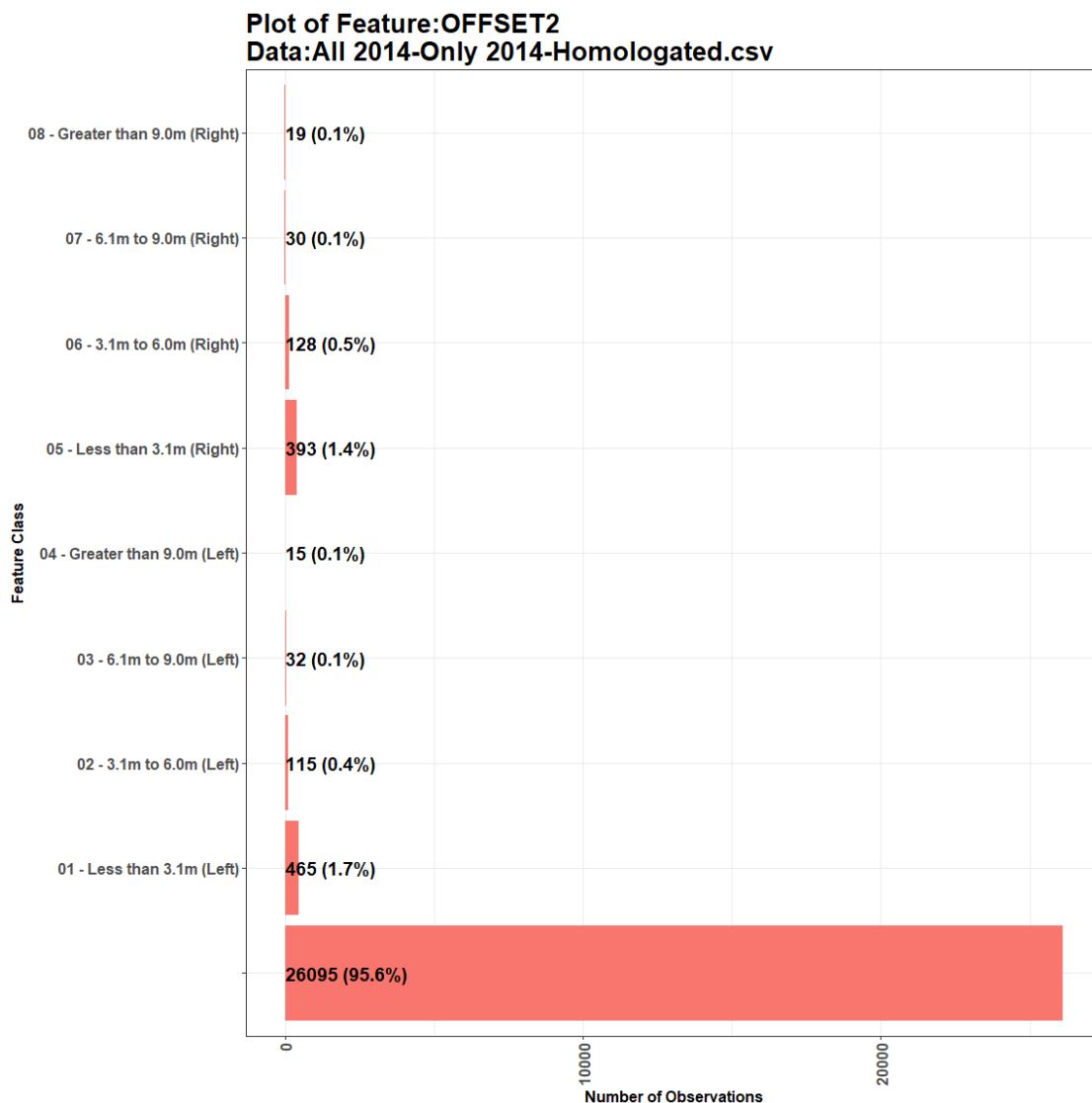
## -1	26492	94.7124
## 00 - Unknown	232	0.8294
## 01 - Less than 3.1m (Left)	531	1.8984
## 02 - 3.1m to 6.0m (Left)	128	0.4576
## 03 - 6.1m to 9.0m (Left)	32	0.1144
## 04 - Greater than 9.0m (Left)	20	0.0715
## 05 - Less than 3.1m (Right)	370	1.3228
## 06 - 3.1m to 6.0m (Right)	120	0.4290
## 07 - 6.1m to 9.0m (Right)	28	0.1001
## 08 - Greater than 9.0m (Right)	18	0.0644

**Plot of Feature:OFFSET2
Data:All 2013-Only 2013-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET2
## DATA:All 2014-Only 2014-Homologated.csv...
```

```
##  
## Number of Blank Values: 26095  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 9  
##  
## TOP 100 FEATURES OF OFFSET2  
##  
## Feature Value Counter Percentage  
## -----  
## 26095 95.6141  
## 01 - Less than 3.1m (Left) 465 1.7038  
## 02 - 3.1m to 6.0m (Left) 115 0.4214  
## 03 - 6.1m to 9.0m (Left) 32 0.1173  
## 04 - Greater than 9.0m (Left) 15 0.0550  
## 05 - Less than 3.1m (Right) 393 1.4400  
## 06 - 3.1m to 6.0m (Right) 128 0.4690  
## 07 - 6.1m to 9.0m (Right) 30 0.1099  
## 08 - Greater than 9.0m (Right) 19 0.0696
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:26635  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET2  

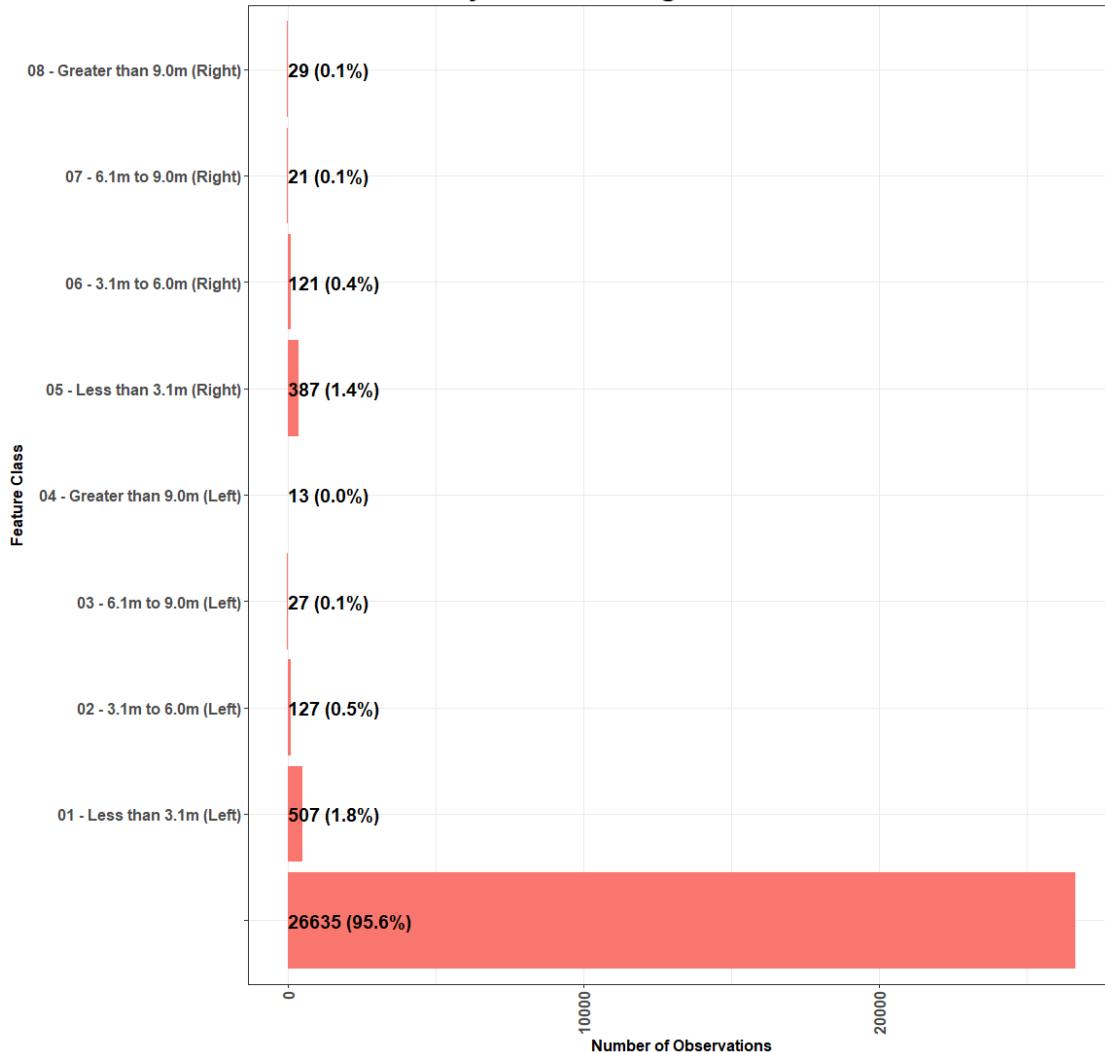
##  

## Feature Value Counter Percentage  

## -----
```

##	26635	95.5790
## 01 - Less than 3.1m (Left)	507	1.8194
## 02 - 3.1m to 6.0m (Left)	127	0.4557
## 03 - 6.1m to 9.0m (Left)	27	0.0969
## 04 - Greater than 9.0m (Left)	13	0.0467
## 05 - Less than 3.1m (Right)	387	1.3887
## 06 - 3.1m to 6.0m (Right)	121	0.4342
## 07 - 6.1m to 9.0m (Right)	21	0.0754
## 08 - Greater than 9.0m (Right)	29	0.1041

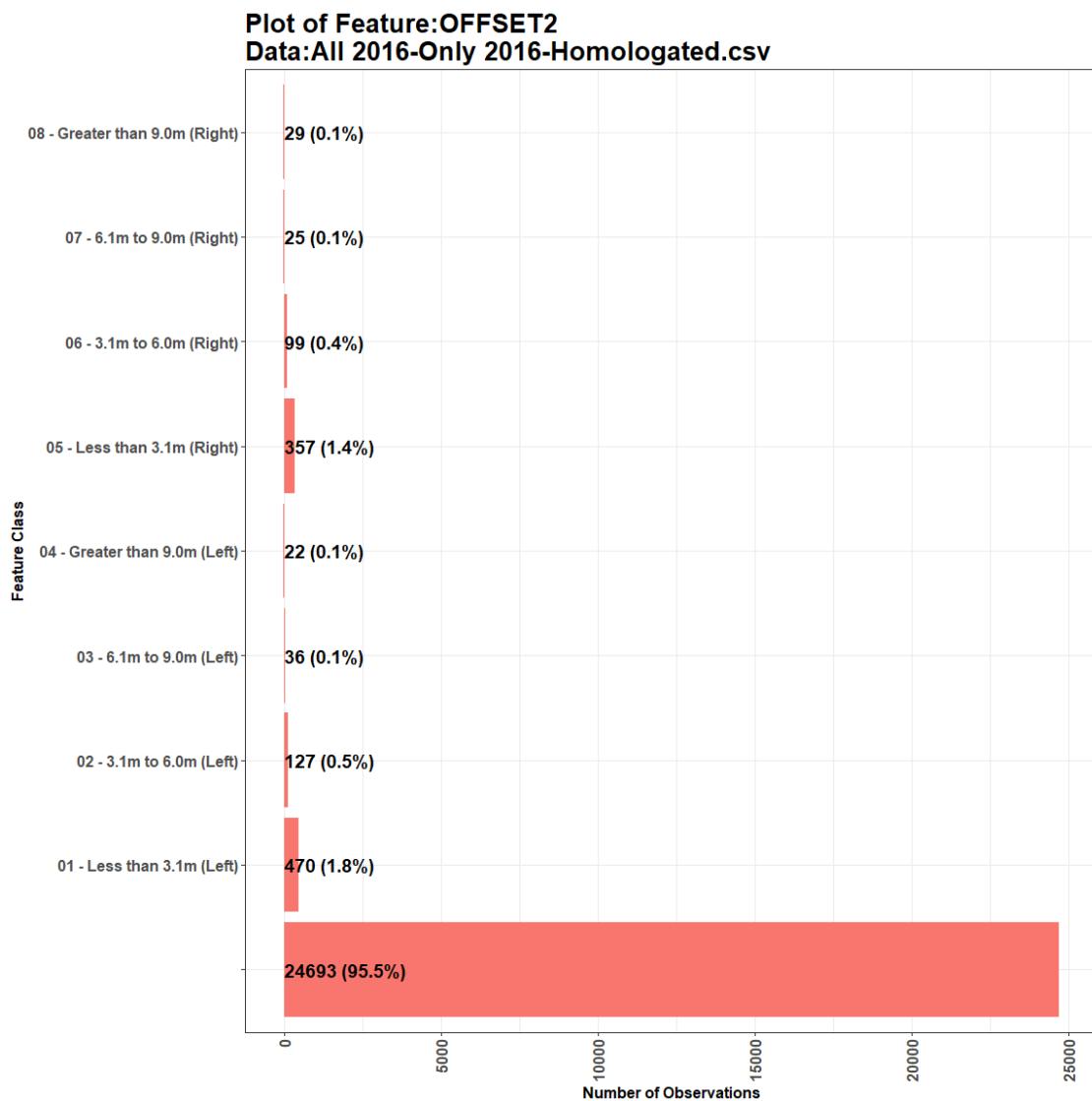
**Plot of Feature:OFFSET2
Data:All 2015-Only 2015-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:OFFSET2  
## DATA:All 2016-Only 2016-Homologated.csv...  
##
```



```
## Number of Blank Values:24693
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF OFFSET2
##
## Feature Value          Counter    Percentage
## -----                  -----
## 24693                 95.4946
## 01 - Less than 3.1m (Left)   470      1.8176
## 02 - 3.1m to 6.0m (Left)    127      0.4911
## 03 - 6.1m to 9.0m (Left)    36       0.1392
## 04 - Greater than 9.0m (Left) 22       0.0851
## 05 - Less than 3.1m (Right)  357      1.3806
## 06 - 3.1m to 6.0m (Right)   99       0.3829
## 07 - 6.1m to 9.0m (Right)   25       0.0967
## 08 - Greater than 9.0m (Right) 29       0.1122
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET2  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:25603  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET2  

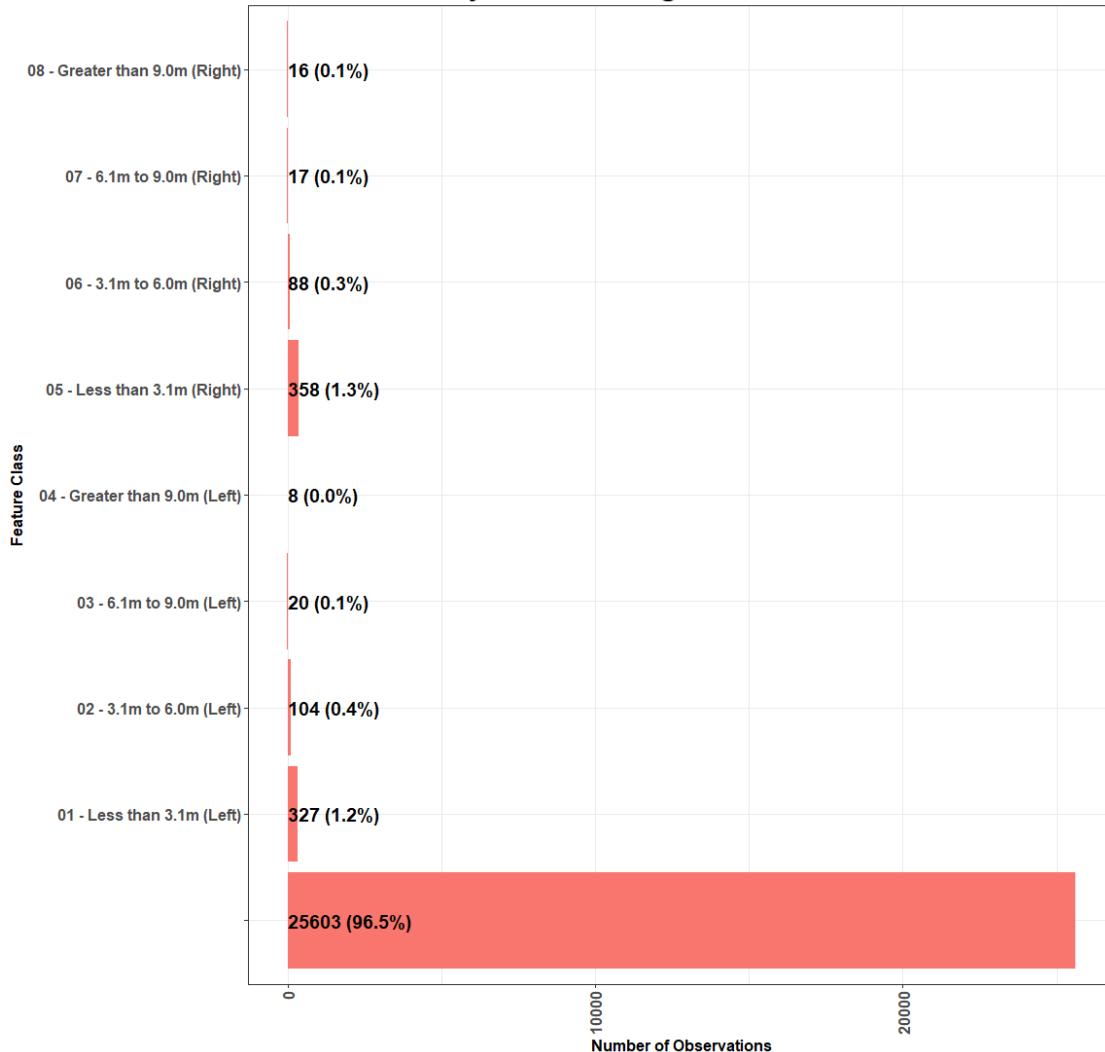
##  

## Feature Value Counter Percentage  

## -----
```

##	25603	96.4658
## 01 - Less than 3.1m (Left)	327	1.2321
## 02 - 3.1m to 6.0m (Left)	104	0.3918
## 03 - 6.1m to 9.0m (Left)	20	0.0754
## 04 - Greater than 9.0m (Left)	8	0.0301
## 05 - Less than 3.1m (Right)	358	1.3489
## 06 - 3.1m to 6.0m (Right)	88	0.3316
## 07 - 6.1m to 9.0m (Right)	17	0.0641
## 08 - Greater than 9.0m (Right)	16	0.0603

**Plot of Feature:OFFSET2
Data:All 2017-Only 2017-Homologated.csv**

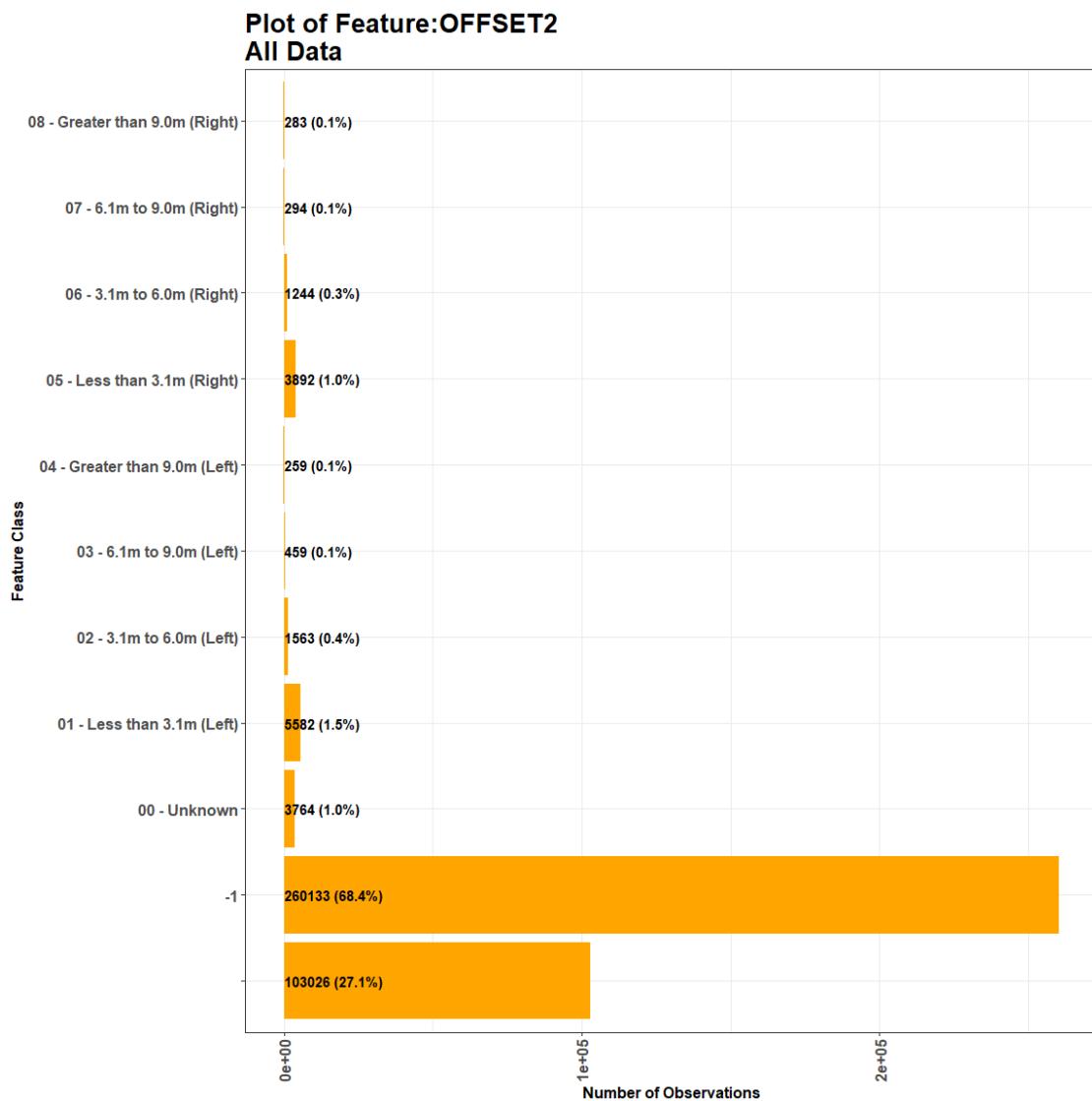


```

## 
## =====
## FINAL INFO CHECKING FEATURE:OFFSET2
## ALL DATA...
## =====

```

```
##  
## Number of Blank Values:103026  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 11
```



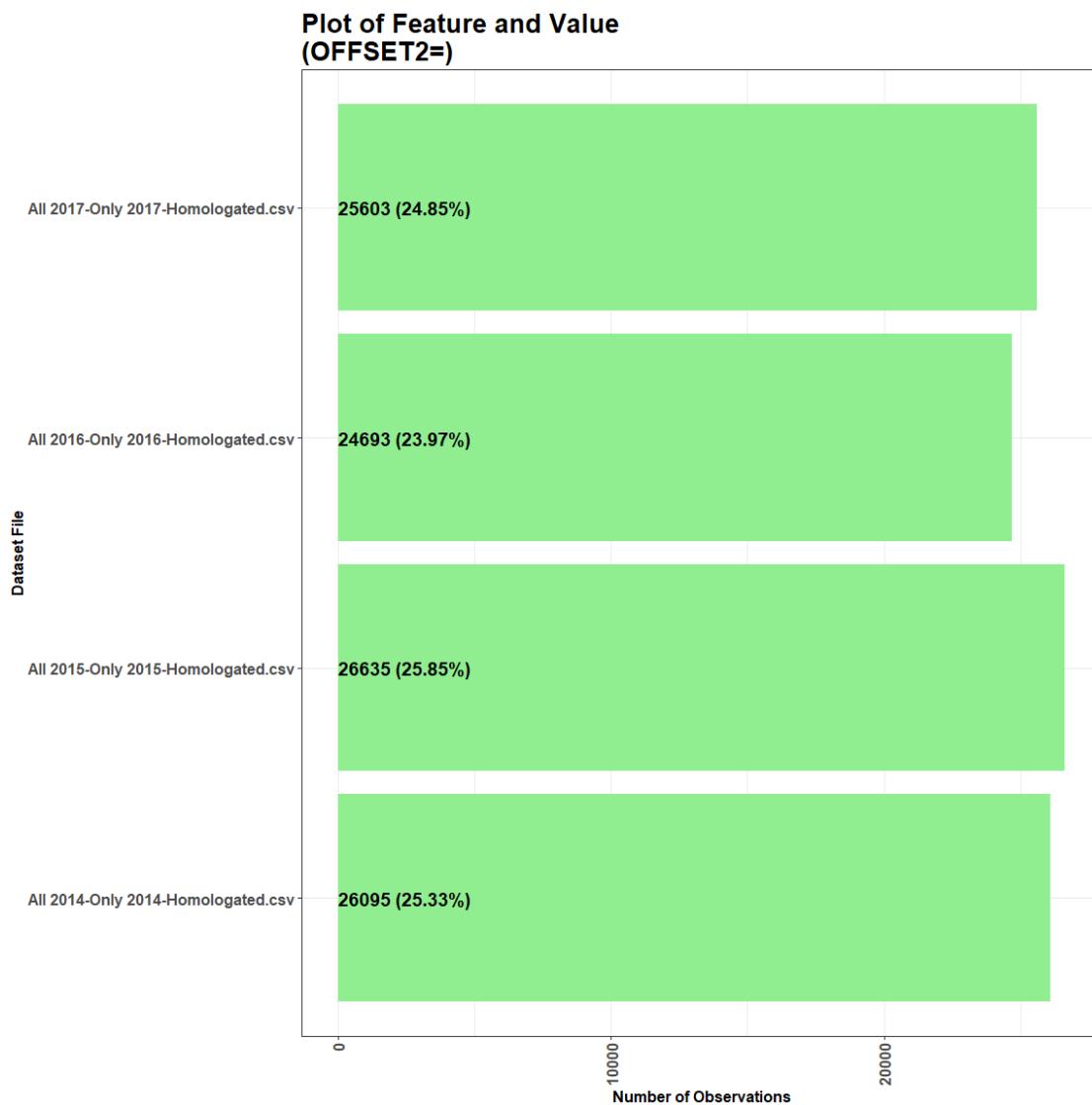
```
## [1] "TOP 100 FEATURES COUNTERS OF:OFFSET2"
```

Feature Value	Counter	Percentage
-1	260133	68.3663
00 - Unknown	3764	0.9892
01 - Less than 3.1m (Left)	5582	1.4670
02 - 3.1m to 6.0m (Left)	1563	0.4108
03 - 6.1m to 9.0m (Left)	459	0.1206
04 - Greater than 9.0m (Left)	259	0.0681
05 - Less than 3.1m (Right)	3892	1.0229
06 - 3.1m to 6.0m (Right)	1244	0.3269

07 - 6.1m to 9.0m (Right)	294	0.0773
08 - Greater than 9.0m (Right)	283	0.0744

11.1 OFFSET2 = "" (Blank)

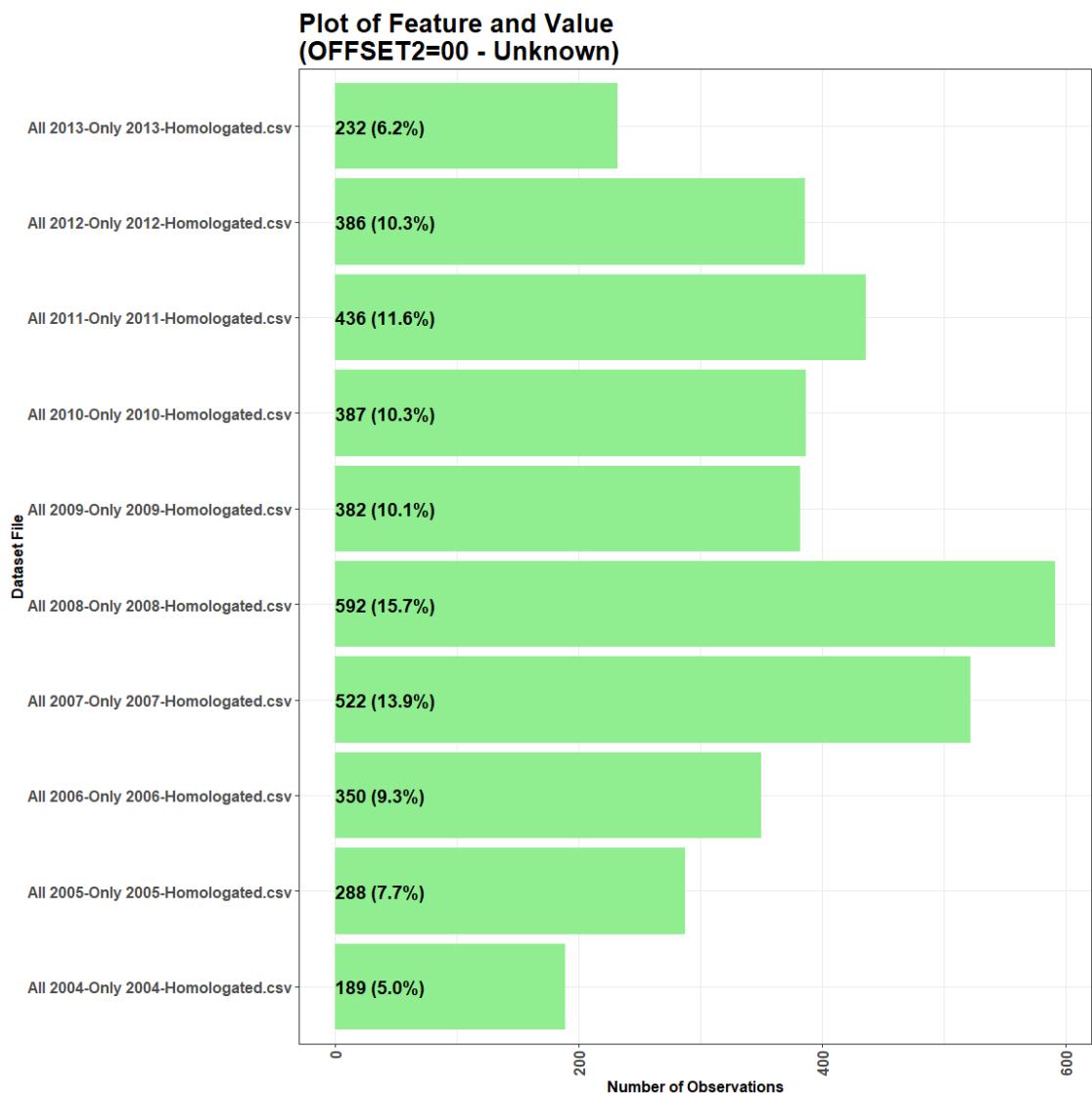
```
##  
## =====  
## CHECKING FEATURE AND VALUE (OFFSET2=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 26095 26635  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 24693 25603
```



DATASET FILE	COUNTER OF (OFFSET2=)	Percentage
All 2014-Only 2014-Homologated.csv	26095	25.33
All 2015-Only 2015-Homologated.csv	26635	25.85
All 2016-Only 2016-Homologated.csv	24693	23.97
All 2017-Only 2017-Homologated.csv	25603	24.85

11.2 OFFSET2 = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (OFFSET2=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 189 288  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 350 522  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 592 382  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 387 436  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 386 232
```

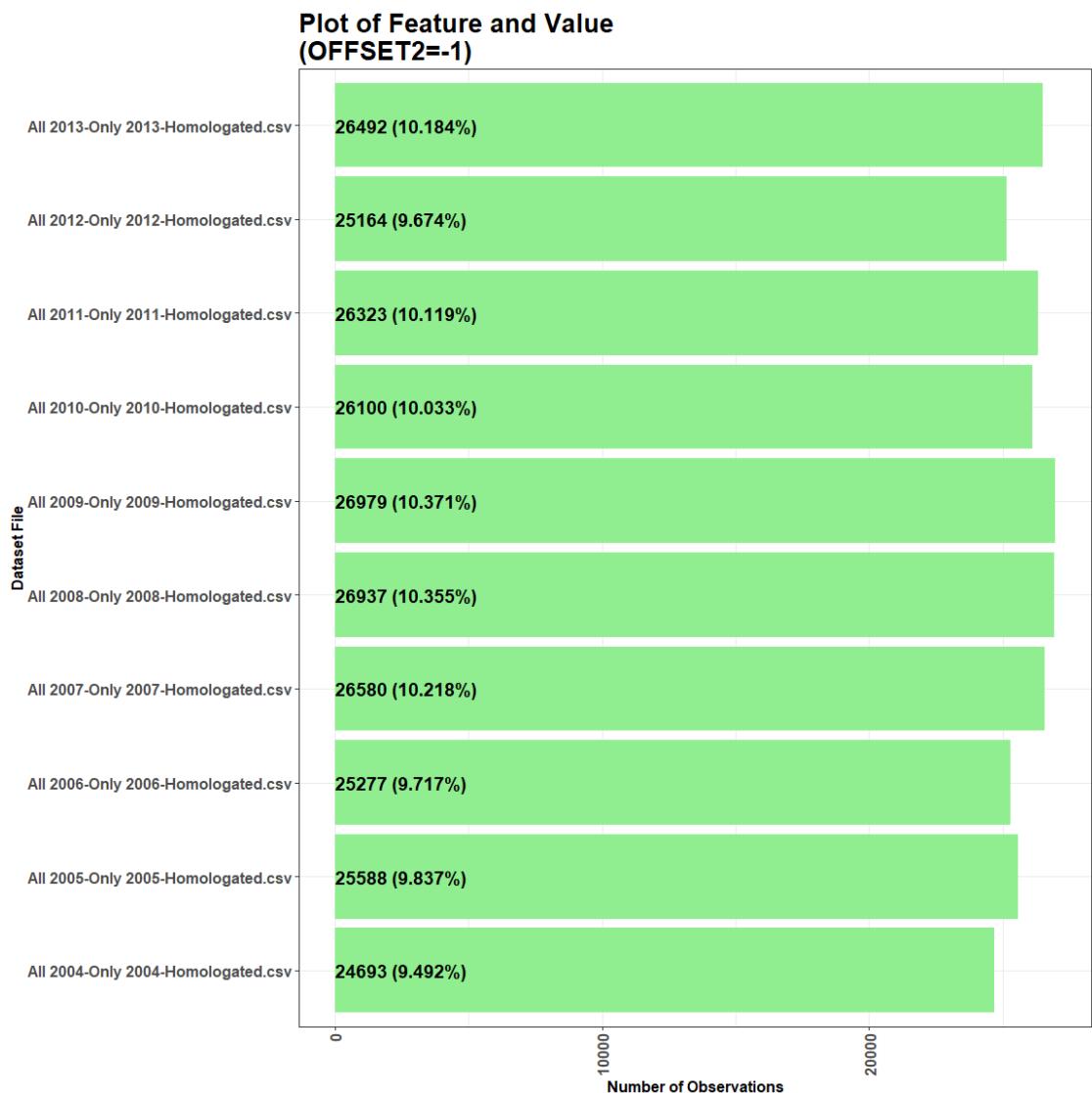


DATASET FILE	COUNTER OF (OFFSET2=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	189		5.021
All 2005-Only 2005-Homologated.csv	288		7.651
All 2006-Only 2006-Homologated.csv	350		9.299
All 2007-Only 2007-Homologated.csv	522		13.868
All 2008-Only 2008-Homologated.csv	592		15.728

All 2009-Only 2009-Homologated.csv	382	10.149
All 2010-Only 2010-Homologated.csv	387	10.282
All 2011-Only 2011-Homologated.csv	436	11.583
All 2012-Only 2012-Homologated.csv	386	10.255
All 2013-Only 2013-Homologated.csv	232	6.164

11.3 OFFSET2 = “-1”

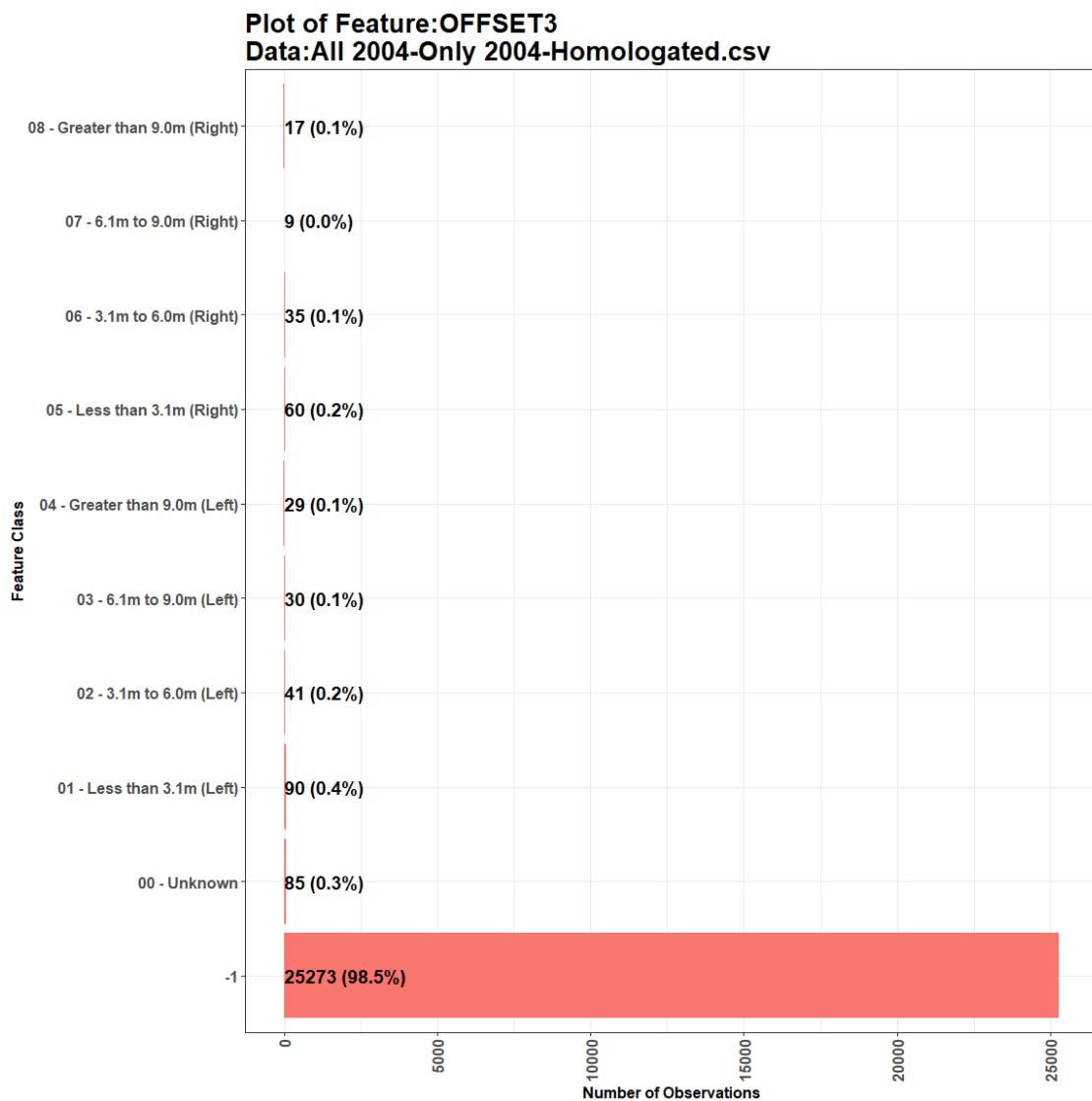
```
##  
## ======  
## CHECKING FEATURE AND VALUE (OFFSET2=-1)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 24693 25588  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 25277 26580  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 26937 26979  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 26100 26323  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 25164 26492
```



DATASET FILE	COUNTER OF (OFFSET2=-1)	Percentage
All 2004-Only 2004-Homologated.csv	24693	9.492
All 2005-Only 2005-Homologated.csv	25588	9.836
All 2006-Only 2006-Homologated.csv	25277	9.717
All 2007-Only 2007-Homologated.csv	26580	10.218
All 2008-Only 2008-Homologated.csv	26937	10.355
All 2009-Only 2009-Homologated.csv	26979	10.371
All 2010-Only 2010-Homologated.csv	26100	10.033
All 2011-Only 2011-Homologated.csv	26323	10.119
All 2012-Only 2012-Homologated.csv	25164	9.674
All 2013-Only 2013-Homologated.csv	26492	10.184

12. Offset3 (OFFSET3)

```
##
## -----
## CHECKING FEATURE:OFFSET3
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 10
##
## TOP 100 FEATURES OF OFFSET3
##
## Feature Value Counter Percentage
## -----
## -1 25273 98.4573
## 00 - Unknown 85 0.3311
## 01 - Less than 3.1m (Left) 90 0.3506
## 02 - 3.1m to 6.0m (Left) 41 0.1597
## 03 - 6.1m to 9.0m (Left) 30 0.1169
## 04 - Greater than 9.0m (Left) 29 0.1130
## 05 - Less than 3.1m (Right) 60 0.2337
## 06 - 3.1m to 6.0m (Right) 35 0.1364
## 07 - 6.1m to 9.0m (Right) 9 0.0351
## 08 - Greater than 9.0m (Right) 17 0.0662
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET3  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET3  

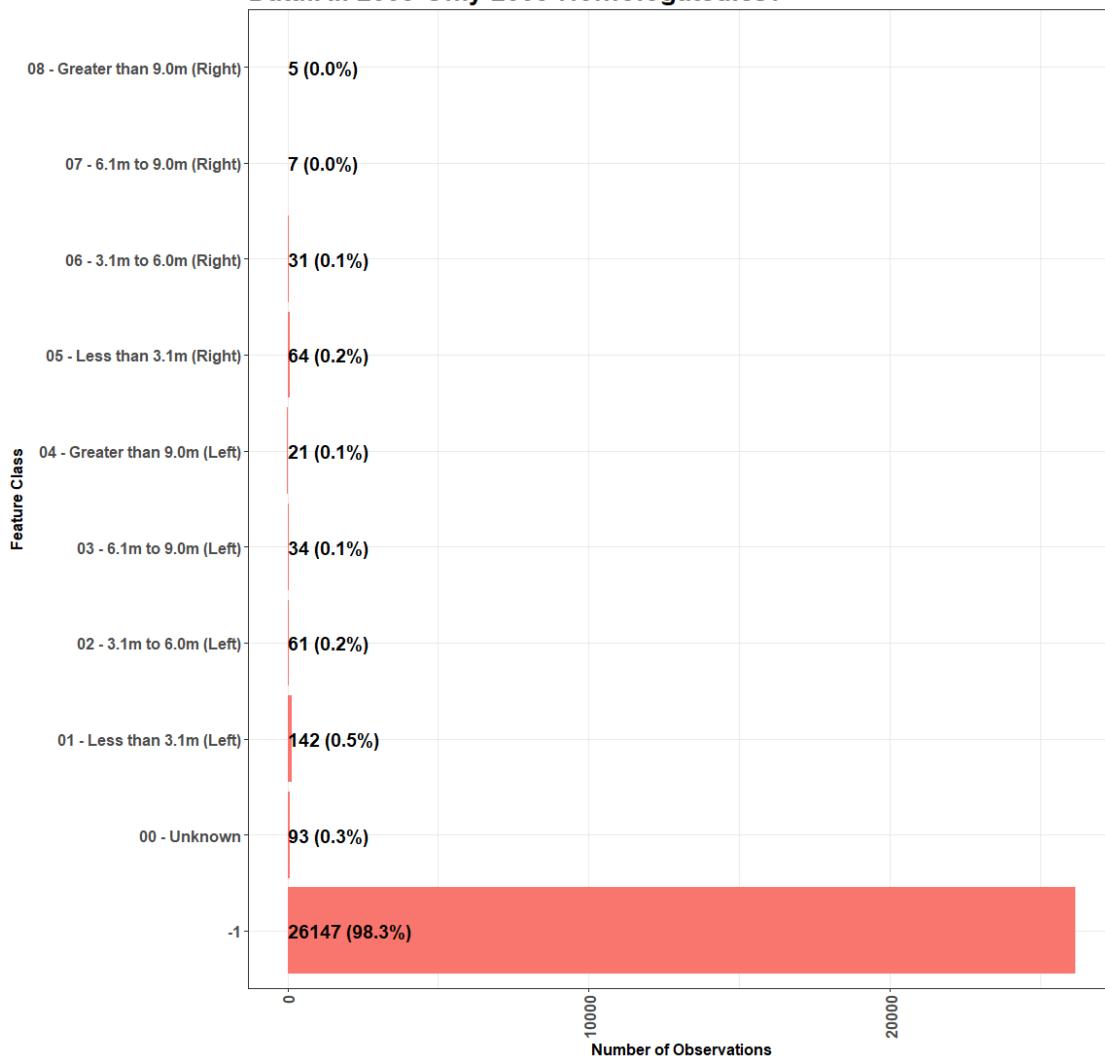
##  

## Feature Value Counter Percentage  

## -----
```

## -1	26147	98.2785
## 00 - Unknown	93	0.3496
## 01 - Less than 3.1m (Left)	142	0.5337
## 02 - 3.1m to 6.0m (Left)	61	0.2293
## 03 - 6.1m to 9.0m (Left)	34	0.1278
## 04 - Greater than 9.0m (Left)	21	0.0789
## 05 - Less than 3.1m (Right)	64	0.2406
## 06 - 3.1m to 6.0m (Right)	31	0.1165
## 07 - 6.1m to 9.0m (Right)	7	0.0263
## 08 - Greater than 9.0m (Right)	5	0.0188

**Plot of Feature:OFFSET3
Data:All 2005-Only 2005-Homologated.csv**

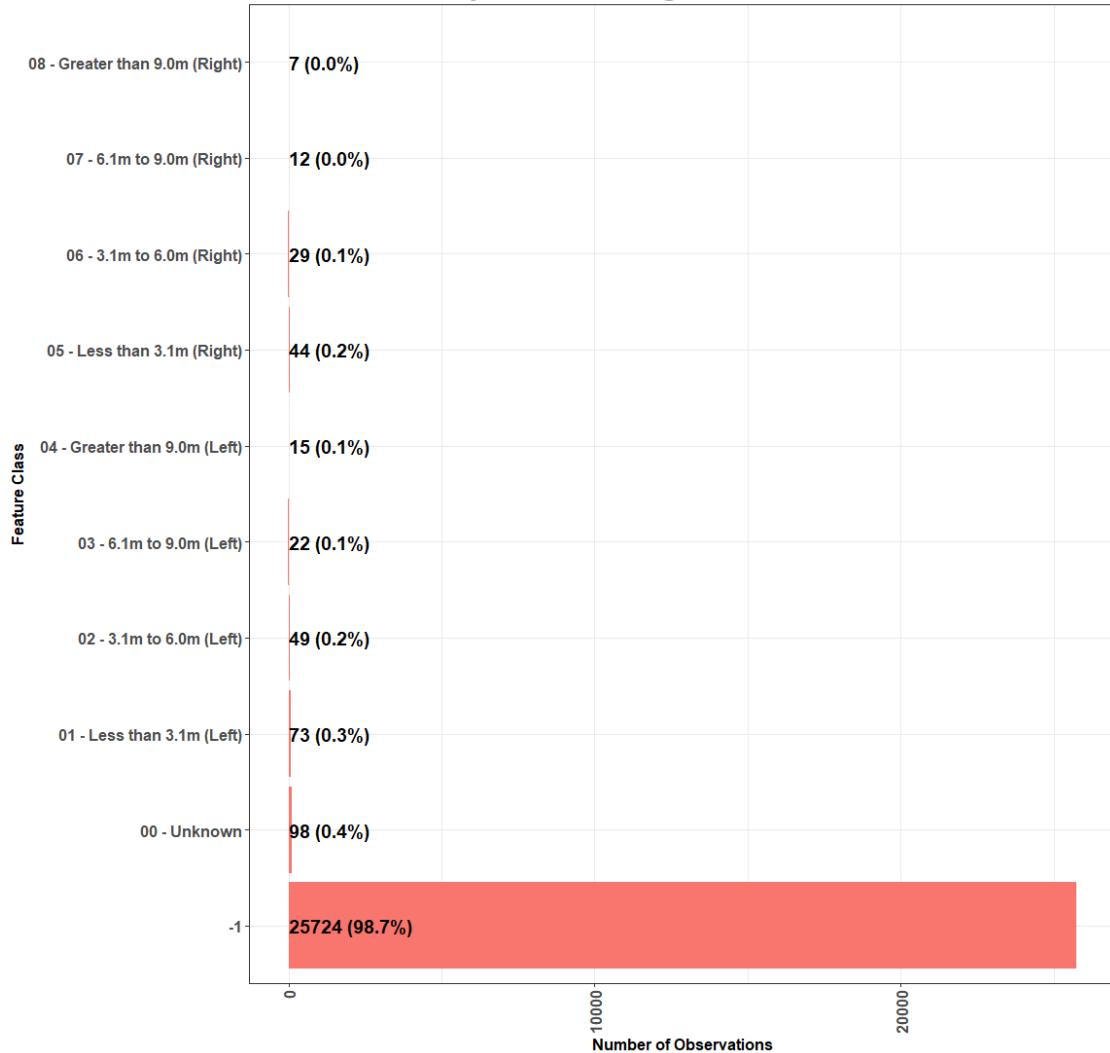


```
##
## -----
## CHECKING FEATURE:OFFSET3
## DATA:All 2006-Only 2006-Homologated.csv...
```



```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25724 98.6615  
## 00 - Unknown 98 0.3759  
## 01 - Less than 3.1m (Left) 73 0.2800  
## 02 - 3.1m to 6.0m (Left) 49 0.1879  
## 03 - 6.1m to 9.0m (Left) 22 0.0844  
## 04 - Greater than 9.0m (Left) 15 0.0575  
## 05 - Less than 3.1m (Right) 44 0.1688  
## 06 - 3.1m to 6.0m (Right) 29 0.1112  
## 07 - 6.1m to 9.0m (Right) 12 0.0460  
## 08 - Greater than 9.0m (Right) 7 0.0268
```

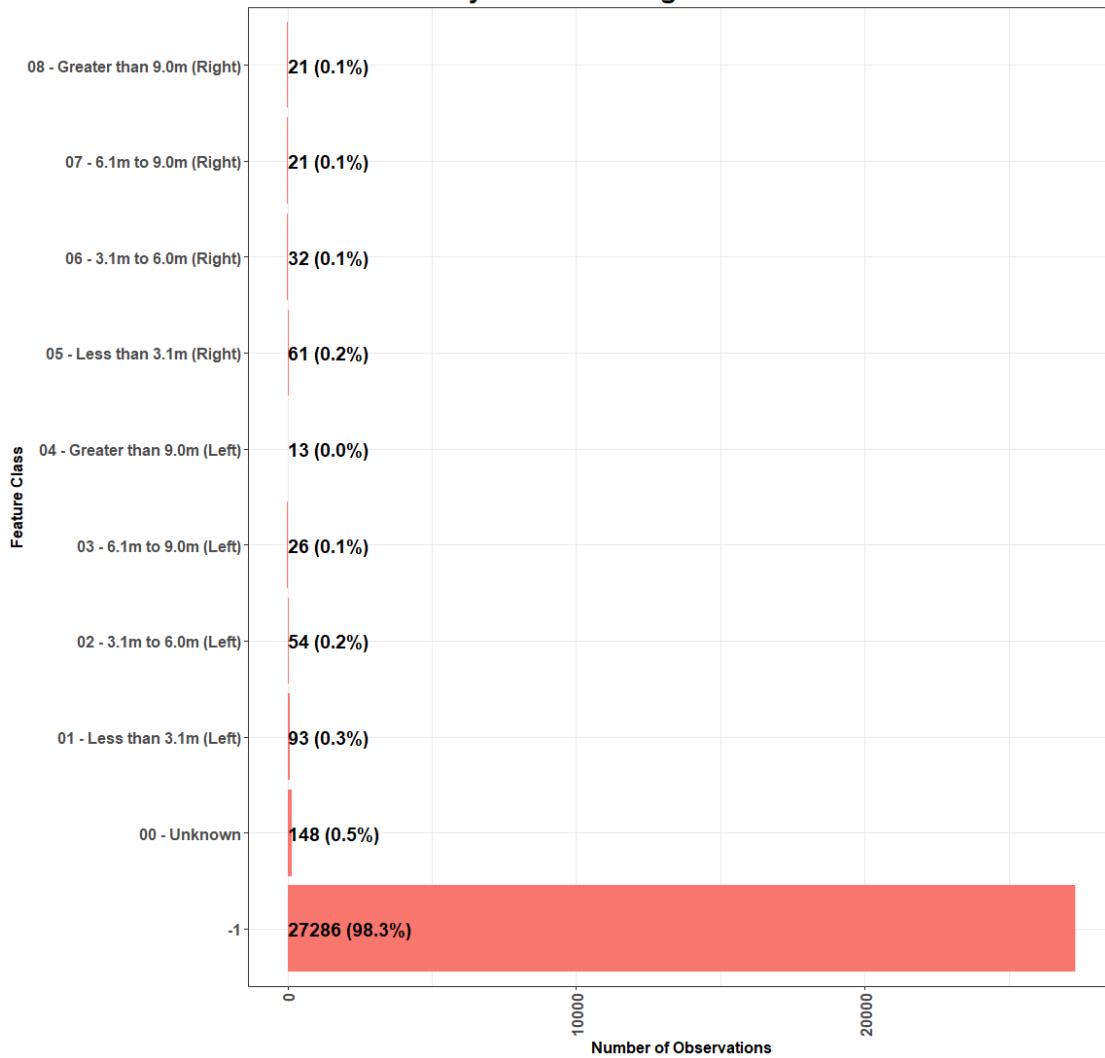
**Plot of Feature:OFFSET3
Data:All 2006-Only 2006-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:OFFSET3  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET3  
##  
## Feature Value Counter Percentage  
## -----
```

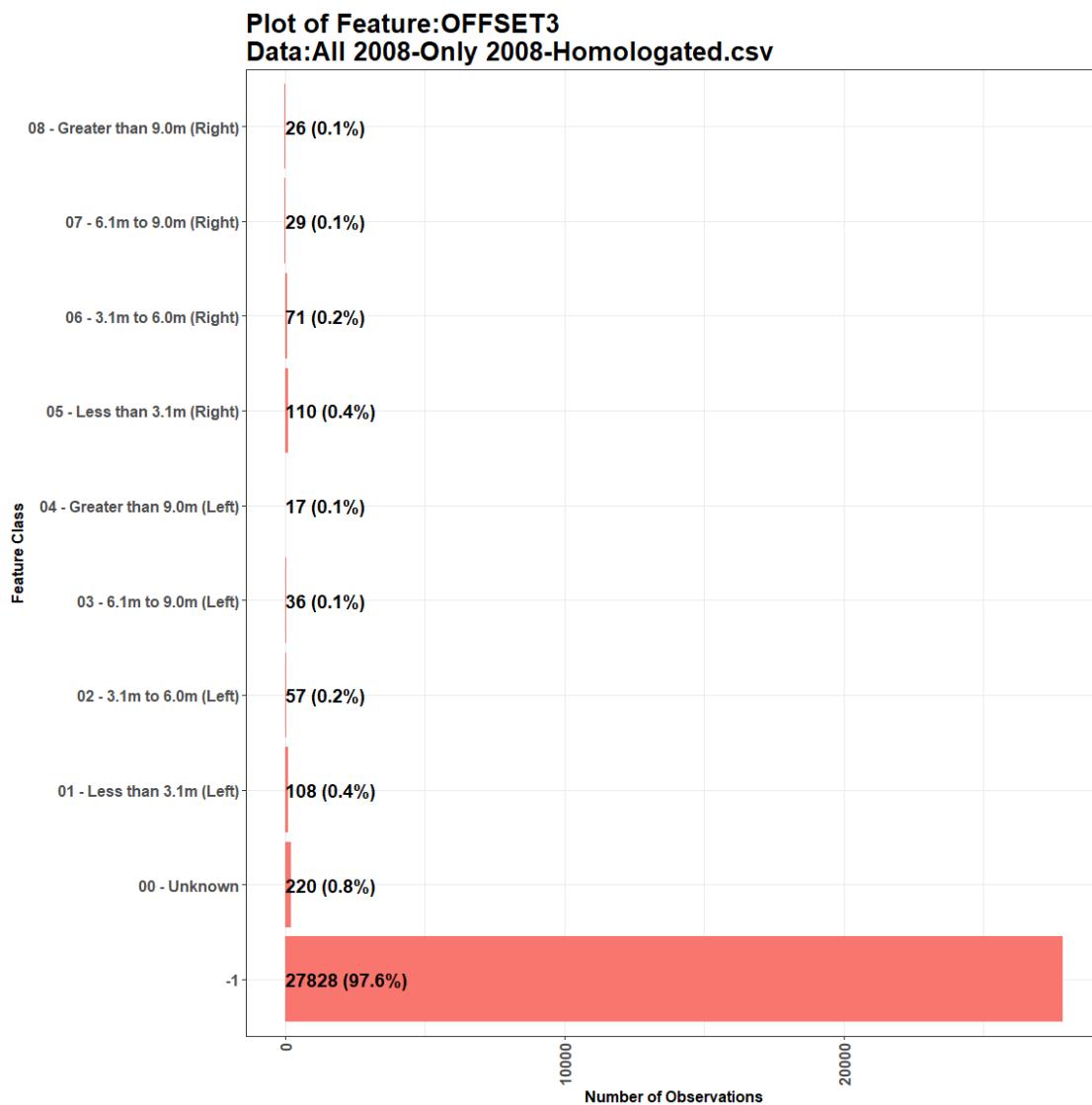
## -1	27286	98.3102
## 00 - Unknown	148	0.5332
## 01 - Less than 3.1m (Left)	93	0.3351
## 02 - 3.1m to 6.0m (Left)	54	0.1946
## 03 - 6.1m to 9.0m (Left)	26	0.0937
## 04 - Greater than 9.0m (Left)	13	0.0468
## 05 - Less than 3.1m (Right)	61	0.2198
## 06 - 3.1m to 6.0m (Right)	32	0.1153
## 07 - 6.1m to 9.0m (Right)	21	0.0757
## 08 - Greater than 9.0m (Right)	21	0.0757

**Plot of Feature:OFFSET3
Data:All 2007-Only 2007-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET3
## DATA:All 2008-Only 2008-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 27828 97.6353  
## 00 - Unknown 220 0.7719  
## 01 - Less than 3.1m (Left) 108 0.3789  
## 02 - 3.1m to 6.0m (Left) 57 0.2000  
## 03 - 6.1m to 9.0m (Left) 36 0.1263  
## 04 - Greater than 9.0m (Left) 17 0.0596  
## 05 - Less than 3.1m (Right) 110 0.3859  
## 06 - 3.1m to 6.0m (Right) 71 0.2491  
## 07 - 6.1m to 9.0m (Right) 29 0.1017  
## 08 - Greater than 9.0m (Right) 26 0.0912
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET3  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET3  

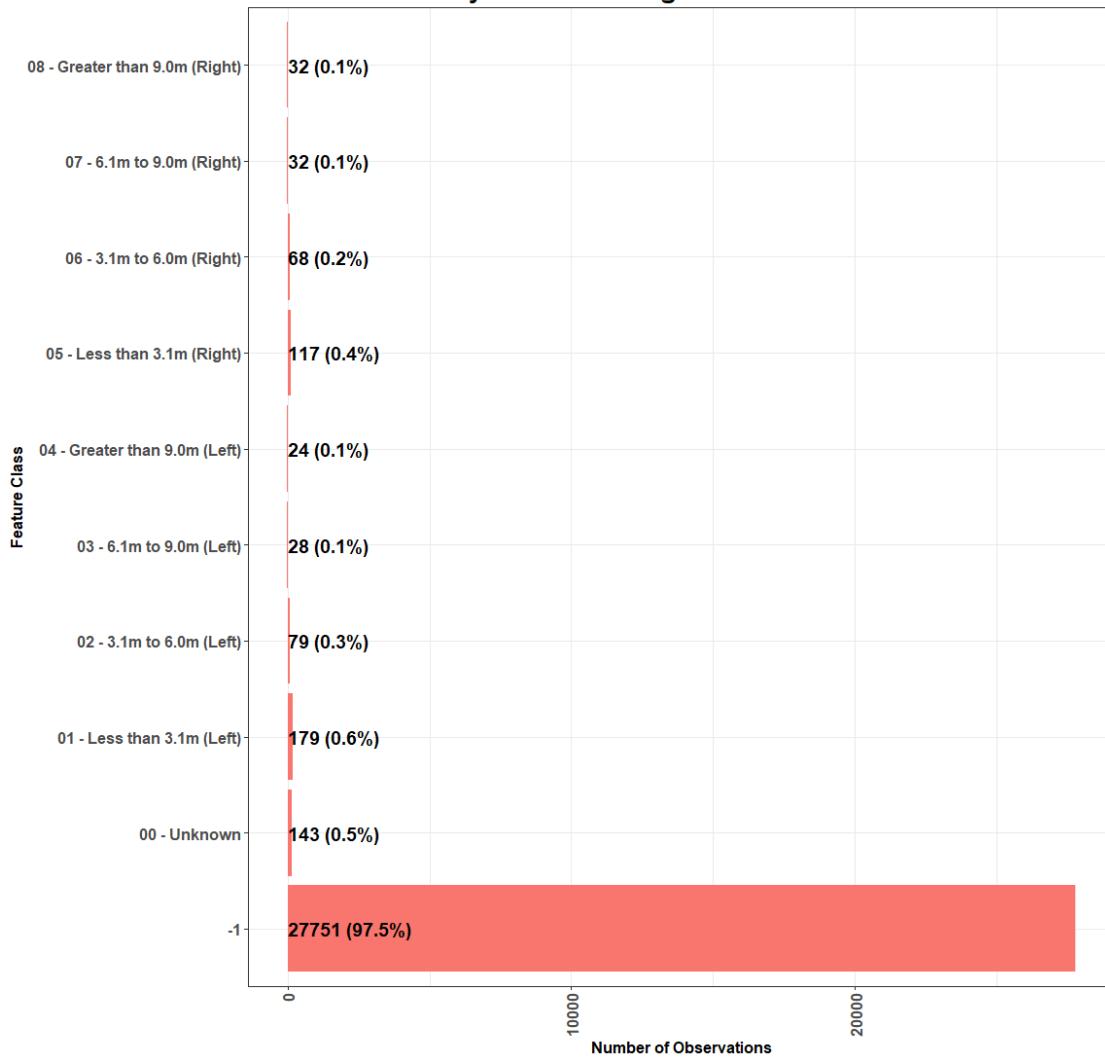
##  

## Feature Value Counter Percentage  

## -----
```

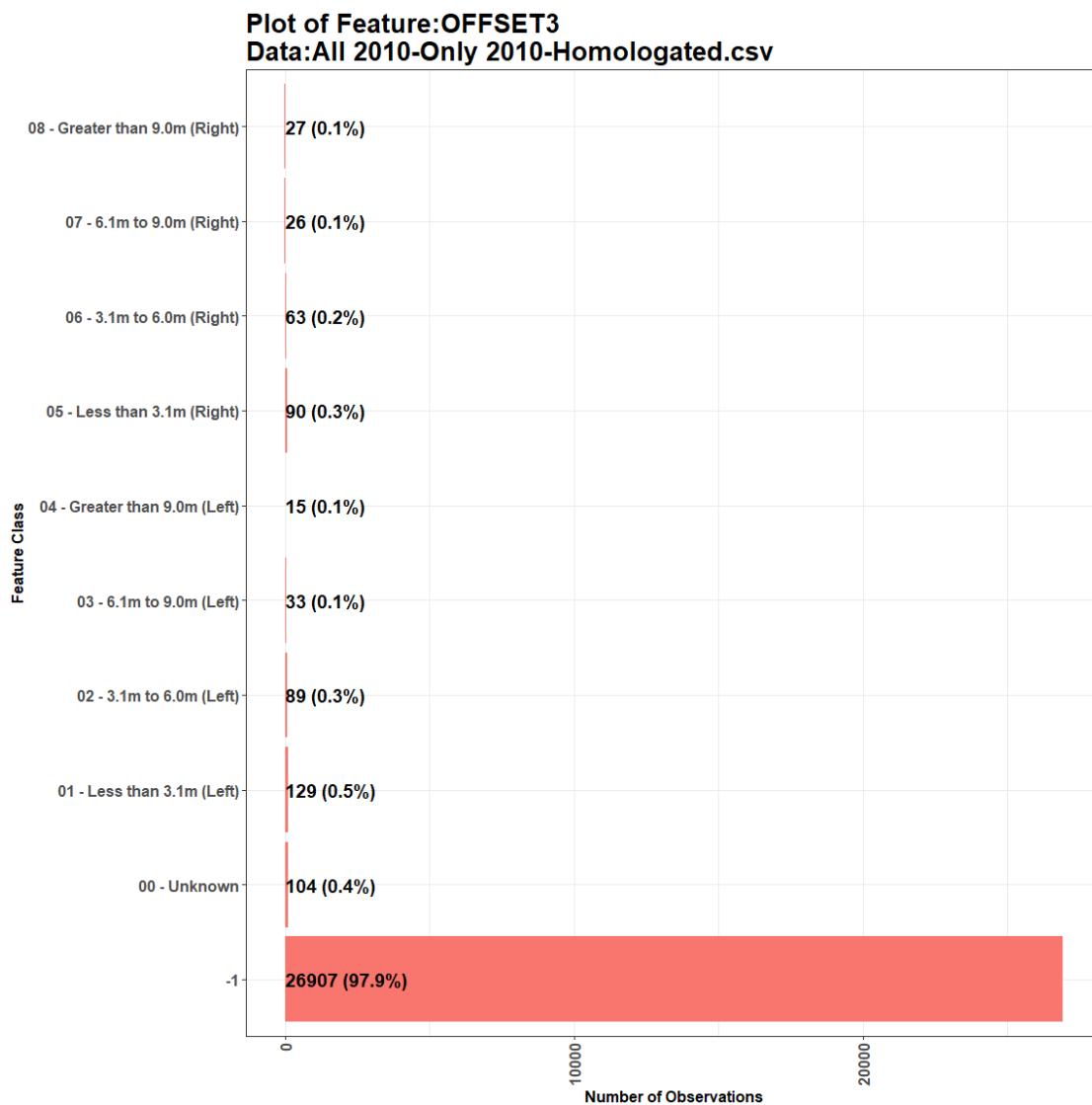
## -1	27751	97.5328
## 00 - Unknown	143	0.5026
## 01 - Less than 3.1m (Left)	179	0.6291
## 02 - 3.1m to 6.0m (Left)	79	0.2777
## 03 - 6.1m to 9.0m (Left)	28	0.0984
## 04 - Greater than 9.0m (Left)	24	0.0843
## 05 - Less than 3.1m (Right)	117	0.4112
## 06 - 3.1m to 6.0m (Right)	68	0.2390
## 07 - 6.1m to 9.0m (Right)	32	0.1125
## 08 - Greater than 9.0m (Right)	32	0.1125

**Plot of Feature:OFFSET3
Data:All 2009-Only 2009-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET3
## DATA:All 2010-Only 2010-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26907 97.9042  
## 00 - Unknown 104 0.3784  
## 01 - Less than 3.1m (Left) 129 0.4694  
## 02 - 3.1m to 6.0m (Left) 89 0.3238  
## 03 - 6.1m to 9.0m (Left) 33 0.1201  
## 04 - Greater than 9.0m (Left) 15 0.0546  
## 05 - Less than 3.1m (Right) 90 0.3275  
## 06 - 3.1m to 6.0m (Right) 63 0.2292  
## 07 - 6.1m to 9.0m (Right) 26 0.0946  
## 08 - Greater than 9.0m (Right) 27 0.0982
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET3  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET3  

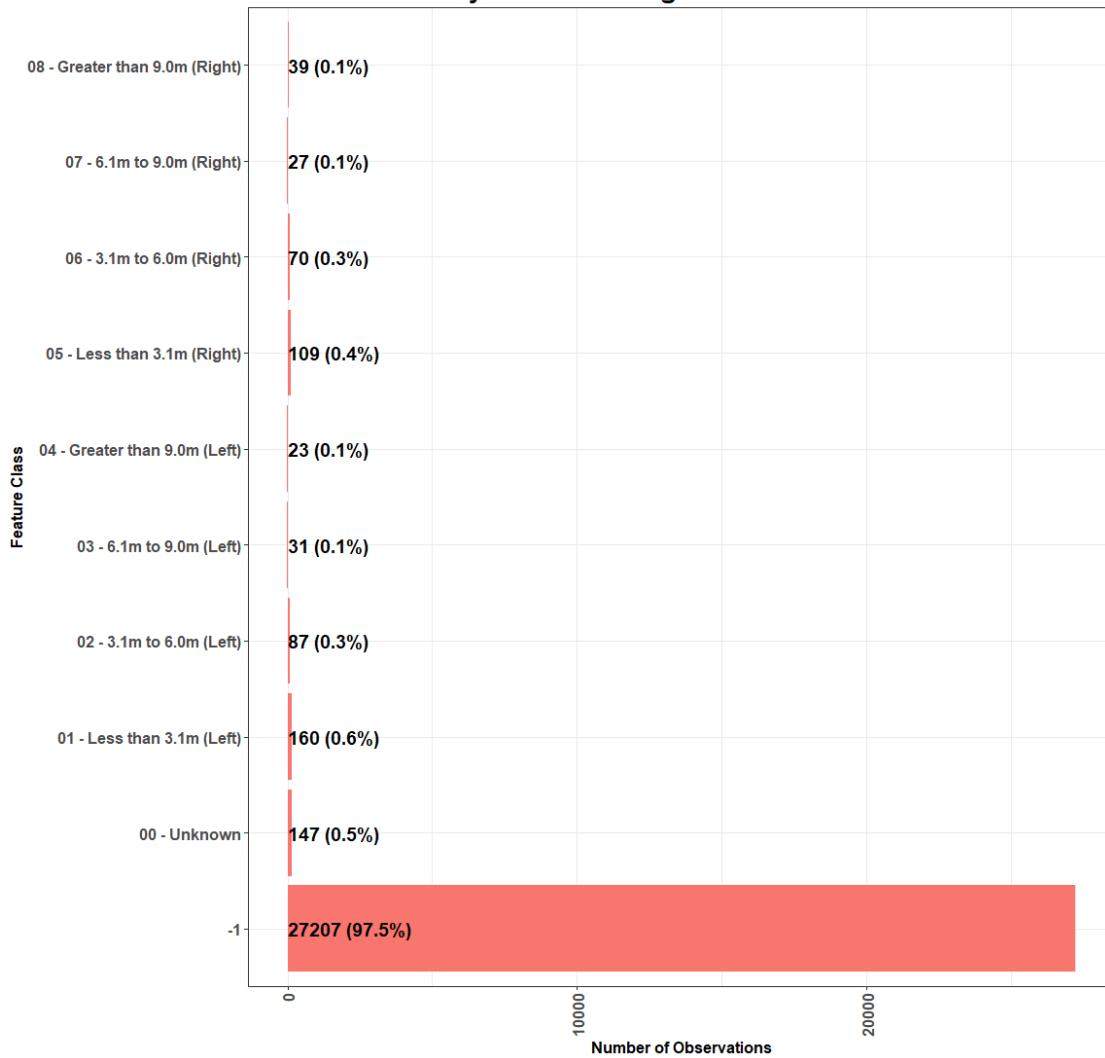
##  

## Feature Value Counter Percentage  

## -----
```

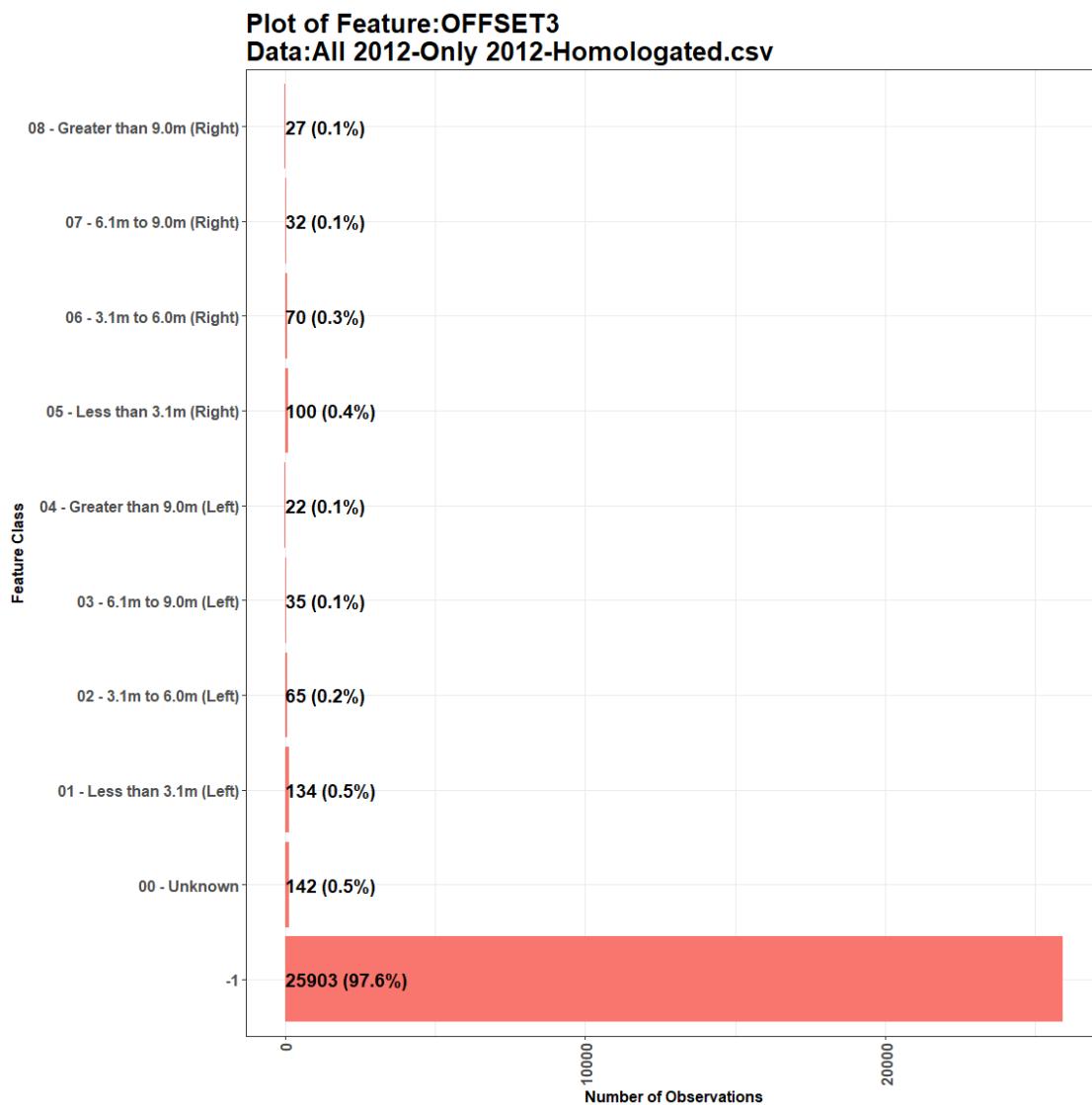
## -1	27207	97.5161
## 00 - Unknown	147	0.5269
## 01 - Less than 3.1m (Left)	160	0.5735
## 02 - 3.1m to 6.0m (Left)	87	0.3118
## 03 - 6.1m to 9.0m (Left)	31	0.1111
## 04 - Greater than 9.0m (Left)	23	0.0824
## 05 - Less than 3.1m (Right)	109	0.3907
## 06 - 3.1m to 6.0m (Right)	70	0.2509
## 07 - 6.1m to 9.0m (Right)	27	0.0968
## 08 - Greater than 9.0m (Right)	39	0.1398

**Plot of Feature:OFFSET3
Data:All 2011-Only 2011-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET3
## DATA:All 2012-Only 2012-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF OFFSET3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25903 97.6366  
## 00 - Unknown 142 0.5352  
## 01 - Less than 3.1m (Left) 134 0.5051  
## 02 - 3.1m to 6.0m (Left) 65 0.2450  
## 03 - 6.1m to 9.0m (Left) 35 0.1319  
## 04 - Greater than 9.0m (Left) 22 0.0829  
## 05 - Less than 3.1m (Right) 100 0.3769  
## 06 - 3.1m to 6.0m (Right) 70 0.2639  
## 07 - 6.1m to 9.0m (Right) 32 0.1206  
## 08 - Greater than 9.0m (Right) 27 0.1018
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET3  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF OFFSET3  

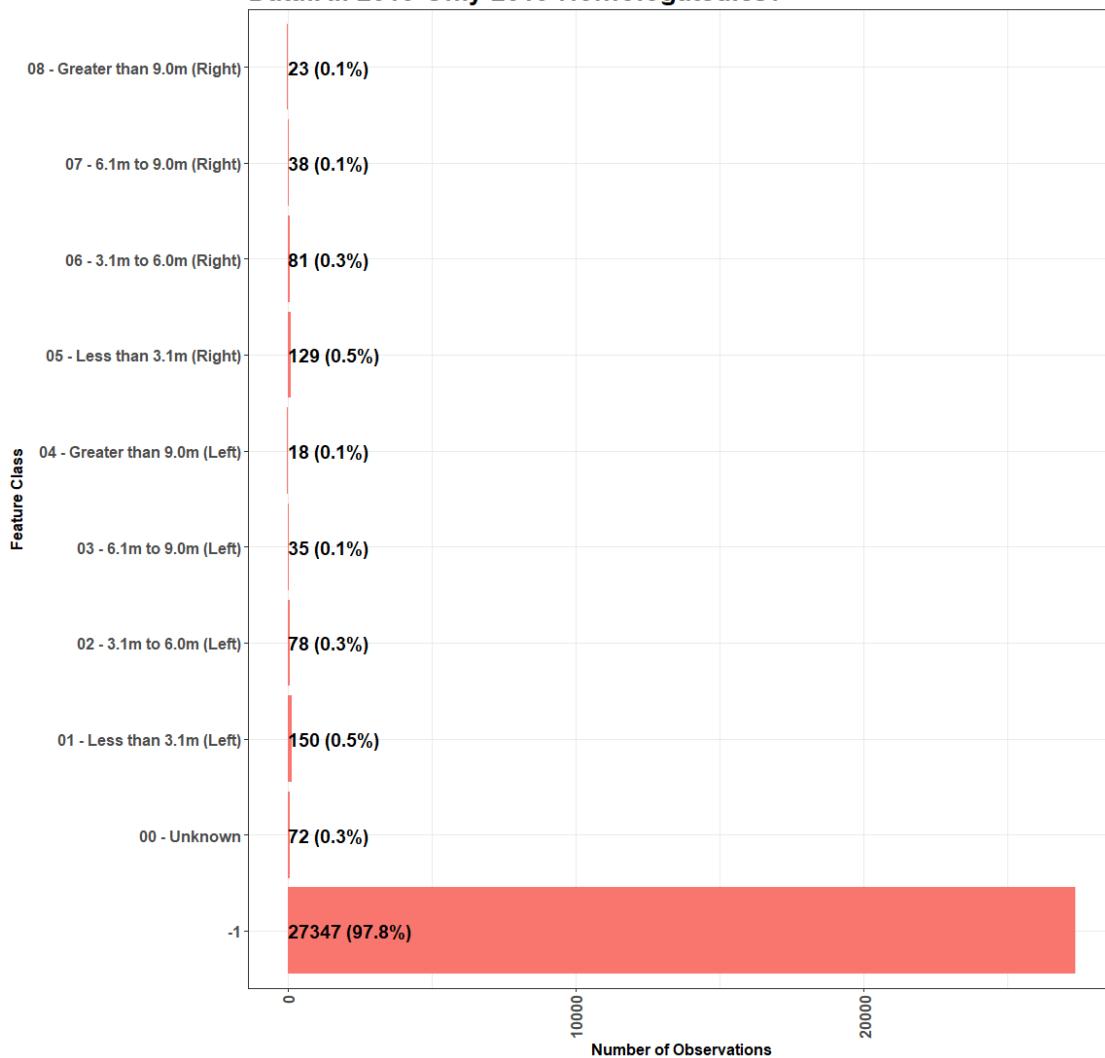
##  

## Feature Value Counter Percentage  

## -----
```

## -1	27347	97.7691
## 00 - Unknown	72	0.2574
## 01 - Less than 3.1m (Left)	150	0.5363
## 02 - 3.1m to 6.0m (Left)	78	0.2789
## 03 - 6.1m to 9.0m (Left)	35	0.1251
## 04 - Greater than 9.0m (Left)	18	0.0644
## 05 - Less than 3.1m (Right)	129	0.4612
## 06 - 3.1m to 6.0m (Right)	81	0.2896
## 07 - 6.1m to 9.0m (Right)	38	0.1359
## 08 - Greater than 9.0m (Right)	23	0.0822

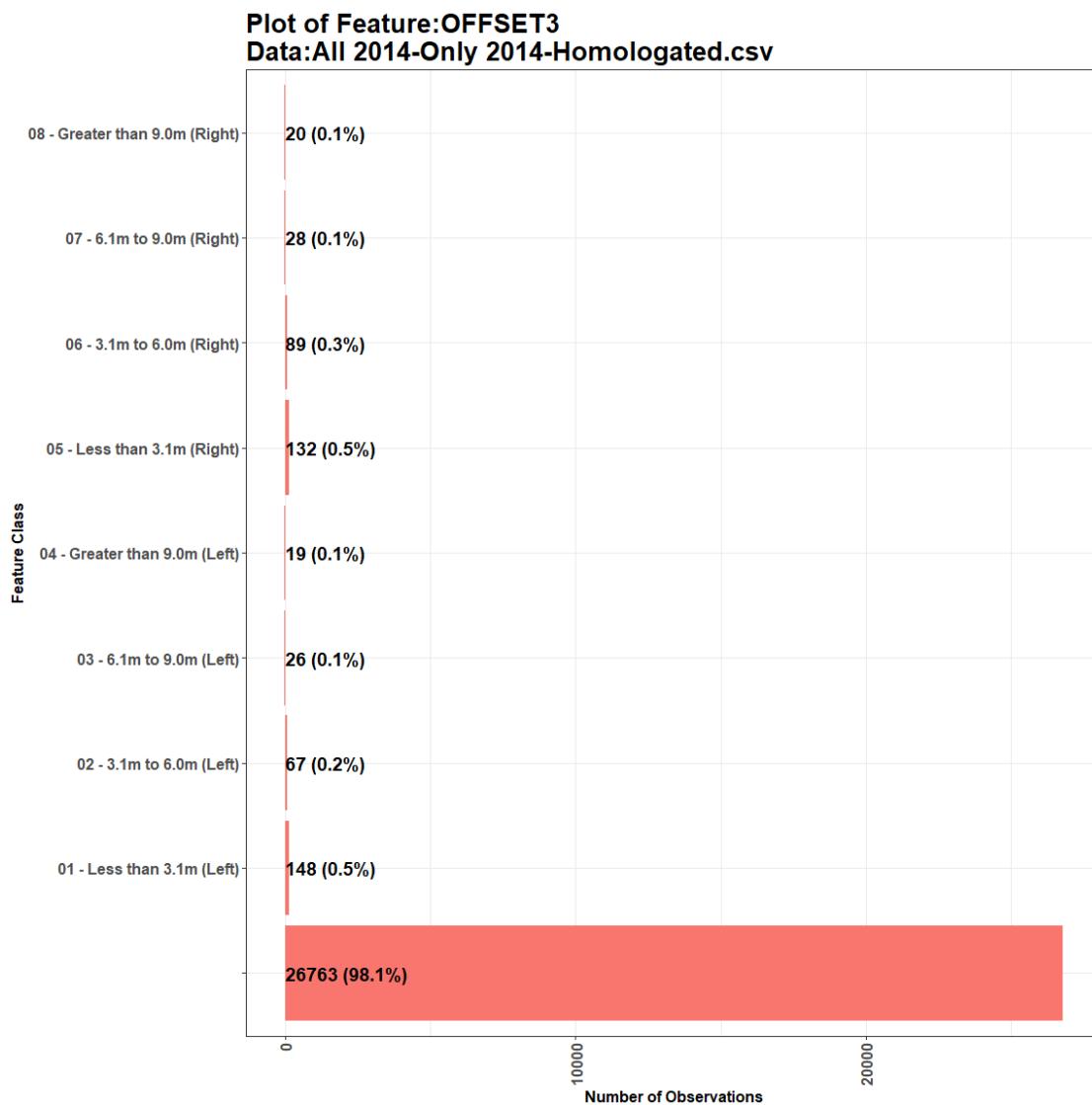
**Plot of Feature:OFFSET3
Data:All 2013-Only 2013-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:OFFSET3
## DATA:All 2014-Only 2014-Homologated.csv...
```



```
##  
## Number of Blank Values: 26763  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 9  
##  
## TOP 100 FEATURES OF OFFSET3  
##  
## Feature Value Counter Percentage  
## -----  
## 26763 98.0617  
## 01 - Less than 3.1m (Left) 148 0.5423  
## 02 - 3.1m to 6.0m (Left) 67 0.2455  
## 03 - 6.1m to 9.0m (Left) 26 0.0953  
## 04 - Greater than 9.0m (Left) 19 0.0696  
## 05 - Less than 3.1m (Right) 132 0.4837  
## 06 - 3.1m to 6.0m (Right) 89 0.3261  
## 07 - 6.1m to 9.0m (Right) 28 0.1026  
## 08 - Greater than 9.0m (Right) 20 0.0733
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET3  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:27369  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET3  

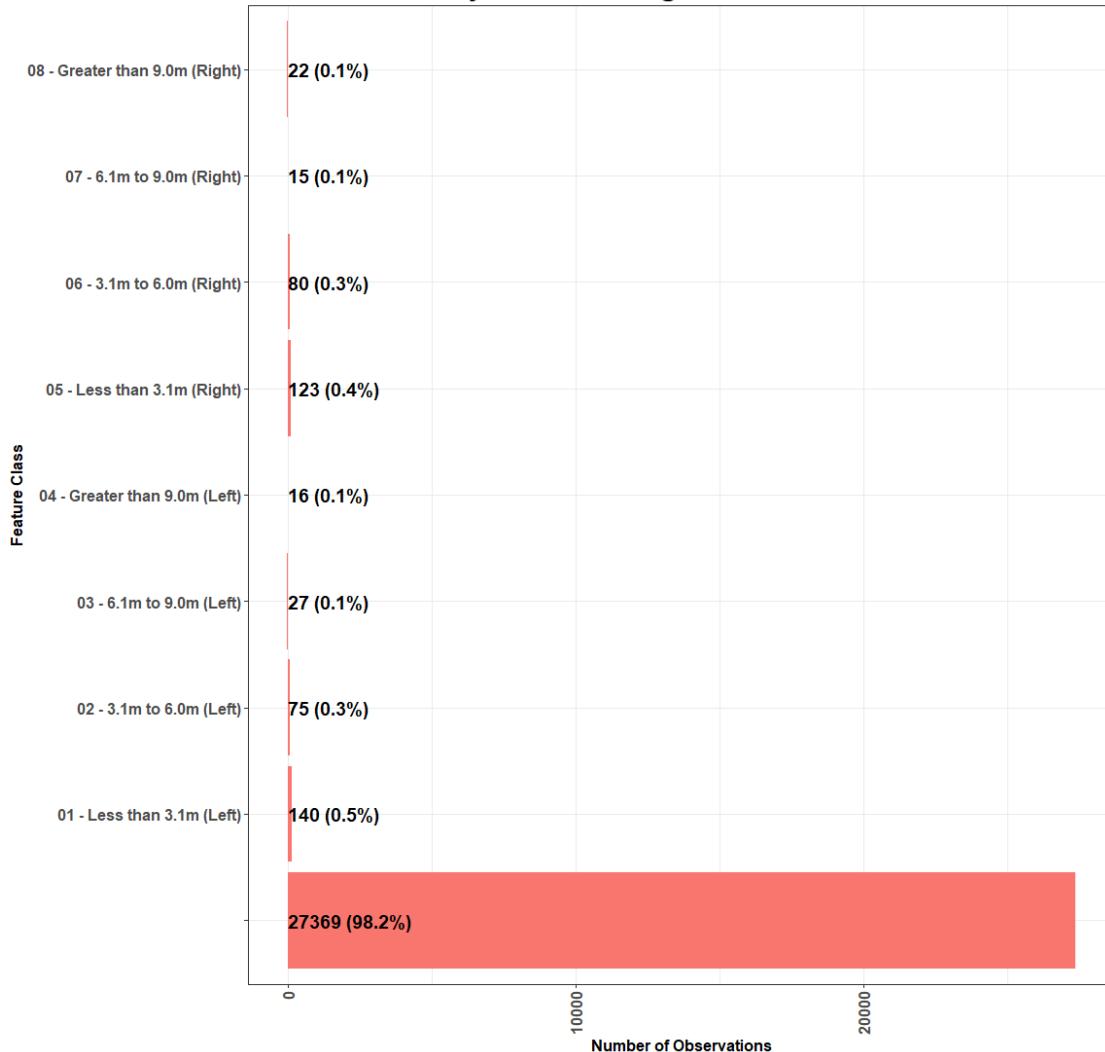
##  

## Feature Value Counter Percentage  

## -----
```

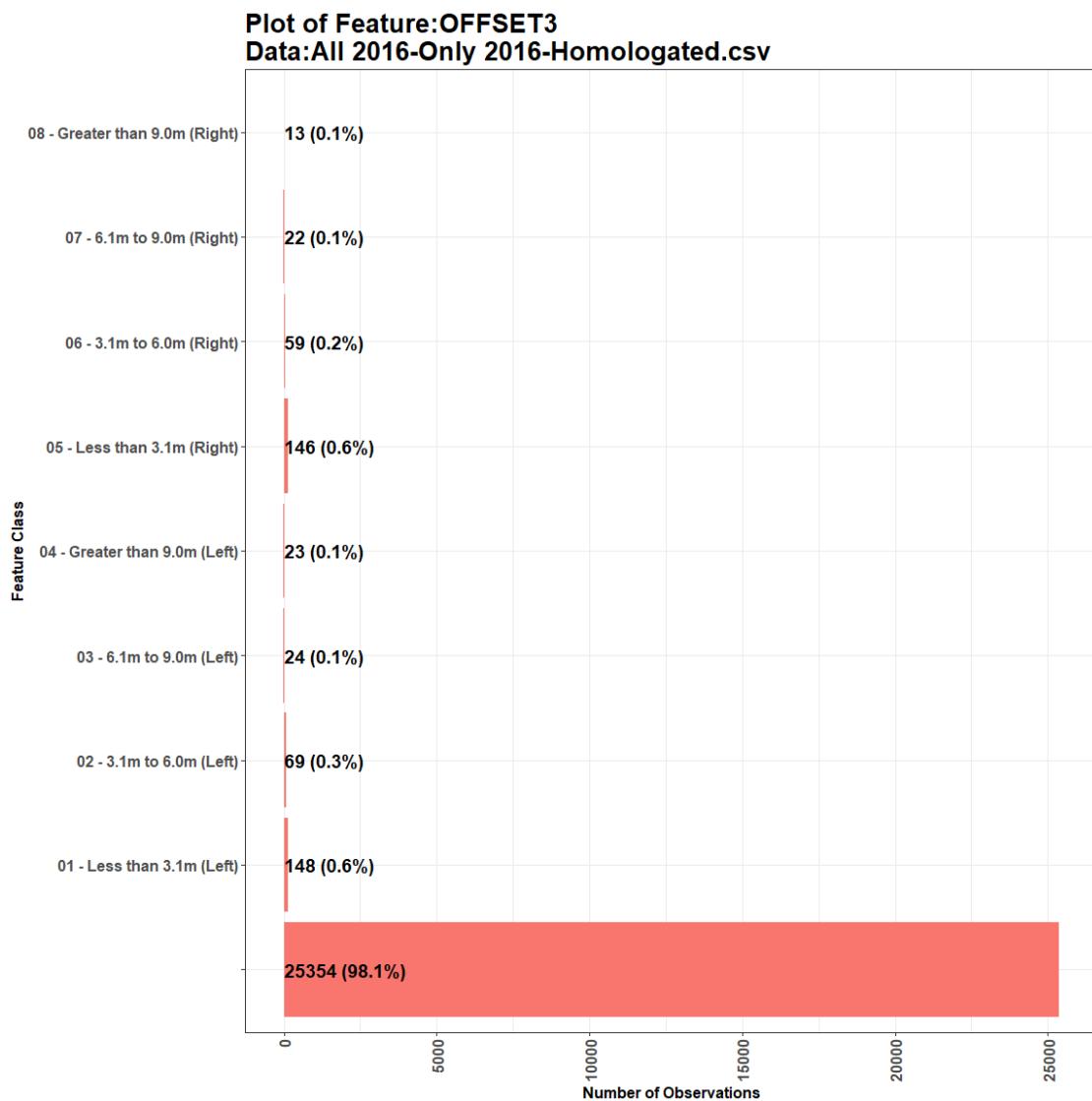
```
##                                     27369   98.2129
## 01 - Less than 3.1m (Left)      140    0.5024
## 02 - 3.1m to 6.0m (Left)        75    0.2691
## 03 - 6.1m to 9.0m (Left)        27    0.0969
## 04 - Greater than 9.0m (Left)   16    0.0574
## 05 - Less than 3.1m (Right)     123    0.4414
## 06 - 3.1m to 6.0m (Right)       80    0.2871
## 07 - 6.1m to 9.0m (Right)       15    0.0538
## 08 - Greater than 9.0m (Right)  22    0.0789
```

**Plot of Feature:OFFSET3
Data:All 2015-Only 2015-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:OFFSET3  
## DATA:All 2016-Only 2016-Homologated.csv...  
##
```

```
## Number of Blank Values:25354
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF OFFSET3
##
## Feature Value Counter Percentage
## -----
## 25354 98.0509
## 01 - Less than 3.1m (Left) 148 0.5724
## 02 - 3.1m to 6.0m (Left) 69 0.2668
## 03 - 6.1m to 9.0m (Left) 24 0.0928
## 04 - Greater than 9.0m (Left) 23 0.0889
## 05 - Less than 3.1m (Right) 146 0.5646
## 06 - 3.1m to 6.0m (Right) 59 0.2282
## 07 - 6.1m to 9.0m (Right) 22 0.0851
## 08 - Greater than 9.0m (Right) 13 0.0503
```



```
##  

## -----  

## CHECKING FEATURE:OFFSET3  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:26167  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF OFFSET3  

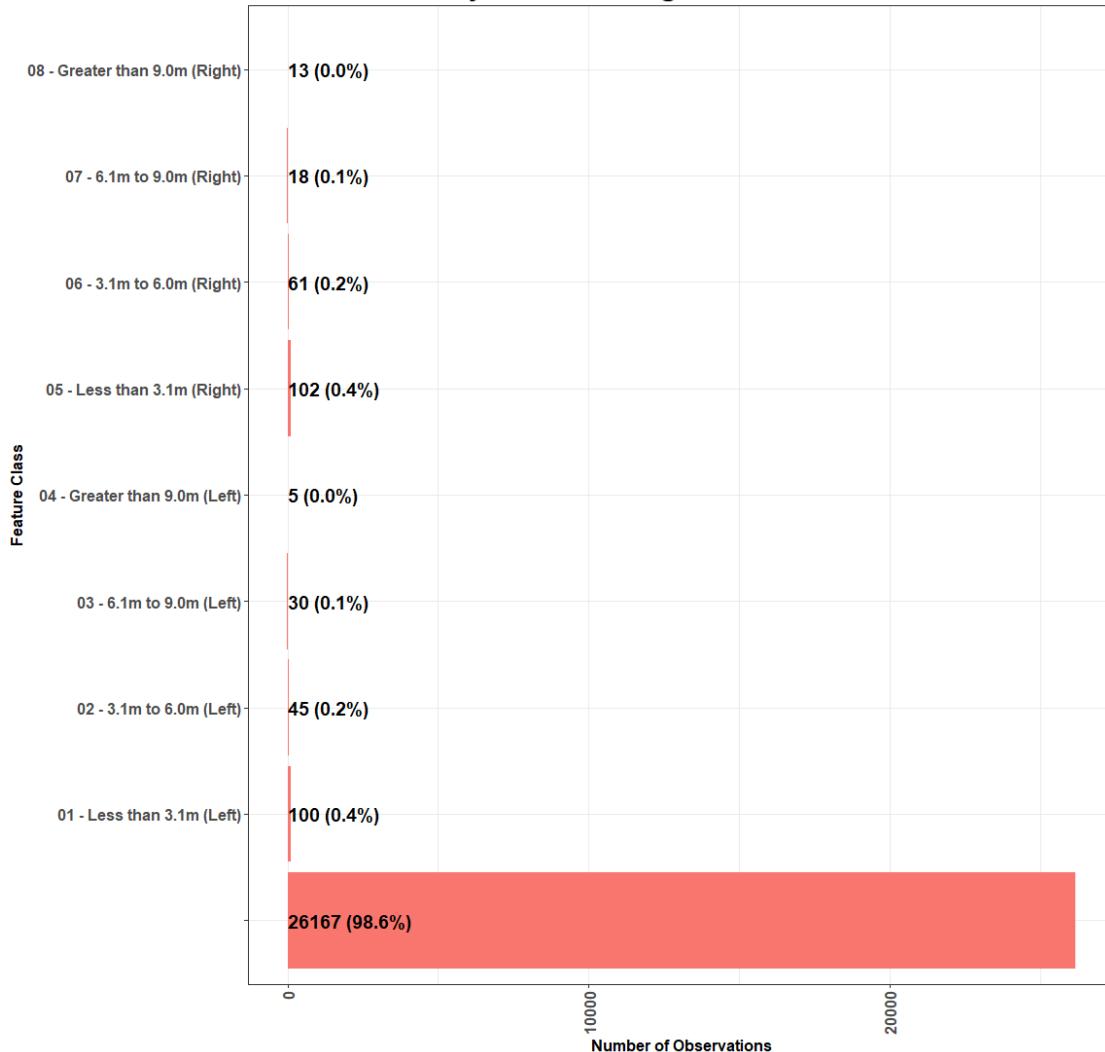
##  

## Feature Value Counter Percentage  

## -----
```

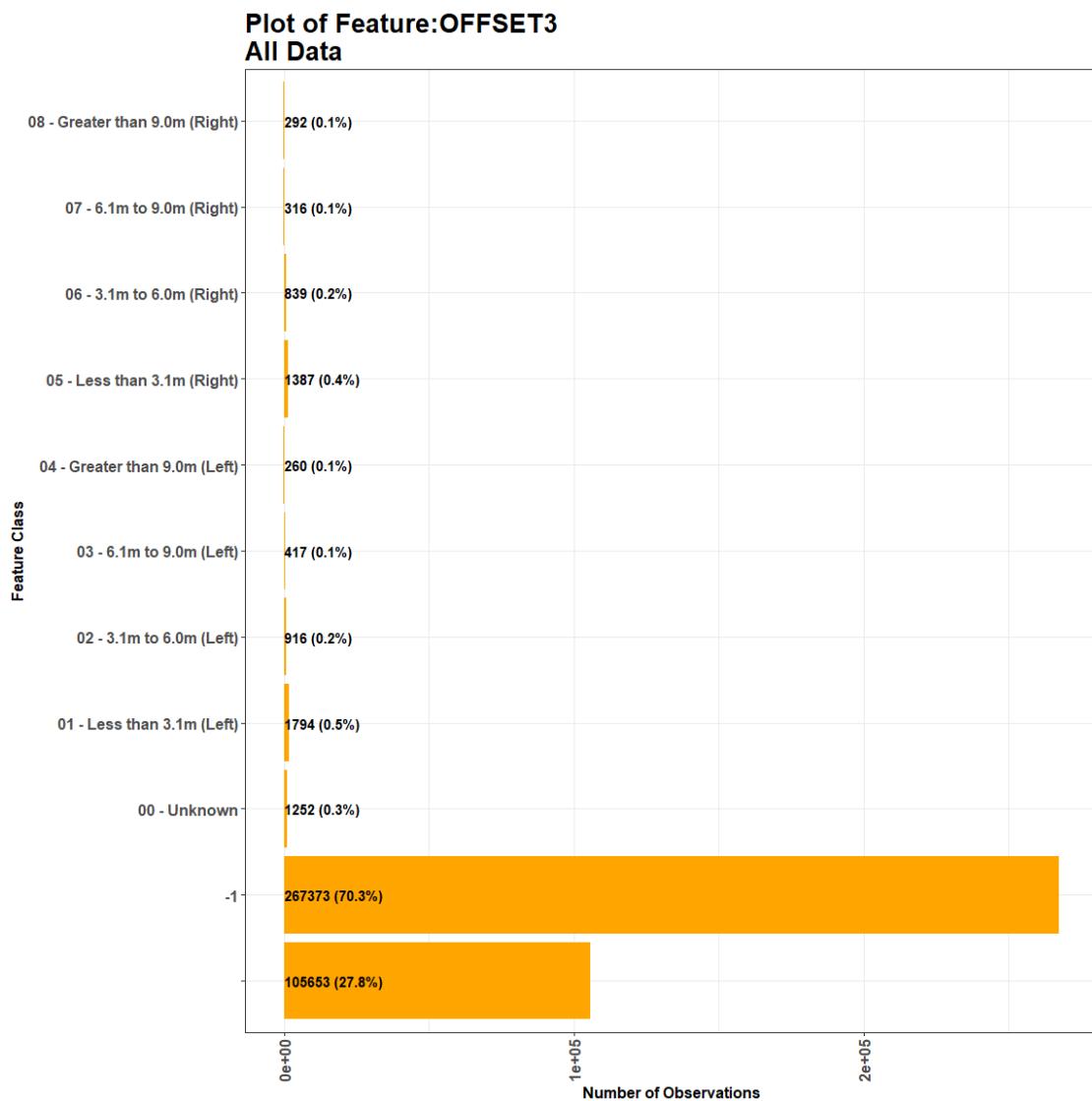
##	26167	98.5909
## 01 - Less than 3.1m (Left)	100	0.3768
## 02 - 3.1m to 6.0m (Left)	45	0.1695
## 03 - 6.1m to 9.0m (Left)	30	0.1130
## 04 - Greater than 9.0m (Left)	5	0.0188
## 05 - Less than 3.1m (Right)	102	0.3843
## 06 - 3.1m to 6.0m (Right)	61	0.2298
## 07 - 6.1m to 9.0m (Right)	18	0.0678
## 08 - Greater than 9.0m (Right)	13	0.0490

**Plot of Feature:OFFSET3
Data:All 2017-Only 2017-Homologated.csv**



```
##  
## ======  
## FINAL INFO CHECKING FEATURE:OFFSET3  
## ALL DATA...  
## ======
```

```
##  
## Number of Blank Values:105653  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 11
```



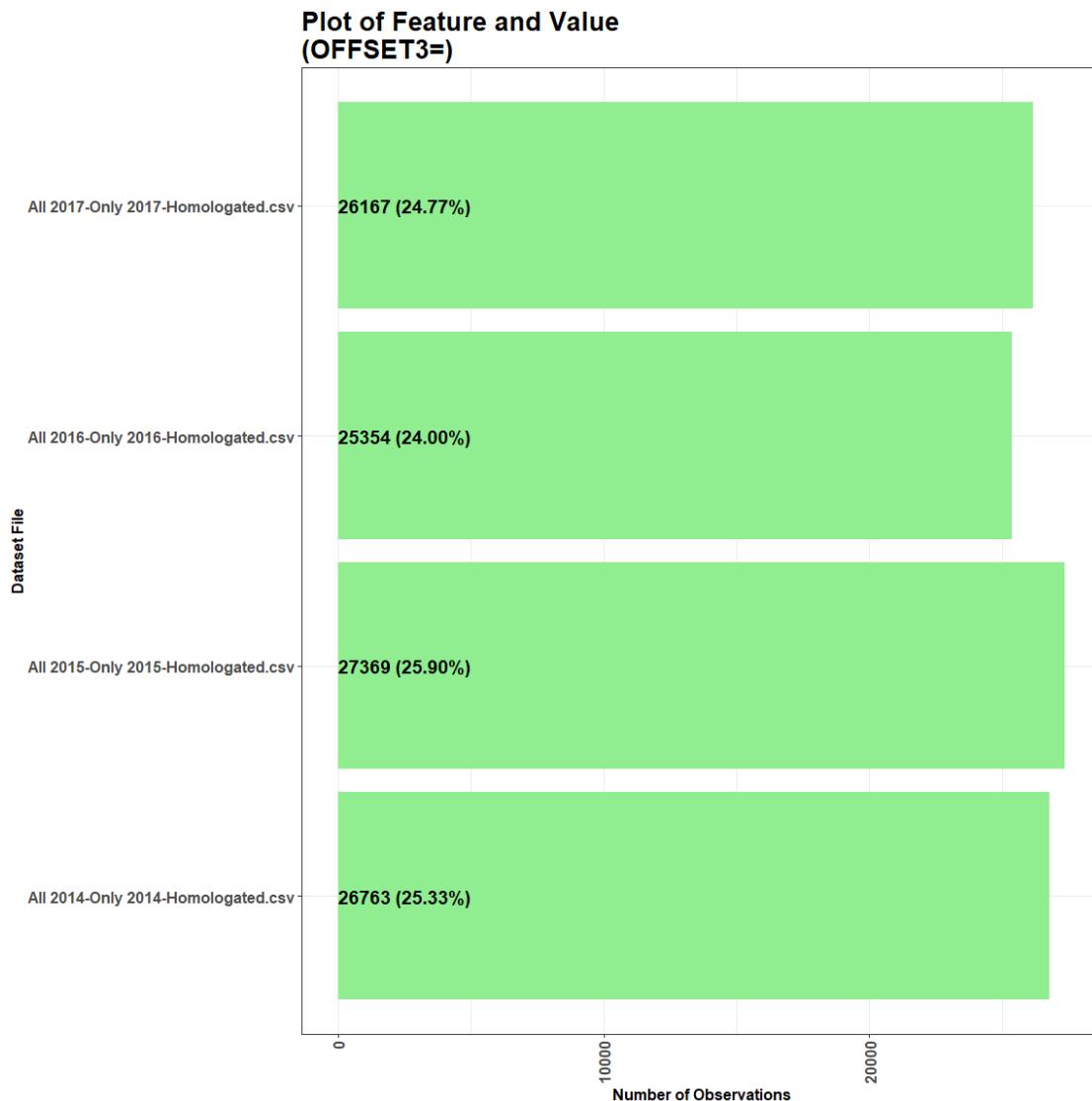
```
## [1] "TOP 100 FEATURES COUNTERS OF:OFFSET3"
```

Feature Value	Counter	Percentage
	105653	27.7670
-1	267373	70.2690
00 - Unknown	1252	0.3290
01 - Less than 3.1m (Left)	1794	0.4715
02 - 3.1m to 6.0m (Left)	916	0.2407
03 - 6.1m to 9.0m (Left)	417	0.1096
04 - Greater than 9.0m (Left)	260	0.0683
05 - Less than 3.1m (Right)	1387	0.3645
06 - 3.1m to 6.0m (Right)	839	0.2205

07 - 6.1m to 9.0m (Right)	316	0.0830
08 - Greater than 9.0m (Right)	292	0.0767

12.1 OFFSET3 = “” (Blank)

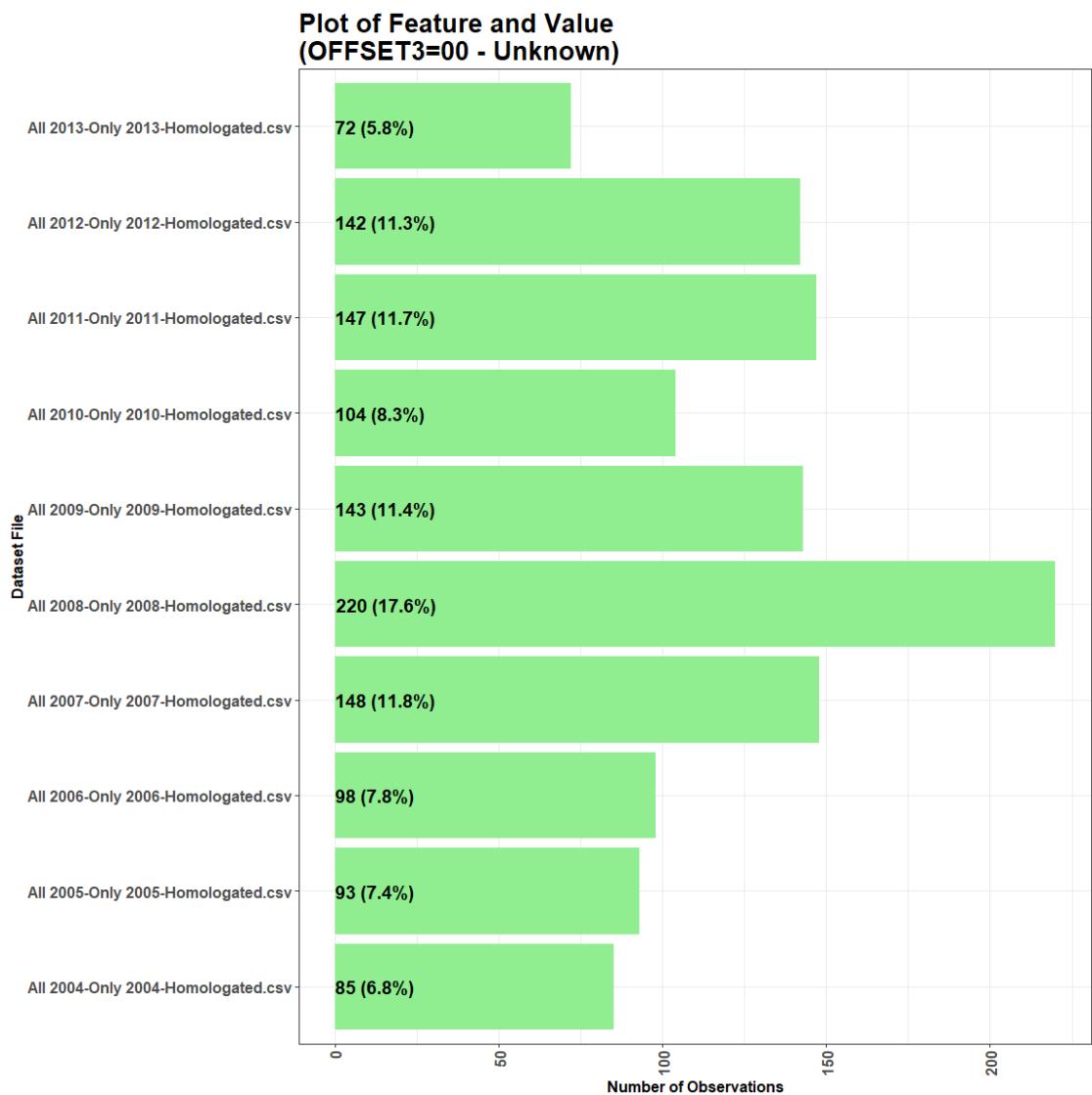
```
##  
## =====  
## CHECKING FEATURE AND VALUE (OFFSET3=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 26763 27369  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25354 26167
```



DATASET FILE	COUNTER OF (OFFSET3=)	Percentage
All 2014-Only 2014-Homologated.csv	26763	25.33
All 2015-Only 2015-Homologated.csv	27369	25.90
All 2016-Only 2016-Homologated.csv	25354	24.00
All 2017-Only 2017-Homologated.csv	26167	24.77

12.2 OFFSET3 = “00 - Unknown”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (OFFSET3=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 85 93  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 98 148  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 220 143  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 104 147  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 142 72
```

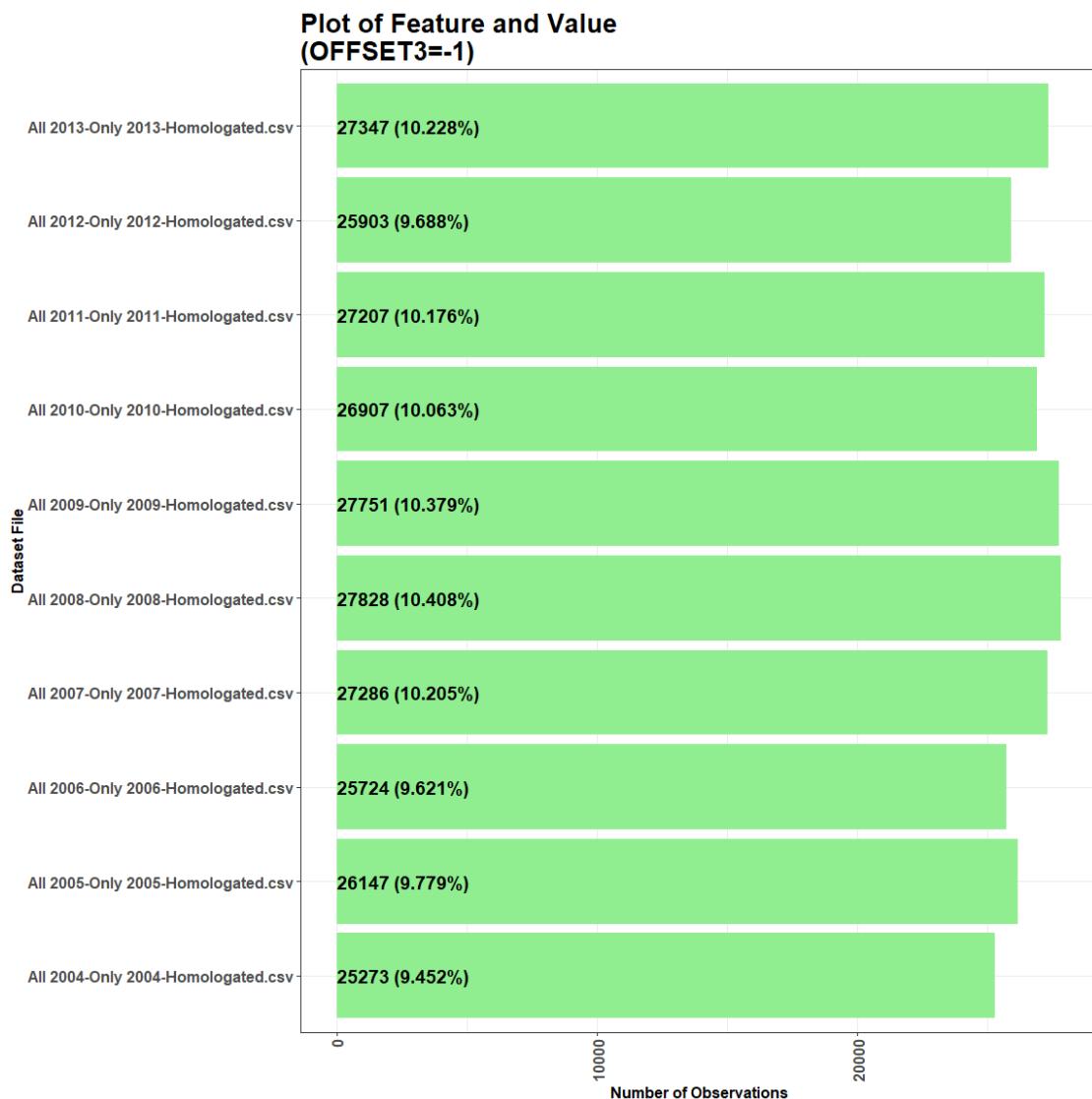


DATASET FILE	COUNTER OF (OFFSET3=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	85		6.789
All 2005-Only 2005-Homologated.csv	93		7.428
All 2006-Only 2006-Homologated.csv	98		7.827
All 2007-Only 2007-Homologated.csv	148		11.821
All 2008-Only 2008-Homologated.csv	220		17.572

All 2009-Only 2009-Homologated.csv	143	11.422
All 2010-Only 2010-Homologated.csv	104	8.307
All 2011-Only 2011-Homologated.csv	147	11.741
All 2012-Only 2012-Homologated.csv	142	11.342
All 2013-Only 2013-Homologated.csv	72	5.751

12.3 OFFSET3 = “-1”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (OFFSET3=-1)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25273 26147  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 25724 27286  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 27828 27751  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 26907 27207  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 25903 27347
```

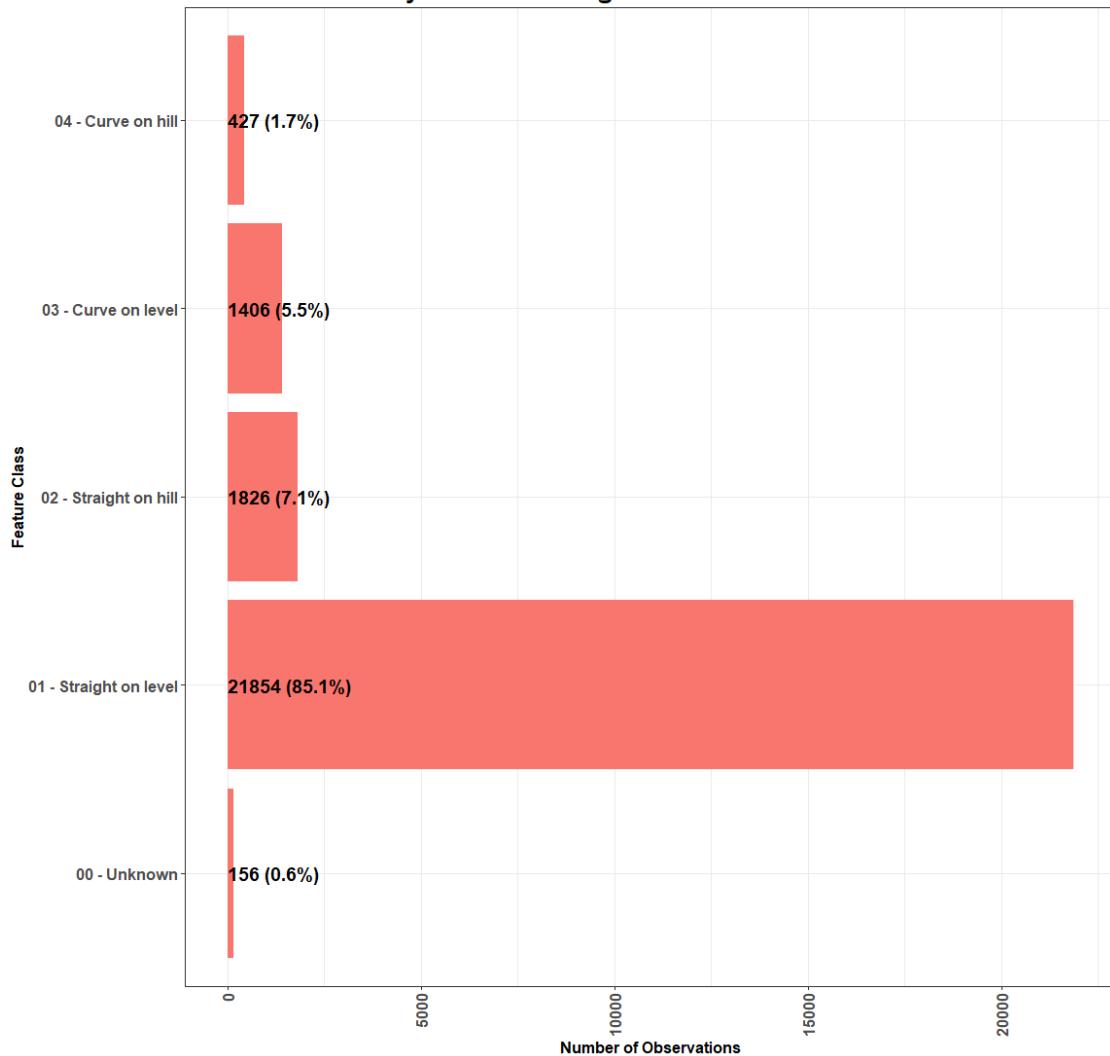


DATASET FILE	COUNTER OF (OFFSET3=-1)	Percentage
All 2004-Only 2004-Homologated.csv	25273	9.452
All 2005-Only 2005-Homologated.csv	26147	9.779
All 2006-Only 2006-Homologated.csv	25724	9.621
All 2007-Only 2007-Homologated.csv	27286	10.205
All 2008-Only 2008-Homologated.csv	27828	10.408
All 2009-Only 2009-Homologated.csv	27751	10.379
All 2010-Only 2010-Homologated.csv	26907	10.063
All 2011-Only 2011-Homologated.csv	27207	10.176
All 2012-Only 2012-Homologated.csv	25903	9.688
All 2013-Only 2013-Homologated.csv	27347	10.228

13. Road Alignment (ROAD_ALIGNMENT)

```
##  
## -----  
## CHECKING FEATURE:ROAD_ALIGNMENT  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_ALIGNMENT  
##  
## Feature Value Counter Percentage  
## ----- -----  
## 00 - Unknown 156 0.6077  
## 01 - Straight on level 21854 85.1377  
## 02 - Straight on hill 1826 7.1136  
## 03 - Curve on level 1406 5.4774  
## 04 - Curve on hill 427 1.6635
```

Plot of Feature:ROAD_ALIGNMENT
Data>All 2004-Only 2004-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_ALIGNMENT  

## DATA>All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF ROAD_ALIGNMENT  

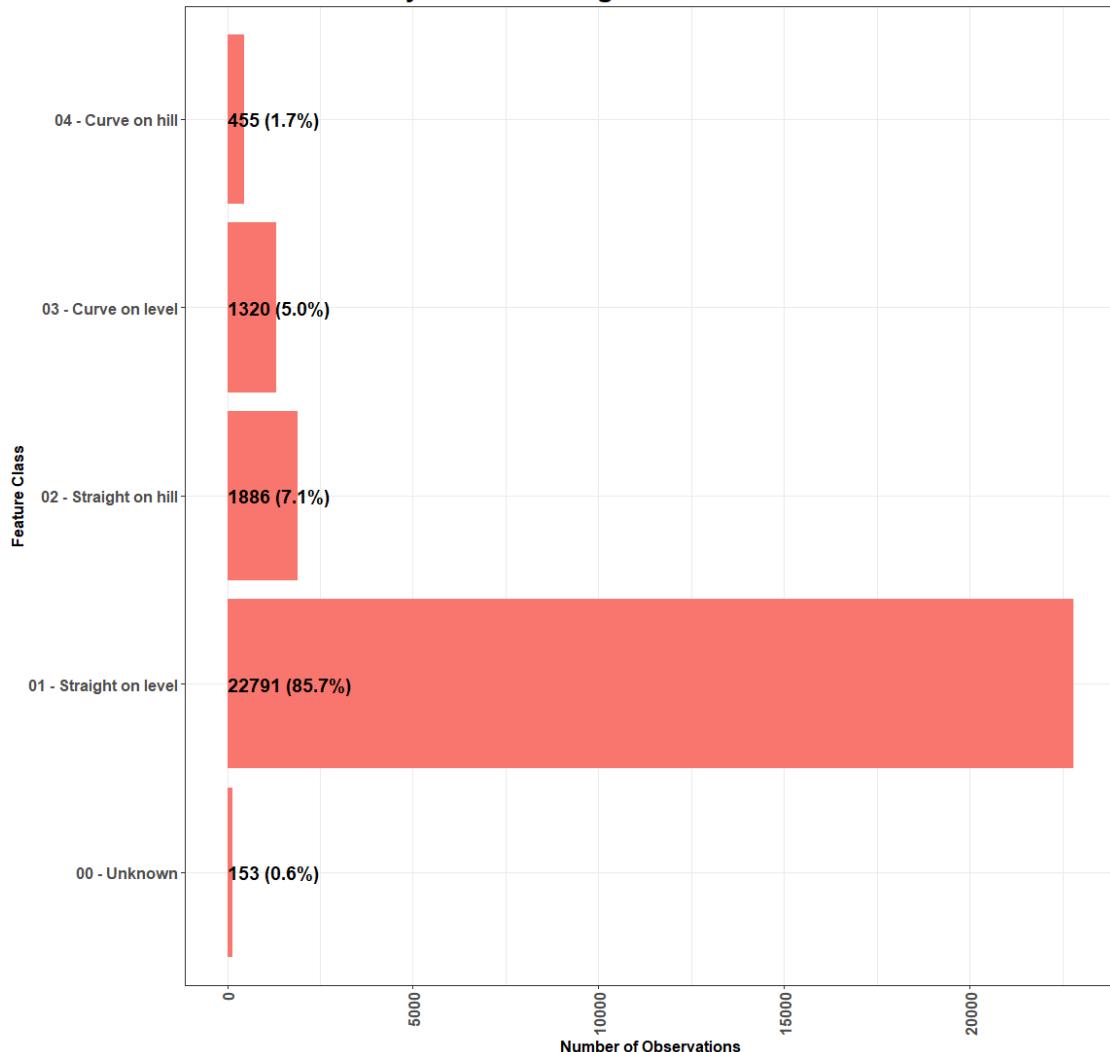
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	153	0.5751
## 01 - Straight on level	22791	85.6643
## 02 - Straight on hill	1886	7.0889
## 03 - Curve on level	1320	4.9615
## 04 - Curve on hill	455	1.7102

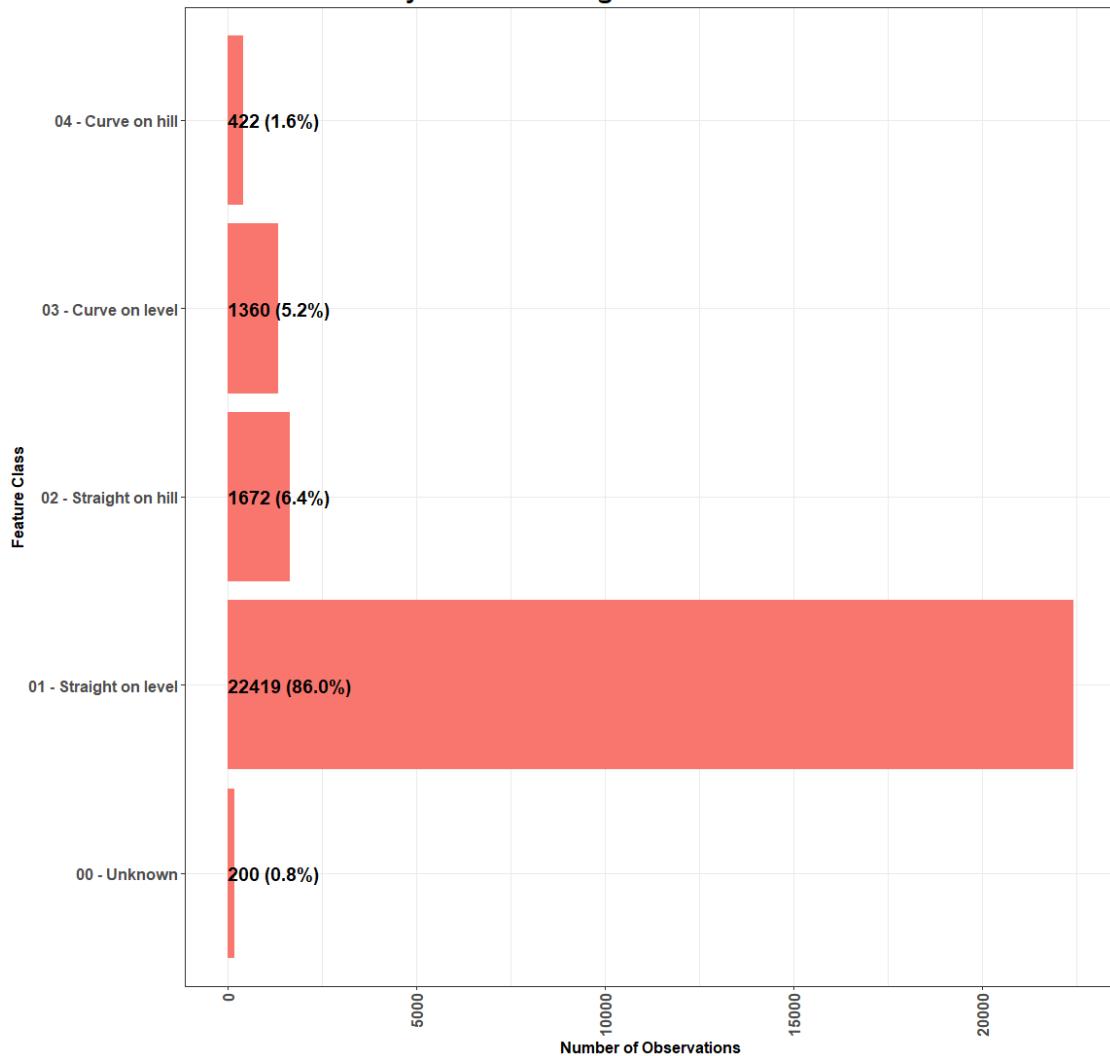
**Plot of Feature:ROAD_ALIGNMENT
Data>All 2005-Only 2005-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
## DATA>All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_ALIGNMENT
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 200 0.7671
## 01 - Straight on level 22419 85.9855
## 02 - Straight on hill 1672 6.4128
## 03 - Curve on level 1360 5.2161
## 04 - Curve on hill 422 1.6185
```

**Plot of Feature:ROAD_ALIGNMENT
Data:All 2006-Only 2006-Homologated.csv**

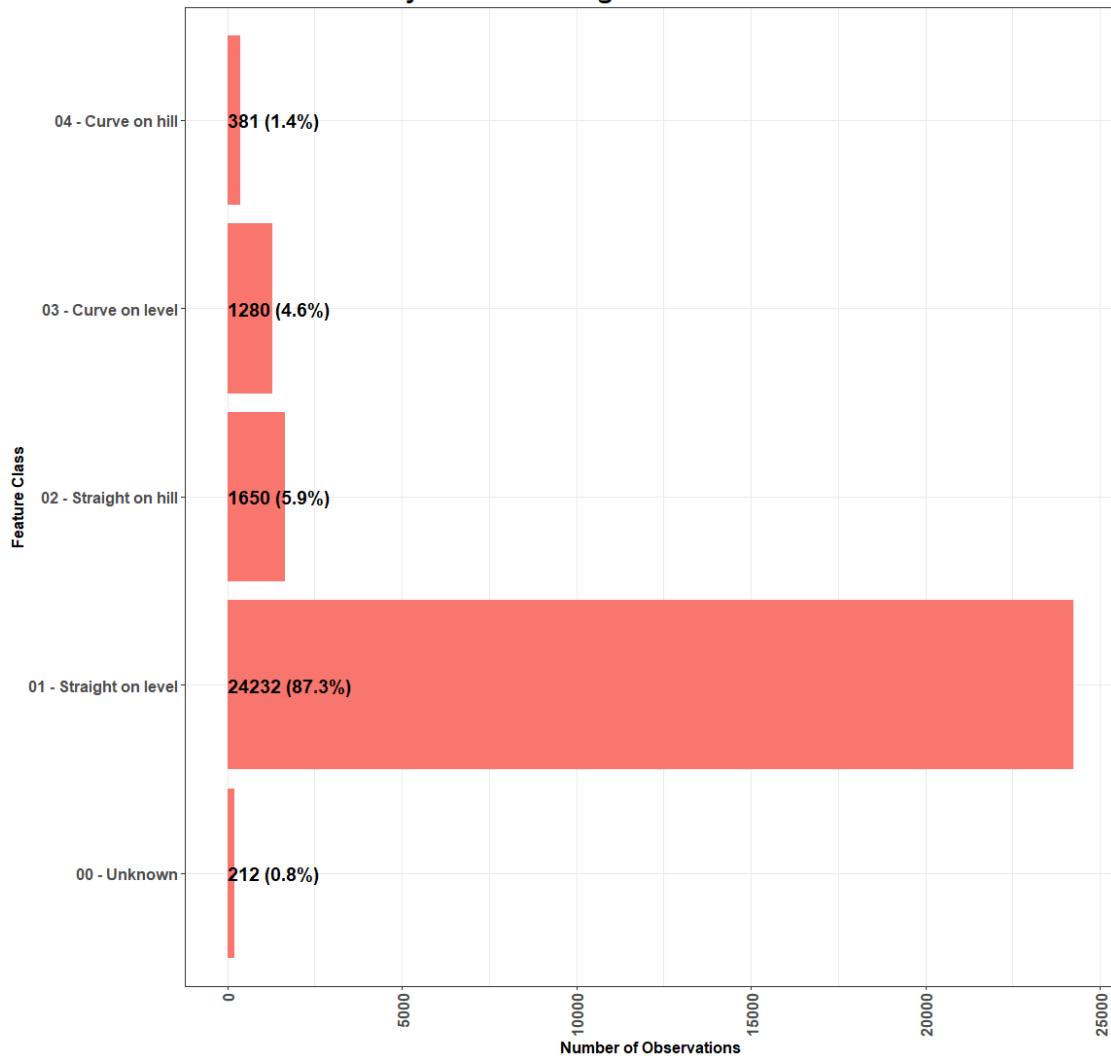


```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
```



```
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_ALIGNMENT
##
## Feature Value          Counter   Percentage
## -----                  -----      -----
## 00 - Unknown            212       0.7638
## 01 - Straight on level  24232     87.3068
## 02 - Straight on hill   1650      5.9449
## 03 - Curve on level    1280      4.6118
## 04 - Curve on hill     381       1.3727
```

Plot of Feature:ROAD_ALIGNMENT
Data>All 2007-Only 2007-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_ALIGNMENT  

## DATA>All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF ROAD_ALIGNMENT  

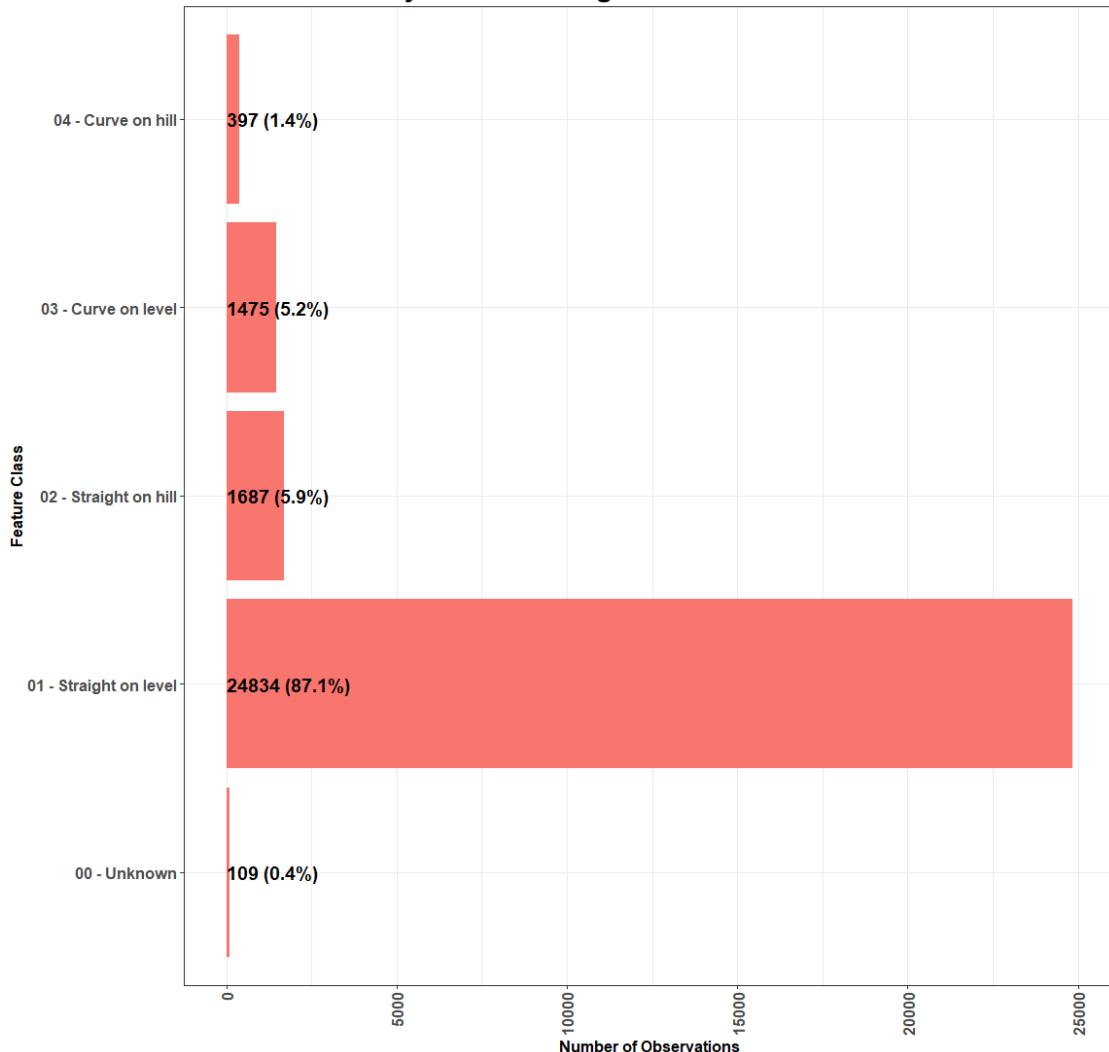
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	109	0.3824
## 01 - Straight on level	24834	87.1307
## 02 - Straight on hill	1687	5.9189
## 03 - Curve on level	1475	5.1751
## 04 - Curve on hill	397	1.3929

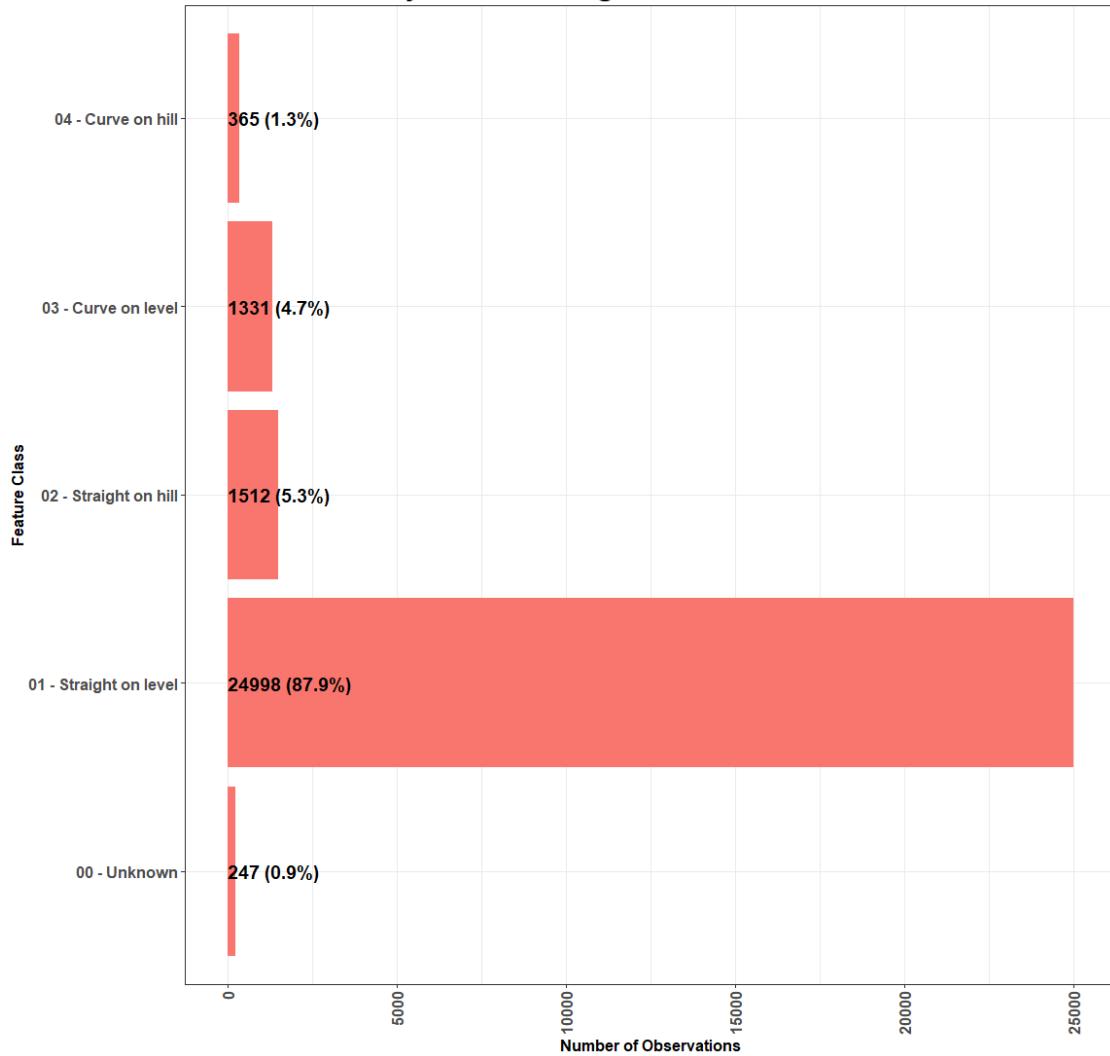
**Plot of Feature:ROAD_ALIGNMENT
Data>All 2008-Only 2008-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
## DATA>All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_ALIGNMENT
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 247 0.8681
## 01 - Straight on level 24998 87.8572
## 02 - Straight on hill 1512 5.3140
## 03 - Curve on level 1331 4.6779
## 04 - Curve on hill 365 1.2828
```

**Plot of Feature:ROAD_ALIGNMENT
Data:All 2009-Only 2009-Homologated.csv**

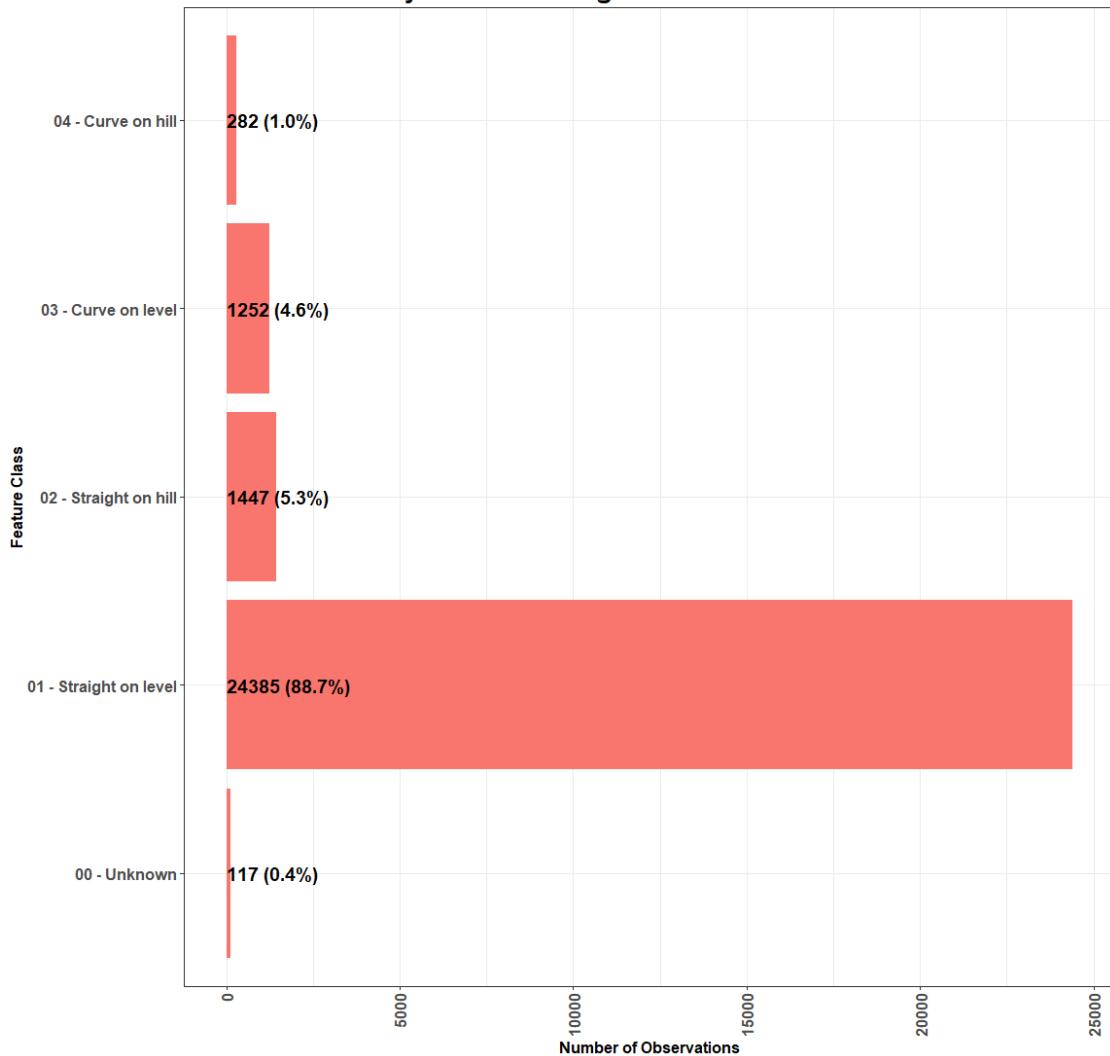


```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
```



```
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_ALIGNMENT
##
## Feature Value          Counter   Percentage
## ----- - -----
## 00 - Unknown           117       0.4257
## 01 - Straight on level 24385     88.7276
## 02 - Straight on hill   1447      5.2651
## 03 - Curve on level    1252      4.5555
## 04 - Curve on hill     282       1.0261
```

Plot of Feature:ROAD_ALIGNMENT
Data:All 2010-Only 2010-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_ALIGNMENT  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF ROAD_ALIGNMENT  

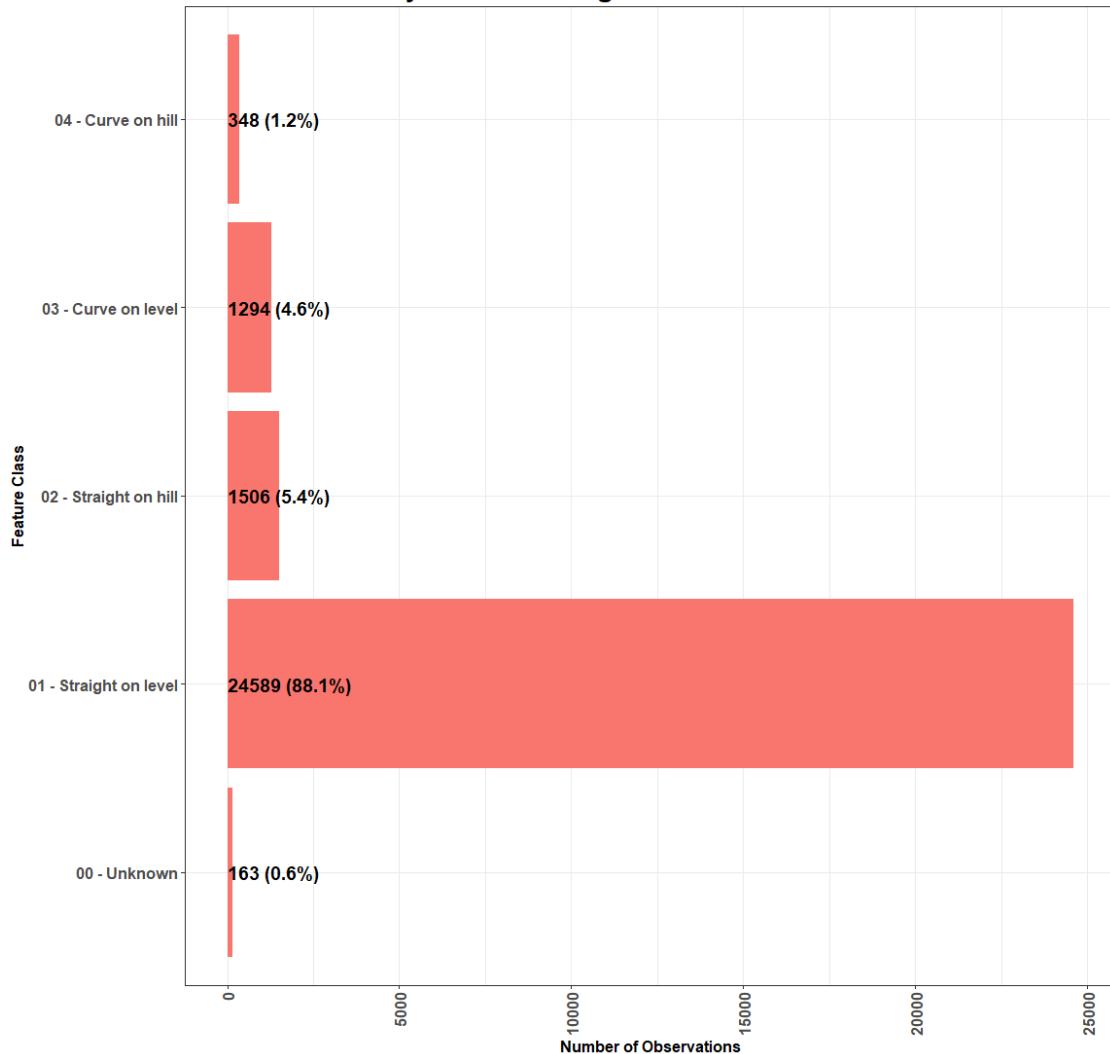
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	163	0.5842
## 01 - Straight on level	24589	88.1326
## 02 - Straight on hill	1506	5.3978
## 03 - Curve on level	1294	4.6380
## 04 - Curve on hill	348	1.2473

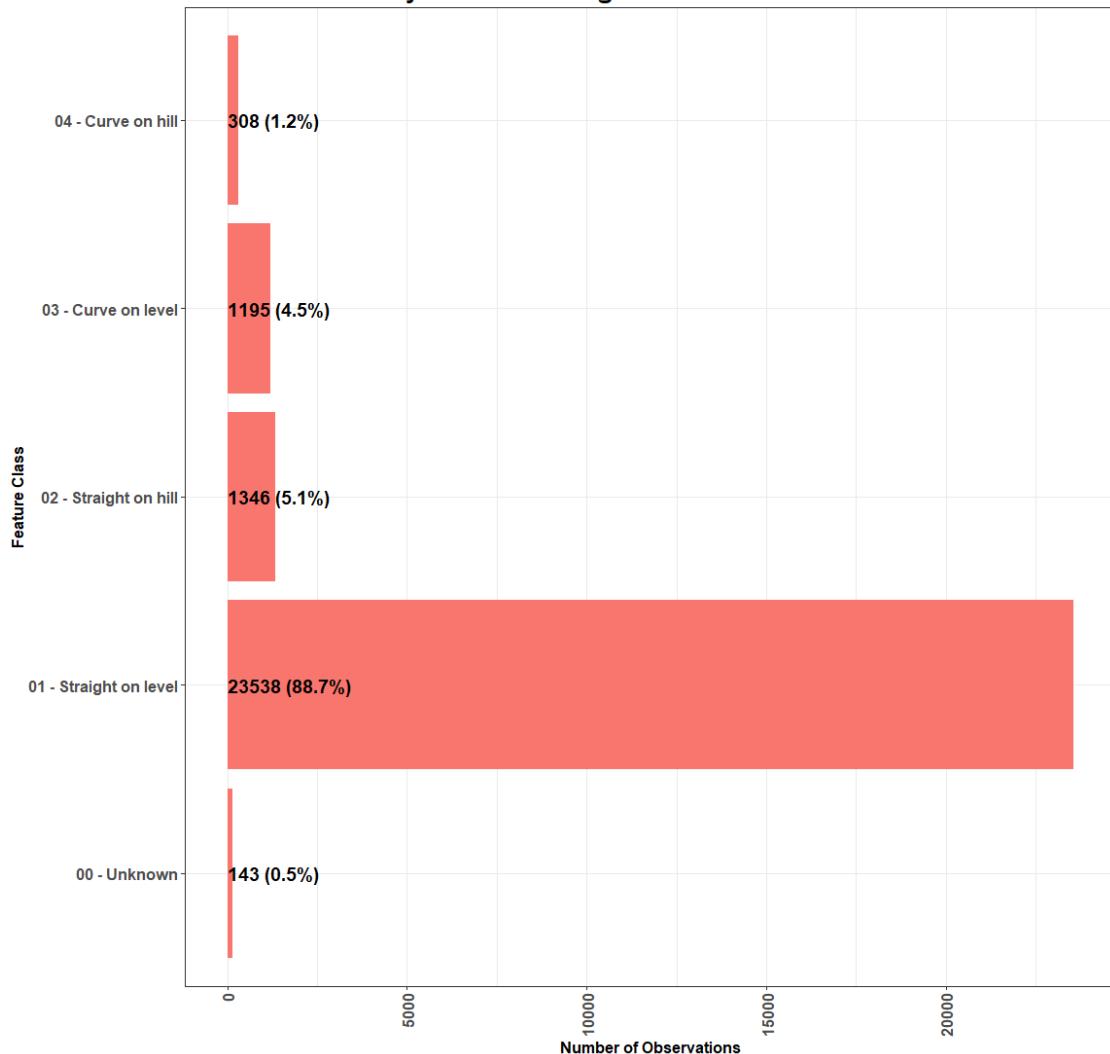
**Plot of Feature:ROAD_ALIGNMENT
Data:All 2011-Only 2011-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_ALIGNMENT
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 143 0.539
## 01 - Straight on level 23538 88.722
## 02 - Straight on hill 1346 5.074
## 03 - Curve on level 1195 4.504
## 04 - Curve on hill 308 1.161
```

**Plot of Feature:ROAD_ALIGNMENT
Data:All 2012-Only 2012-Homologated.csv**

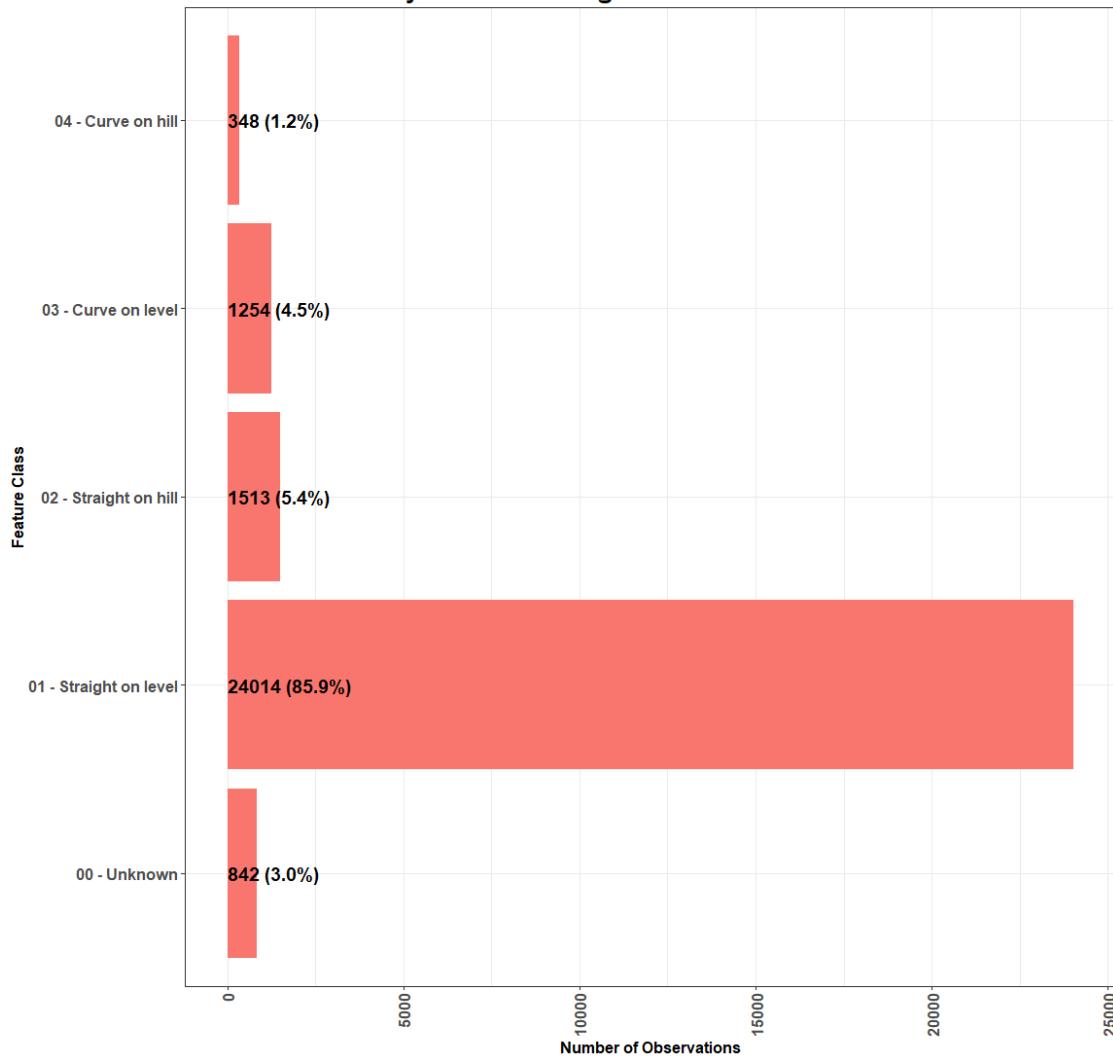


```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
```



```
## DATA:All 2013-Only 2013-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 5
## 
## TOP 100 FEATURES OF ROAD_ALIGNMENT
## 
## Feature Value          Counter   Percentage
## -----
## 00 - Unknown           842       3.010
## 01 - Straight on level 24014      85.853
## 02 - Straight on hill   1513       5.409
## 03 - Curve on level    1254       4.483
## 04 - Curve on hill     348        1.244
```

Plot of Feature:ROAD_ALIGNMENT
Data:All 2013-Only 2013-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_ALIGNMENT  

## DATA:All 2014-Only 2014-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF ROAD_ALIGNMENT  

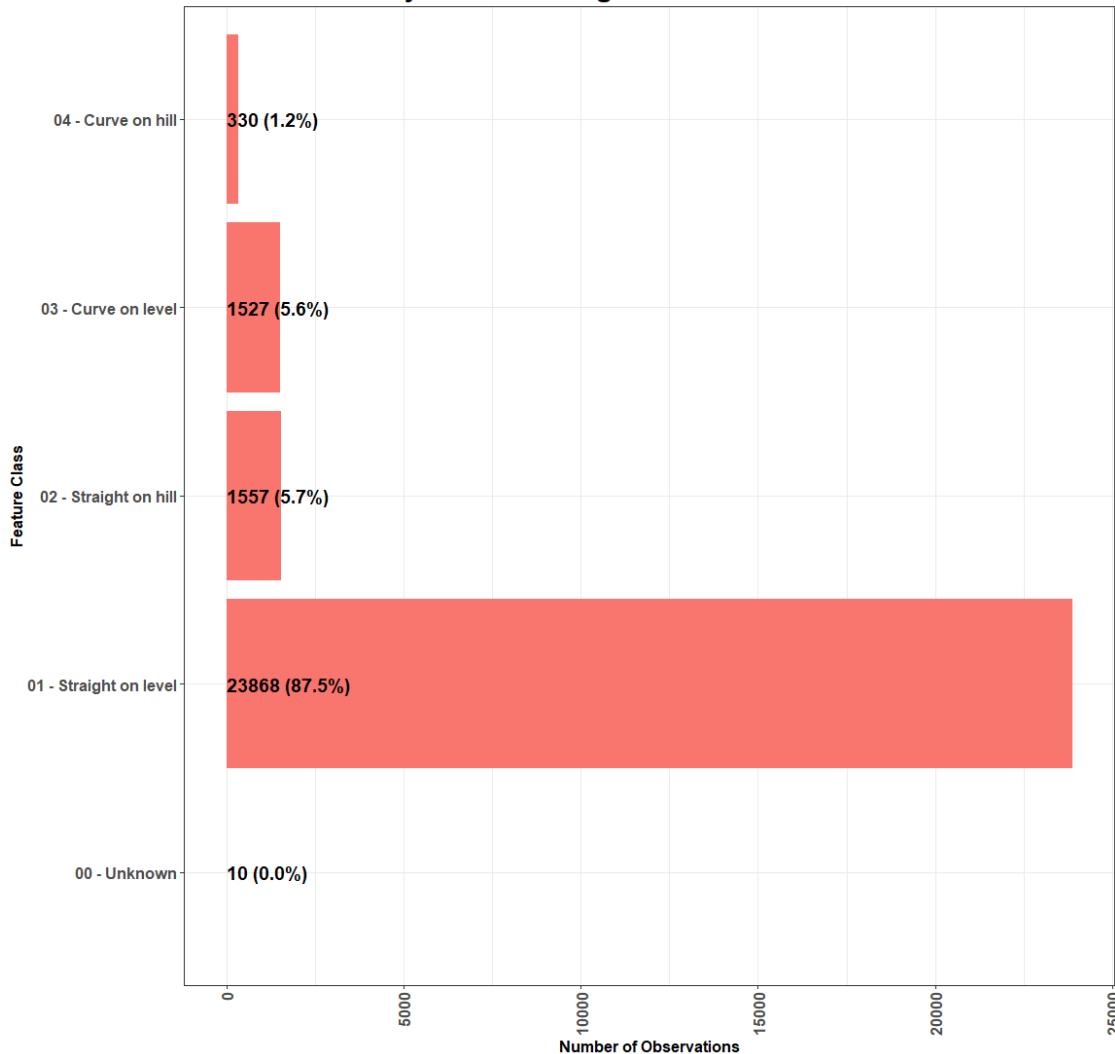
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	10	0.0366
## 01 - Straight on level	23868	87.4542
## 02 - Straight on hill	1557	5.7050
## 03 - Curve on level	1527	5.5950
## 04 - Curve on hill	330	1.2091

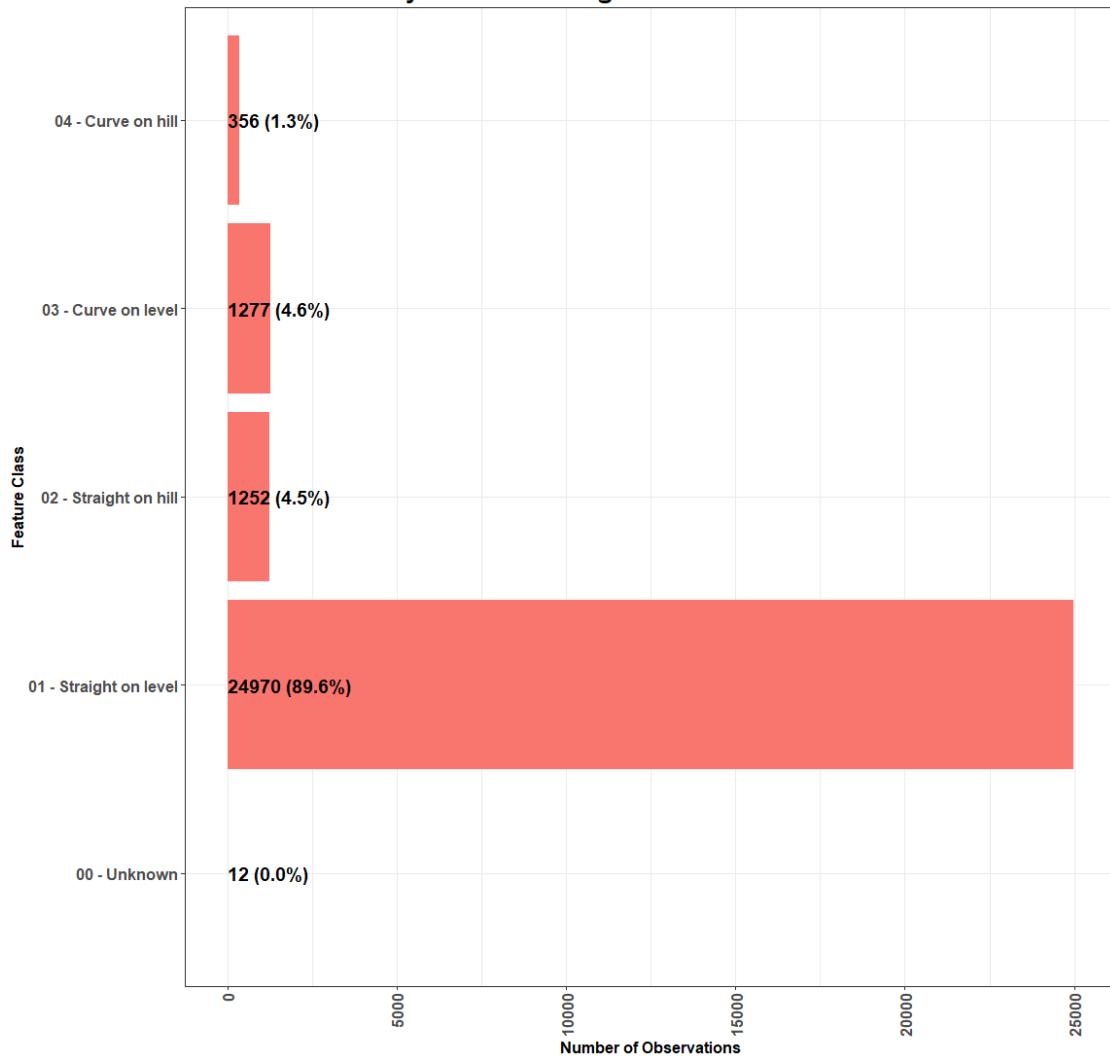
**Plot of Feature:ROAD_ALIGNMENT
Data:All 2014-Only 2014-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_ALIGNMENT
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 12 0.0431
## 01 - Straight on level 24970 89.6042
## 02 - Straight on hill 1252 4.4928
## 03 - Curve on level 1277 4.5825
## 04 - Curve on hill 356 1.2775
```

Plot of Feature:ROAD_ALIGNMENT
Data:All 2015-Only 2015-Homologated.csv

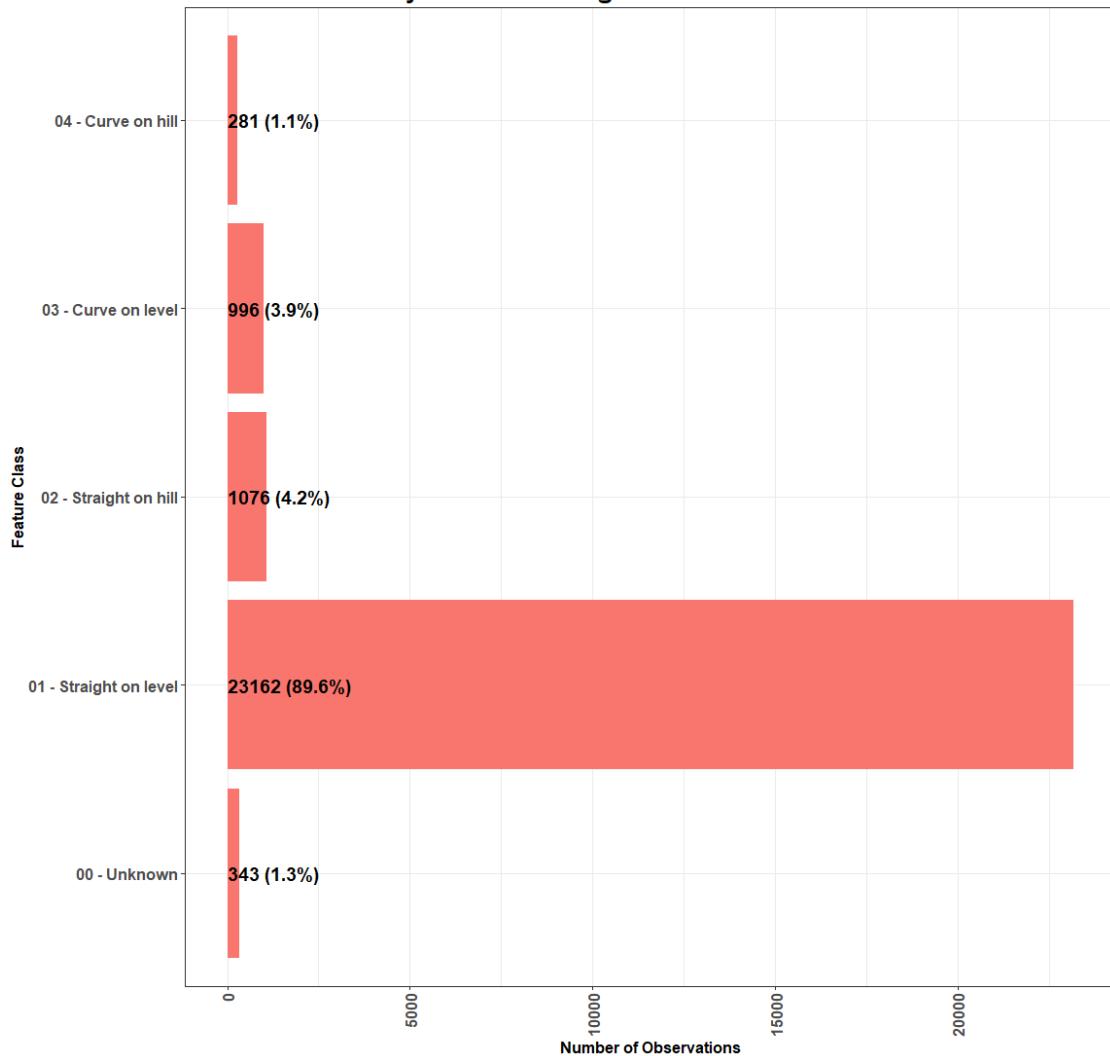


```
##
## -----
## CHECKING FEATURE:ROAD_ALIGNMENT
```



```
## DATA:All 2016-Only 2016-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 5
## 
## TOP 100 FEATURES OF ROAD_ALIGNMENT
## 
## Feature Value          Counter   Percentage
## -----
## 00 - Unknown           343       1.327
## 01 - Straight on level 23162     89.574
## 02 - Straight on hill   1076      4.161
## 03 - Curve on level    996       3.852
## 04 - Curve on hill     281       1.087
```

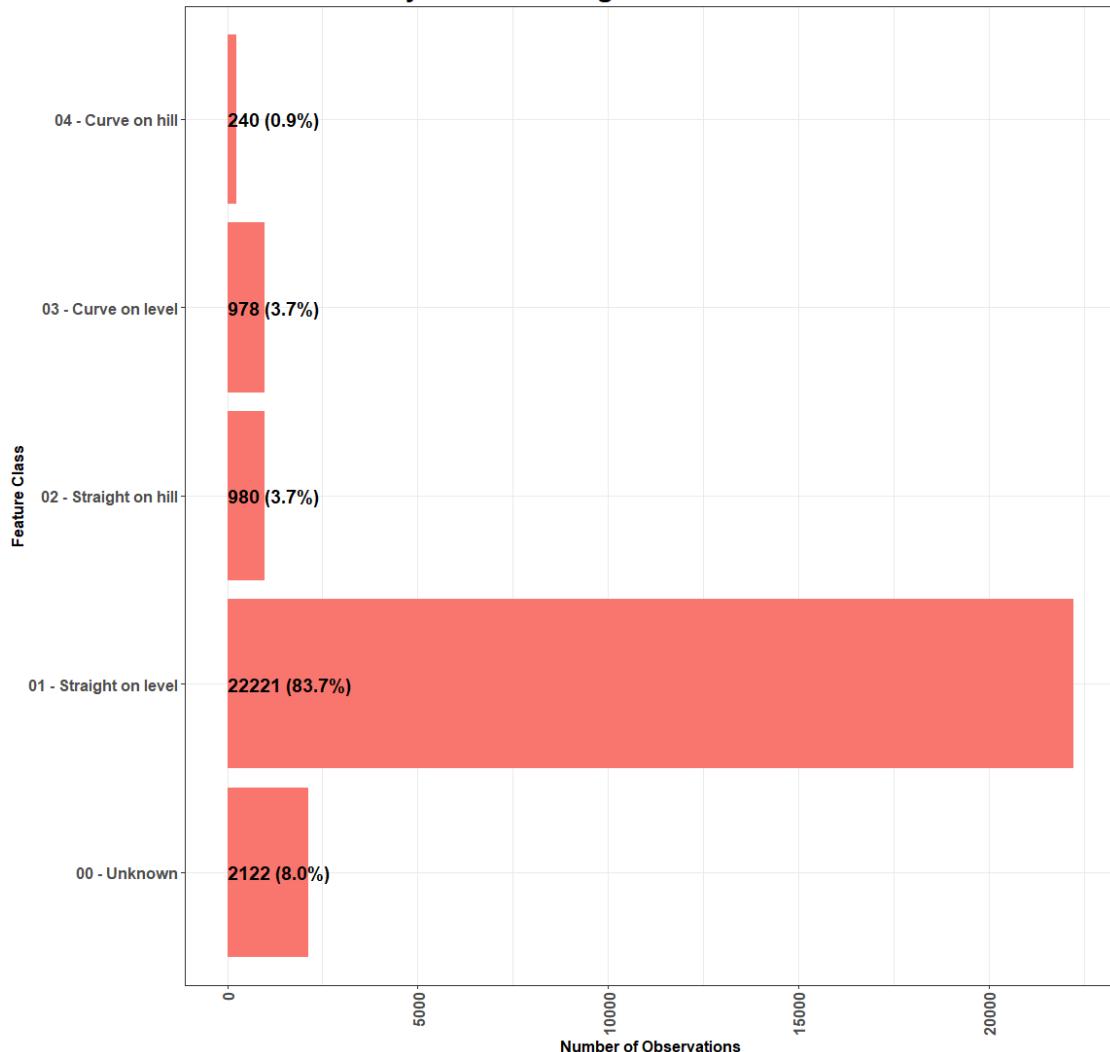
**Plot of Feature:ROAD_ALIGNMENT
Data>All 2016-Only 2016-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:ROAD_ALIGNMENT  
## DATA>All 2017-Only 2017-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_ALIGNMENT  
##  
## Feature Value Counter Percentage  
## -----
```

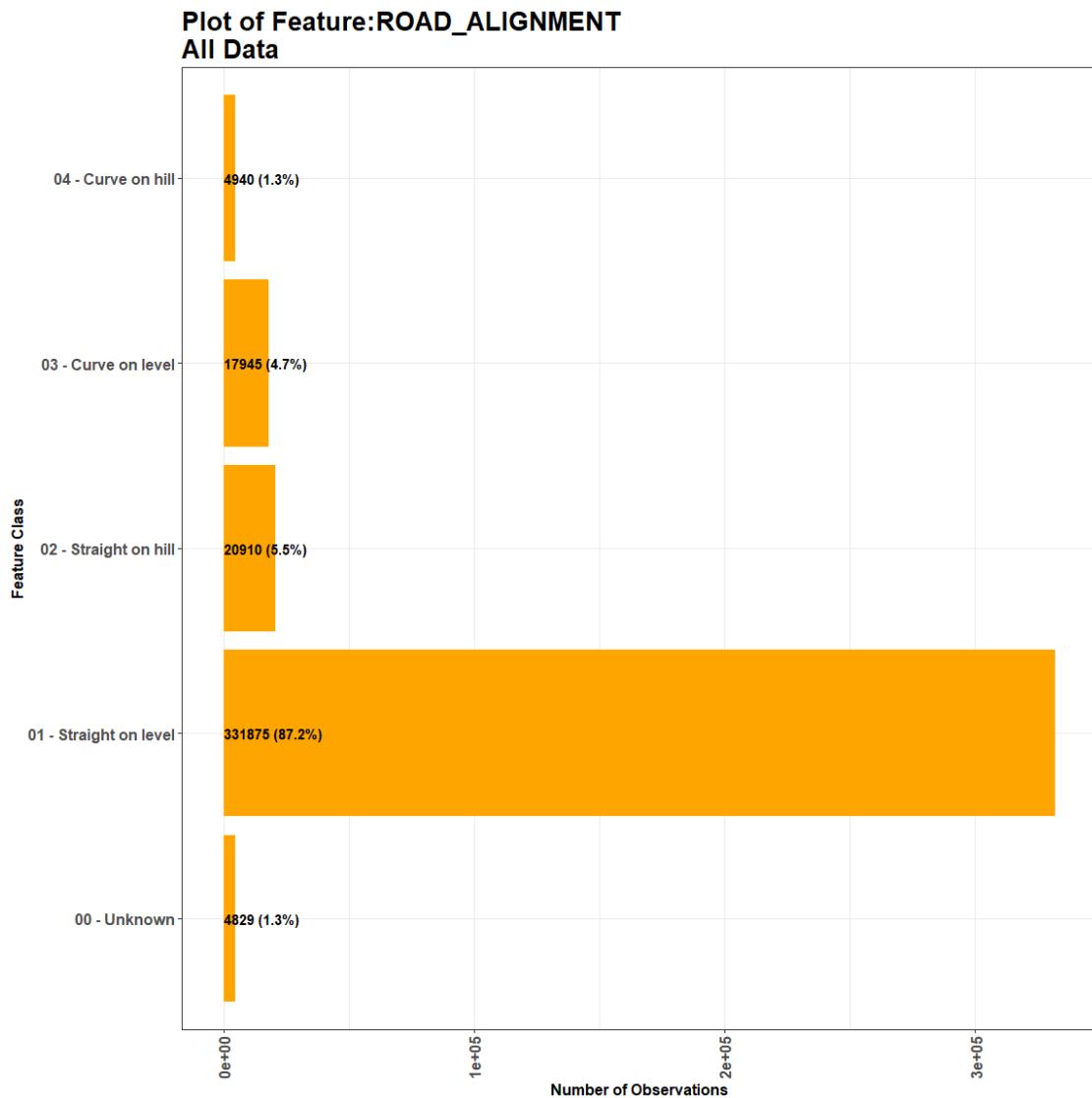
## 00 - Unknown	2122	7.9952
## 01 - Straight on level	22221	83.7233
## 02 - Straight on hill	980	3.6924
## 03 - Curve on level	978	3.6849
## 04 - Curve on hill	240	0.9043

**Plot of Feature:ROAD_ALIGNMENT
Data:All 2017-Only 2017-Homologated.csv**



```
##
## =====
## FINAL INFO CHECKING FEATURE:ROAD_ALIGNMENT
## ALL DATA...
## =====
## Number of Blank Values:0
##
## Summary per Data File:
```

```
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                               25669                           26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                               26073                           27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                               28502                           28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                               27483                           27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                               26530                           27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                               27292                           27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                               25858                           26541
##
##
## Summary as Factor Feature:
## Number of Features: 5
```



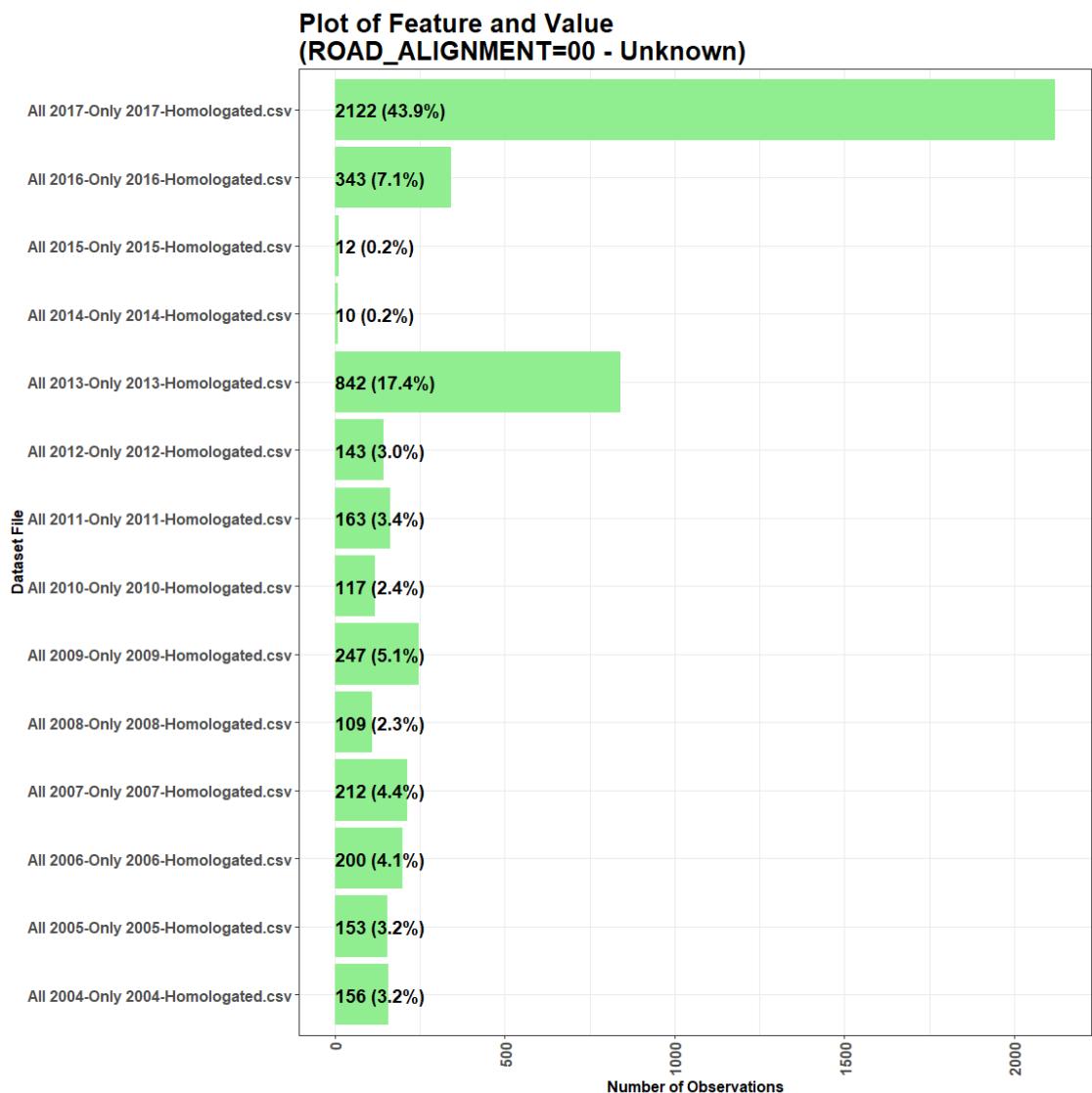
```
## [1] "TOP 100 FEATURES COUNTERS OF:ROAD_ALIGNMENT"
```

Feature Value	Counter	Percentage
00 - Unknown	4829	1.269
01 - Straight on level	331875	87.221
02 - Straight on hill	20910	5.495
03 - Curve on level	17945	4.716
04 - Curve on hill	4940	1.298

13.1 ROAD_ALIGNMENT = “00 - Unknown”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (ROAD_ALIGNMENT=00 - Unknown)
```

```
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 156 153  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 200 212  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 109 247  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 117 163  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 143 842  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 10 12  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 343 2122
```



DATASET FILE	COUNTER OF (ROAD_ALIGNMENT=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	156	3.2305	
All 2005-Only 2005-Homologated.csv	153	3.1684	
All 2006-Only 2006-Homologated.csv	200	4.1416	
All 2007-Only 2007-Homologated.csv	212	4.3901	
All 2008-Only 2008-Homologated.csv	109	2.2572	

All 2009-Only 2009-Homologated.csv	247	5.1149
All 2010-Only 2010-Homologated.csv	117	2.4229
All 2011-Only 2011-Homologated.csv	163	3.3754
All 2012-Only 2012-Homologated.csv	143	2.9613
All 2013-Only 2013-Homologated.csv	842	17.4363
All 2014-Only 2014-Homologated.csv	10	0.2071
All 2015-Only 2015-Homologated.csv	12	0.2485
All 2016-Only 2016-Homologated.csv	343	7.1029
All 2017-Only 2017-Homologated.csv	2122	43.9428

14. Road Character (ROAD_CHARACTER)

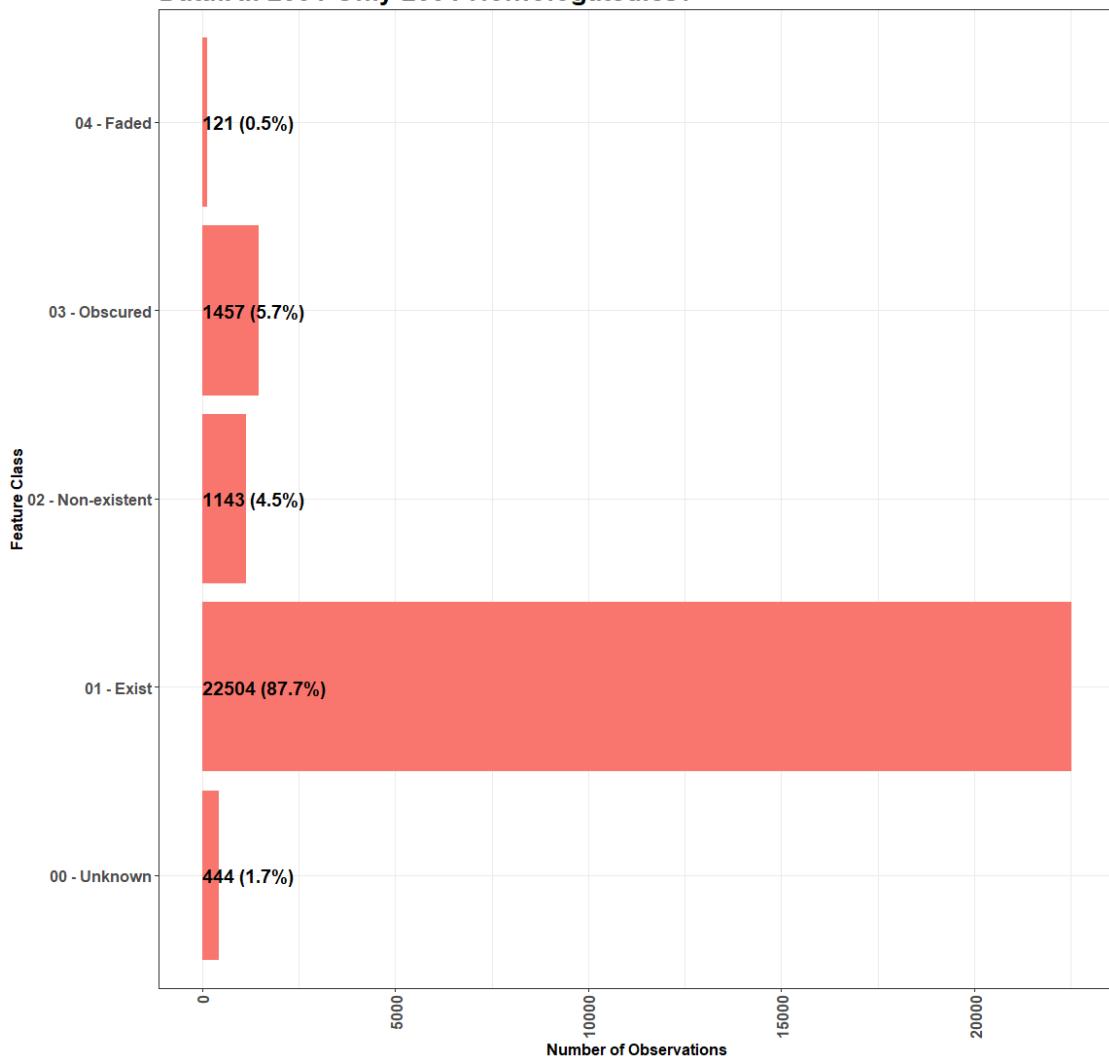
Feature ignored/removed.

15. Road Pavement Markings (ROAD_PAVEMENT_MARKINGS)

```
##  
## -----  
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 444 1.7297  
## 01 - Exist 22504 87.6700  
## 02 - Non-existent 1143 4.4528
```

```
## 03 - Obscured      1457      5.6761
## 04 - Faded        121       0.4714
```

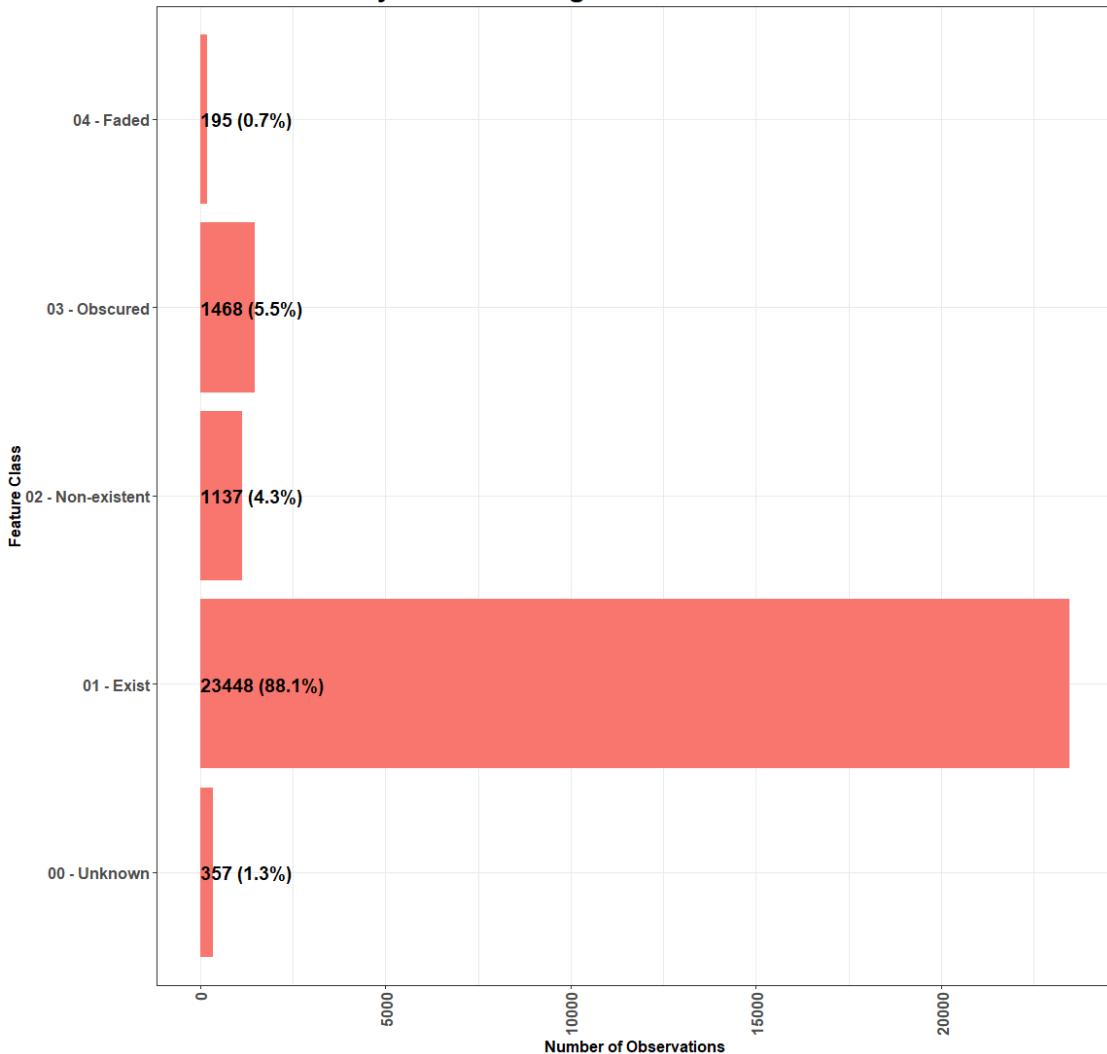
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2004-Only 2004-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
```

```
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 357 1.3419  
## 01 - Exist 23448 88.1338  
## 02 - Non-existent 1137 4.2736  
## 03 - Obscured 1468 5.5178  
## 04 - Faded 195 0.7329
```

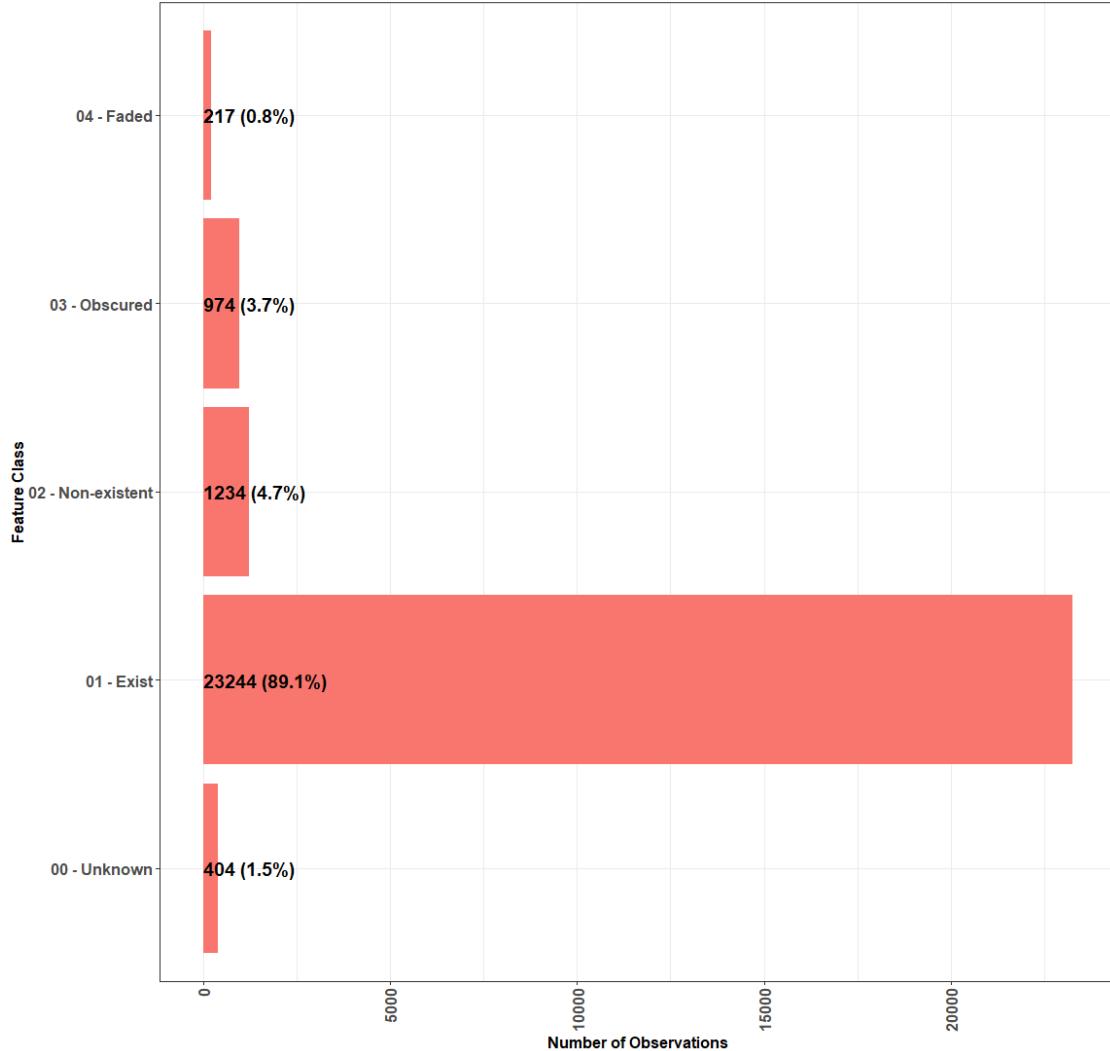
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2005-Only 2005-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  
## DATA:All 2006-Only 2006-Homologated.csv...  
##  
## Number of Blank Values:0
```

```
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown      404     1.5495
## 01 - Exist        23244    89.1497
## 02 - Non-existent 1234     4.7329
## 03 - Obscured     974     3.7357
## 04 - Faded         217     0.8323
```

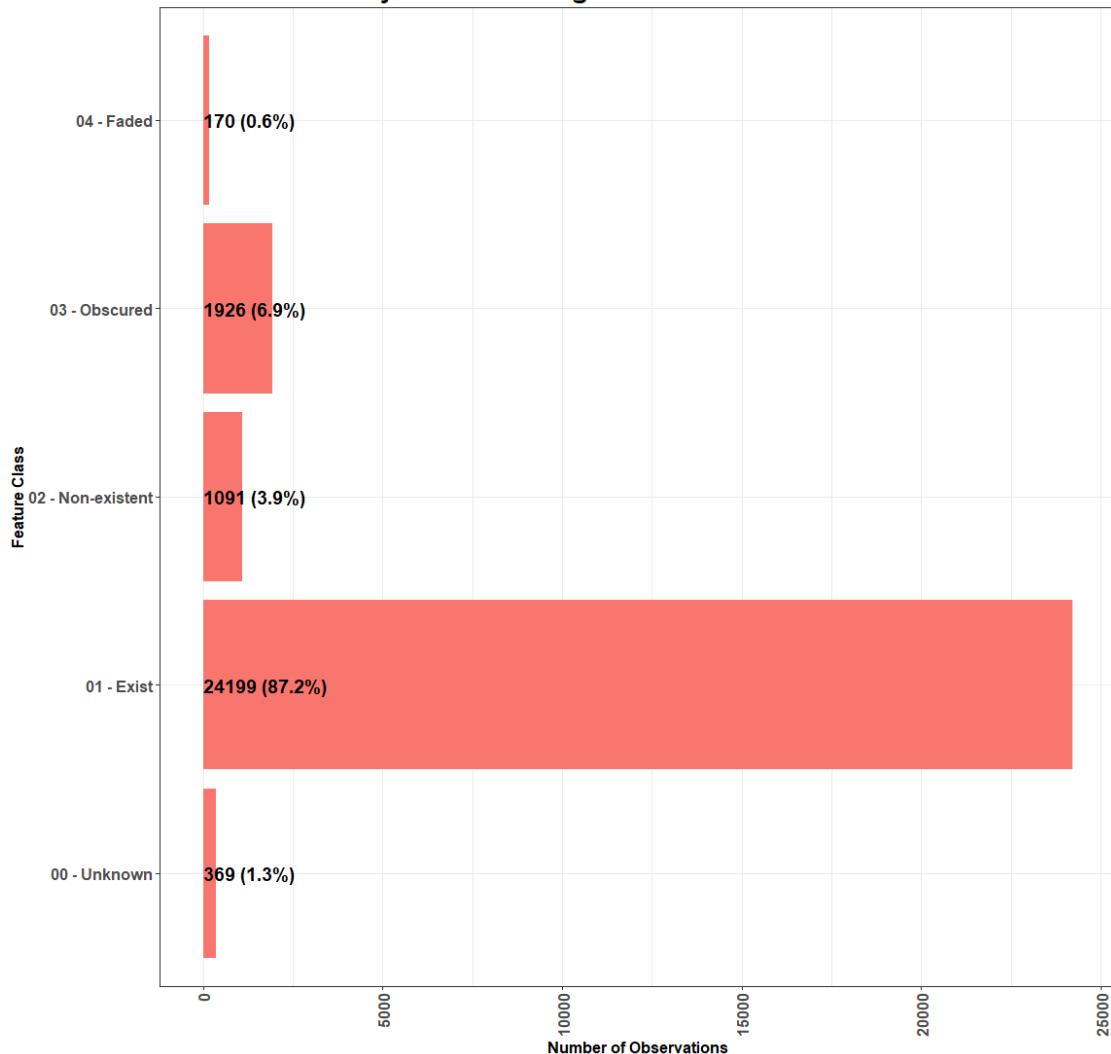
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2006-Only 2006-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 369 1.3295  
## 01 - Exist 24199 87.1879  
## 02 - Non-existent 1091 3.9308  
## 03 - Obscured 1926 6.9393  
## 04 - Faded 170 0.6125
```

Plot of Feature:ROAD_PAVEMENT_MARKINGS

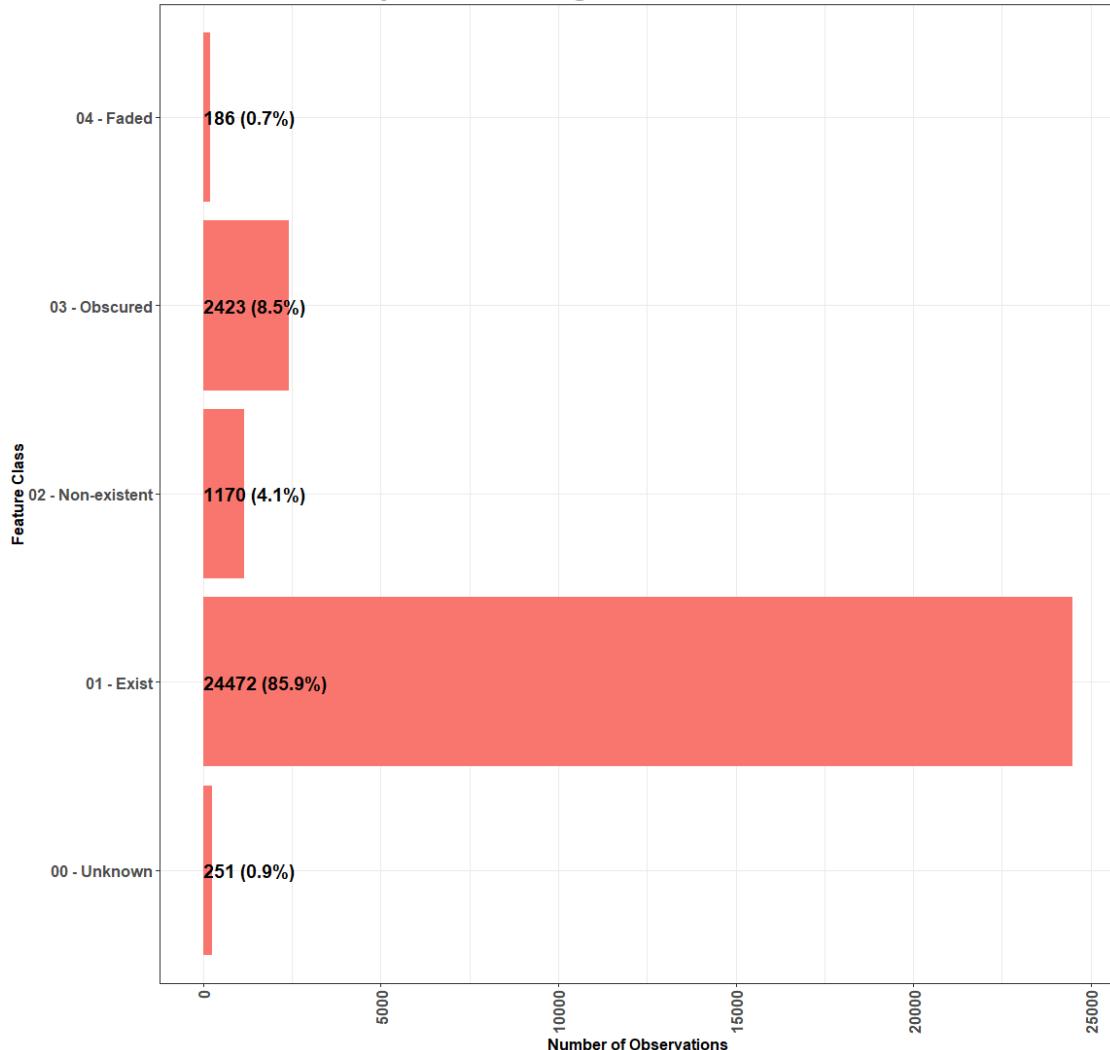
Data:All 2007-Only 2007-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  
## DATA:All 2008-Only 2008-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS  
##  
## Feature Value Counter Percentage  
## -----
```

## 00 - Unknown	251	0.8806
## 01 - Exist	24472	85.8606
## 02 - Non-existent	1170	4.1050
## 03 - Obscured	2423	8.5012
## 04 - Faded	186	0.6526

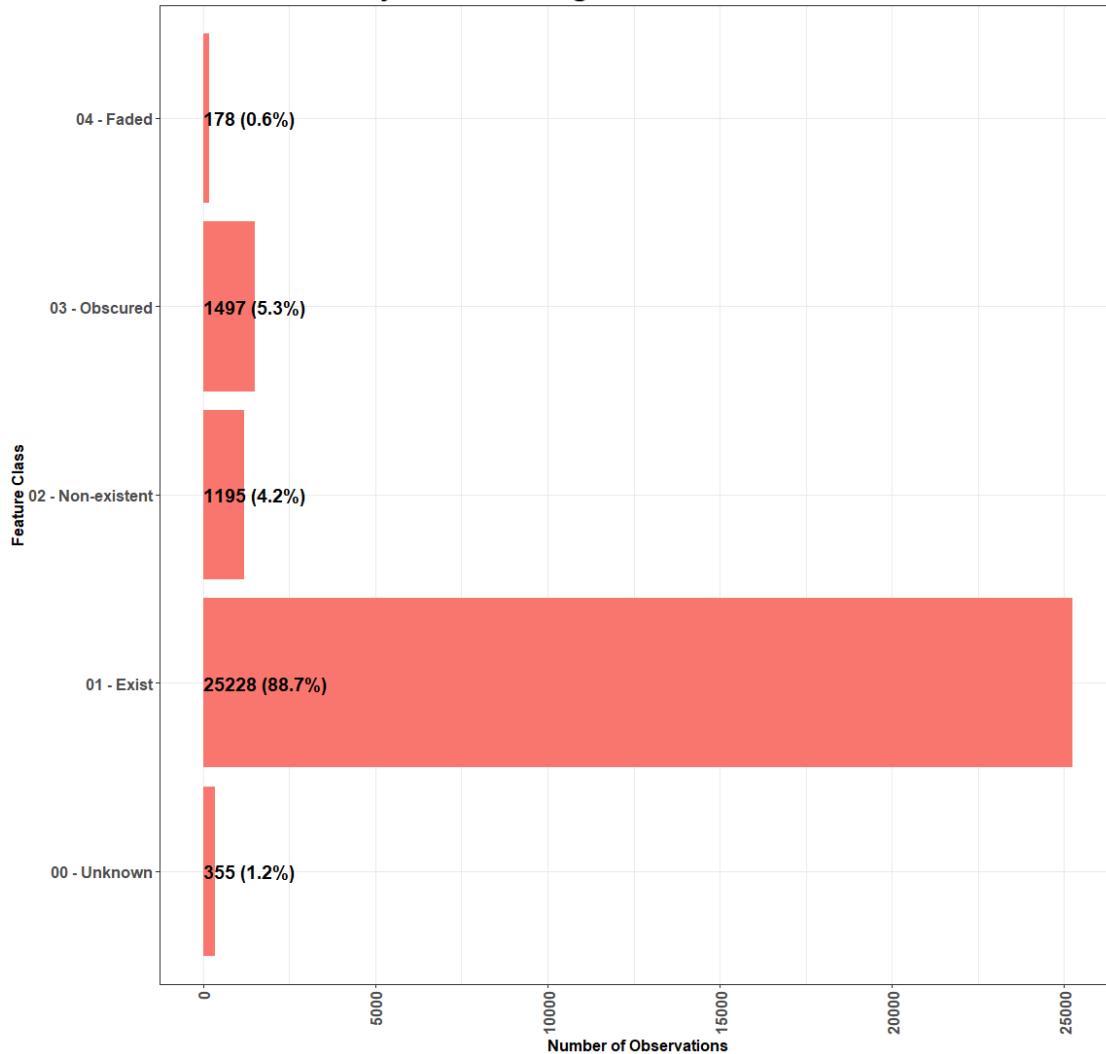
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2008-Only 2008-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 355 1.2477
## 01 - Exist 25228 88.6655
## 02 - Non-existent 1195 4.1999
## 03 - Obscured 1497 5.2613
## 04 - Faded 178 0.6256
```

Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2009-Only 2009-Homologated.csv



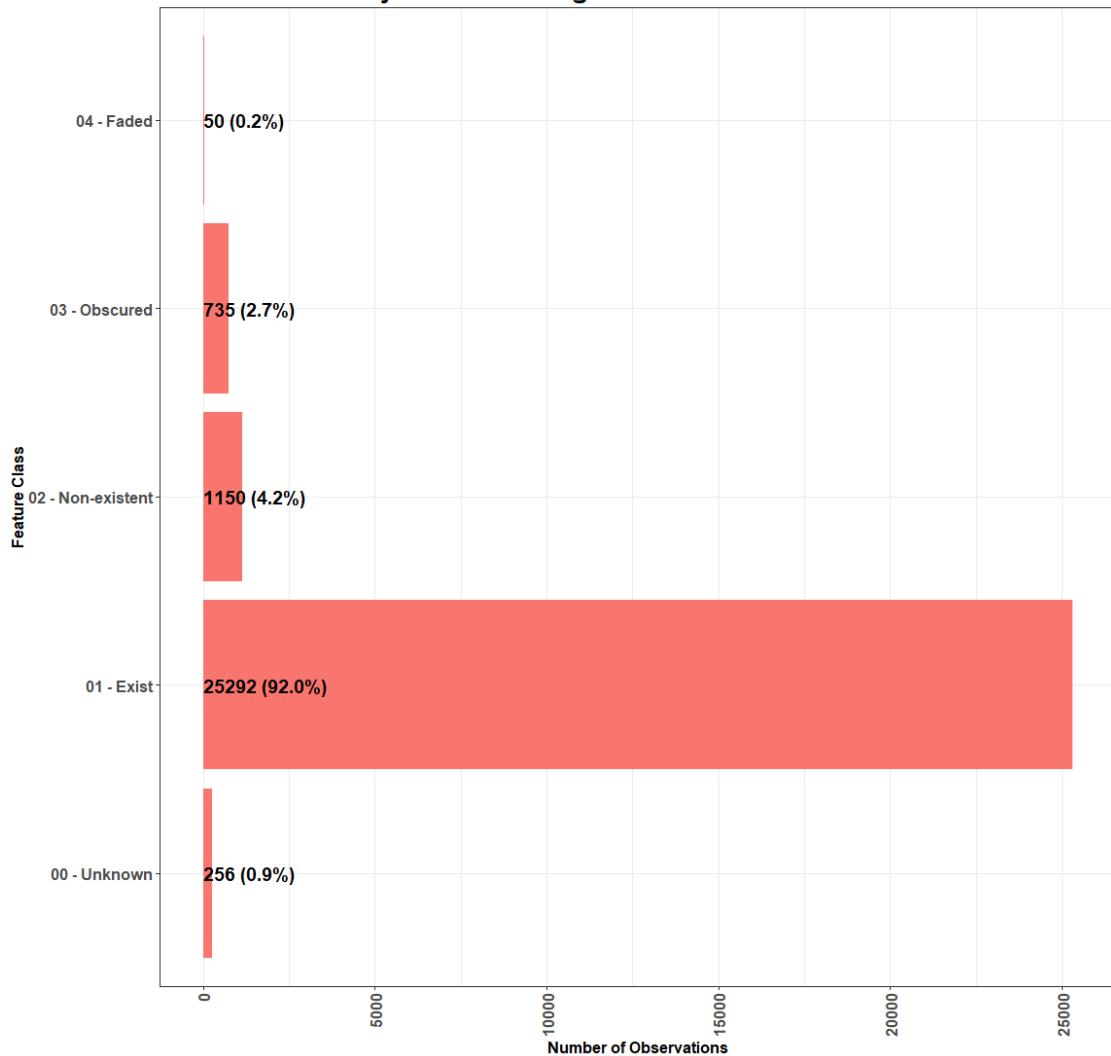
```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
```



```
## DATA:All 2010-Only 2010-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 5
## 
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
## 
## Feature Value      Counter   Percentage
## ----- -----
## 00 - Unknown      256       0.9315
## 01 - Exist         25292     92.0278
## 02 - Non-existent  1150      4.1844
## 03 - Obscured       735       2.6744
## 04 - Faded          50        0.1819
```

Plot of Feature:ROAD_PAVEMENT_MARKINGS

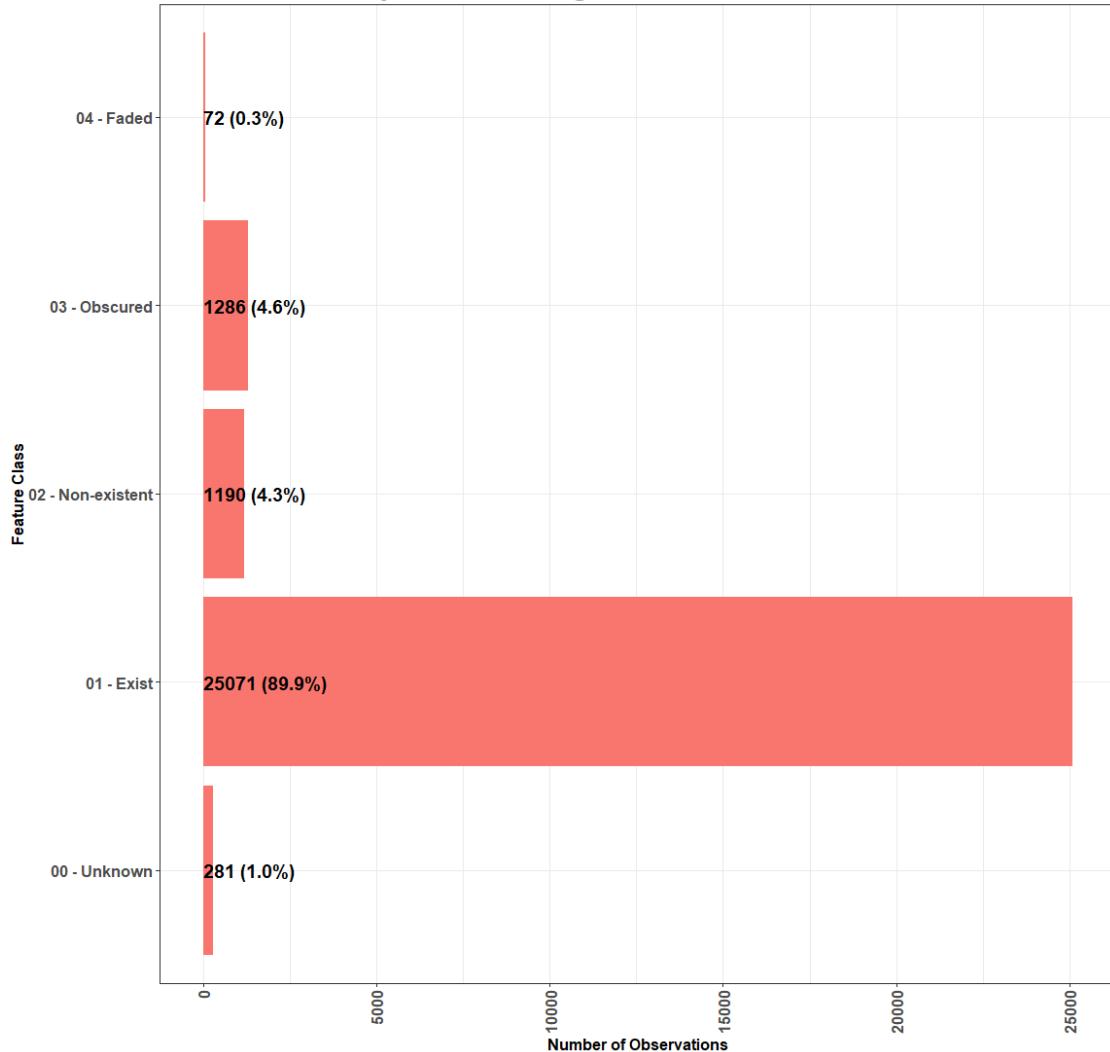
Data:All 2010-Only 2010-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  
## DATA:All 2011-Only 2011-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS  
##  
## Feature Value Counter Percentage  
## -----
```

## 00 - Unknown	281	1.0072
## 01 - Exist	25071	89.8602
## 02 - Non-existent	1190	4.2652
## 03 - Obscured	1286	4.6093
## 04 - Faded	72	0.2581

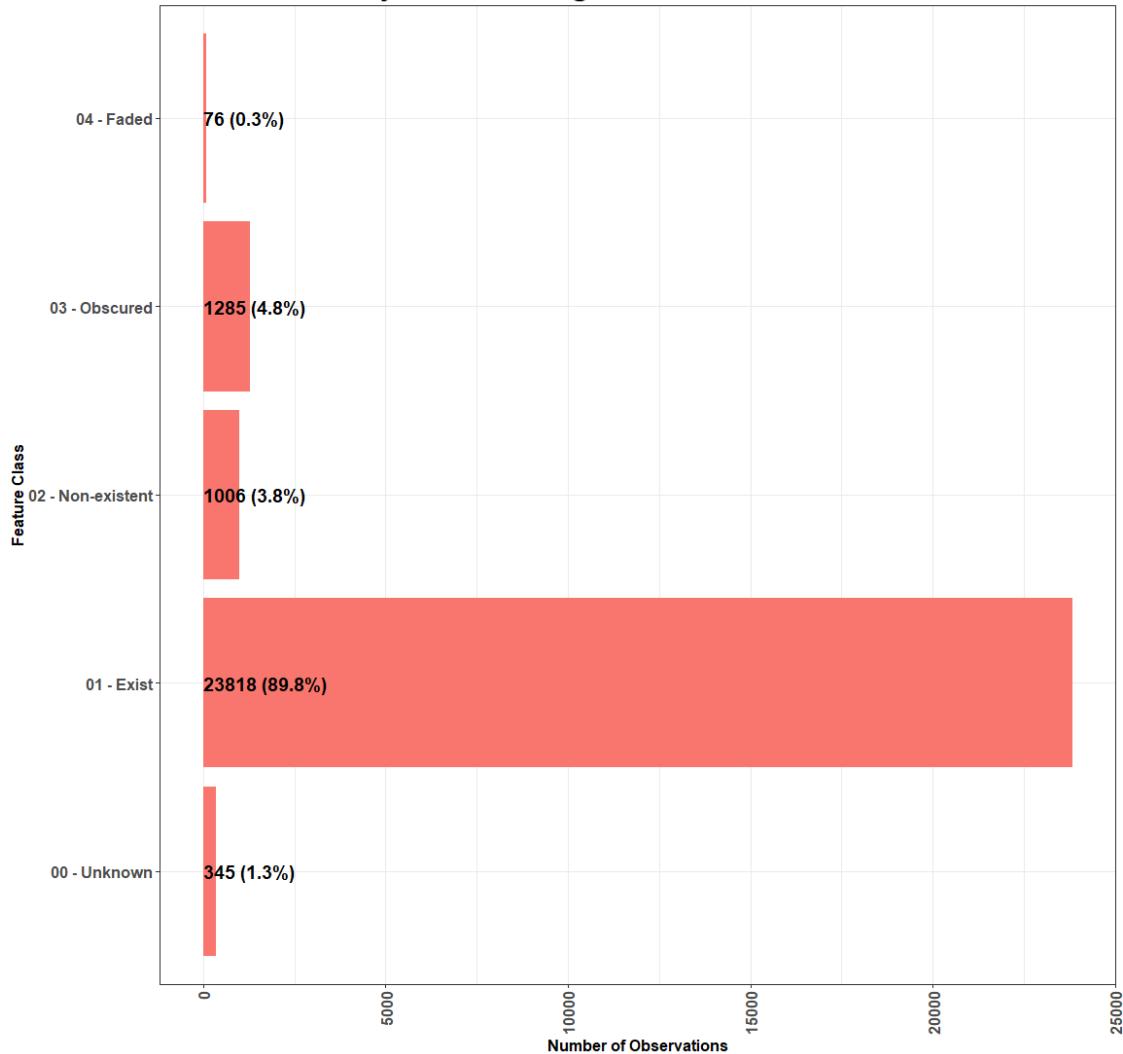
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 345 1.3004
## 01 - Exist 23818 89.7776
## 02 - Non-existent 1006 3.7919
## 03 - Obscured 1285 4.8436
## 04 - Faded 76 0.2865
```

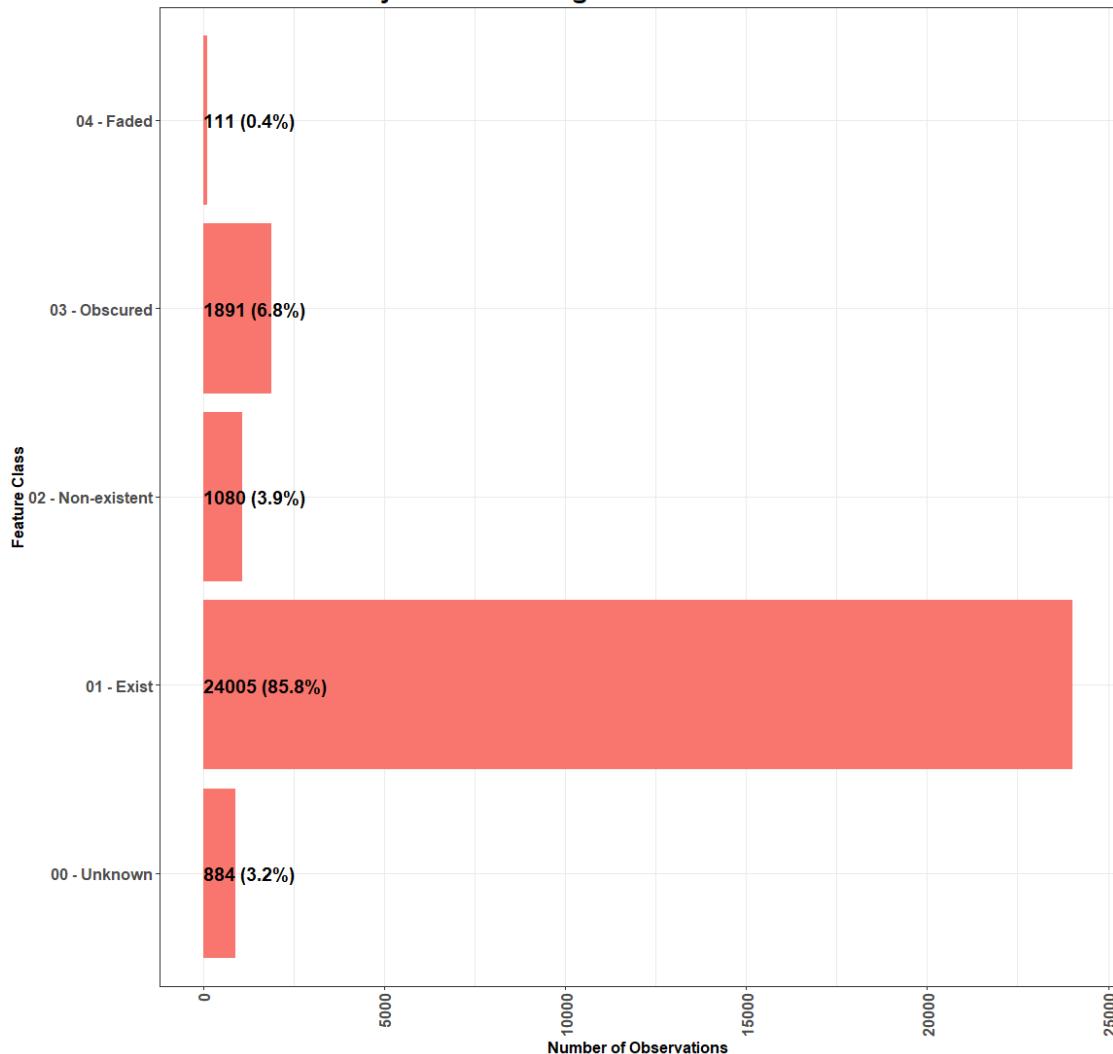
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2012-Only 2012-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
```

```
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
##
## Feature Value      Counter   Percentage
## -----
## 00 - Unknown       884       3.1604
## 01 - Exist          24005      85.8210
## 02 - Non-existent   1080       3.8611
## 03 - Obscured        1891       6.7606
## 04 - Faded           111       0.3968
```

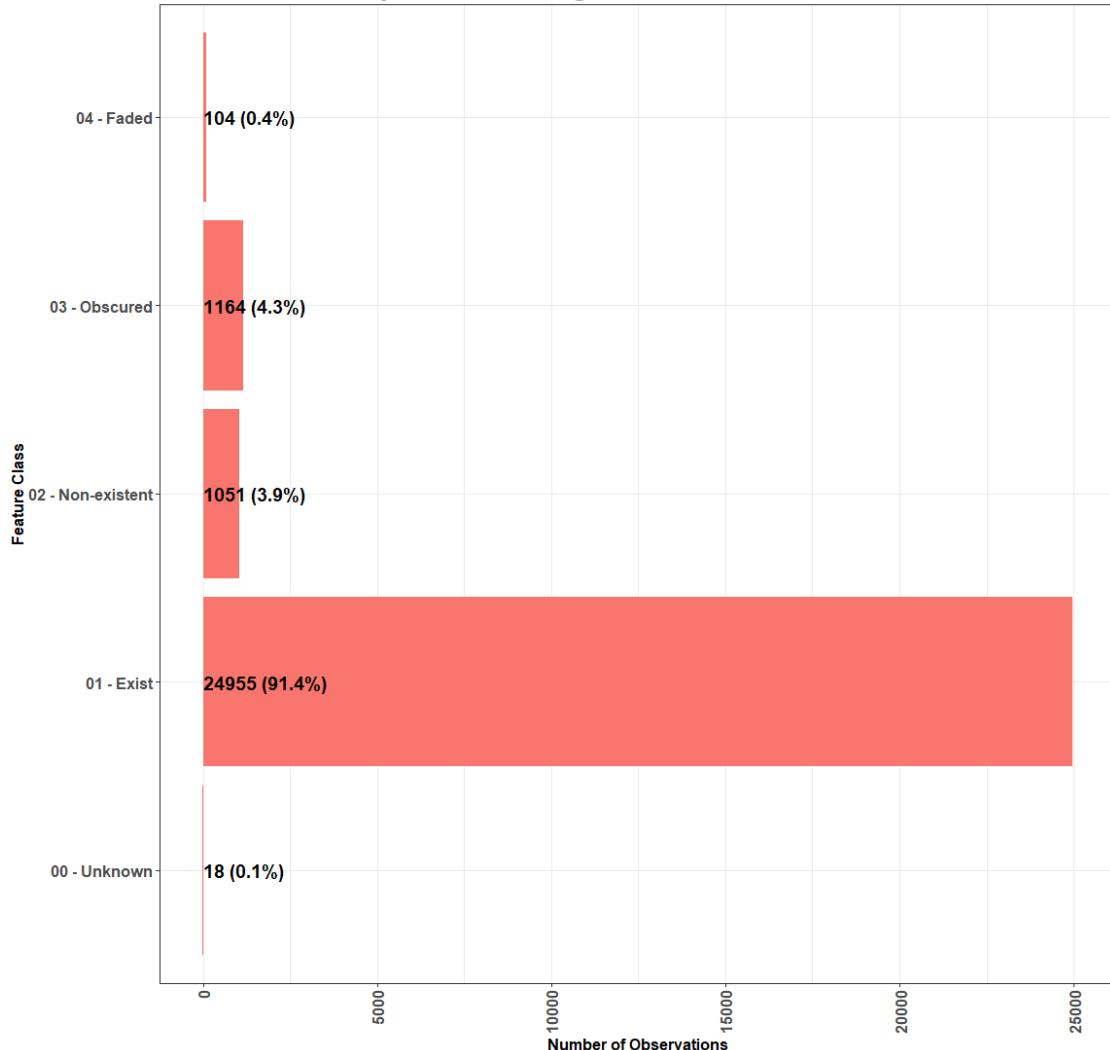
Plot of Feature:ROAD_PAVEMENT_MARKINGS Data:All 2013-Only 2013-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  
## DATA:All 2014-Only 2014-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS  
##  
## Feature Value Counter Percentage  
## -----
```

## 00 - Unknown	18	0.0660
## 01 - Exist	24955	91.4371
## 02 - Non-existent	1051	3.8509
## 03 - Obscured	1164	4.2650
## 04 - Faded	104	0.3811

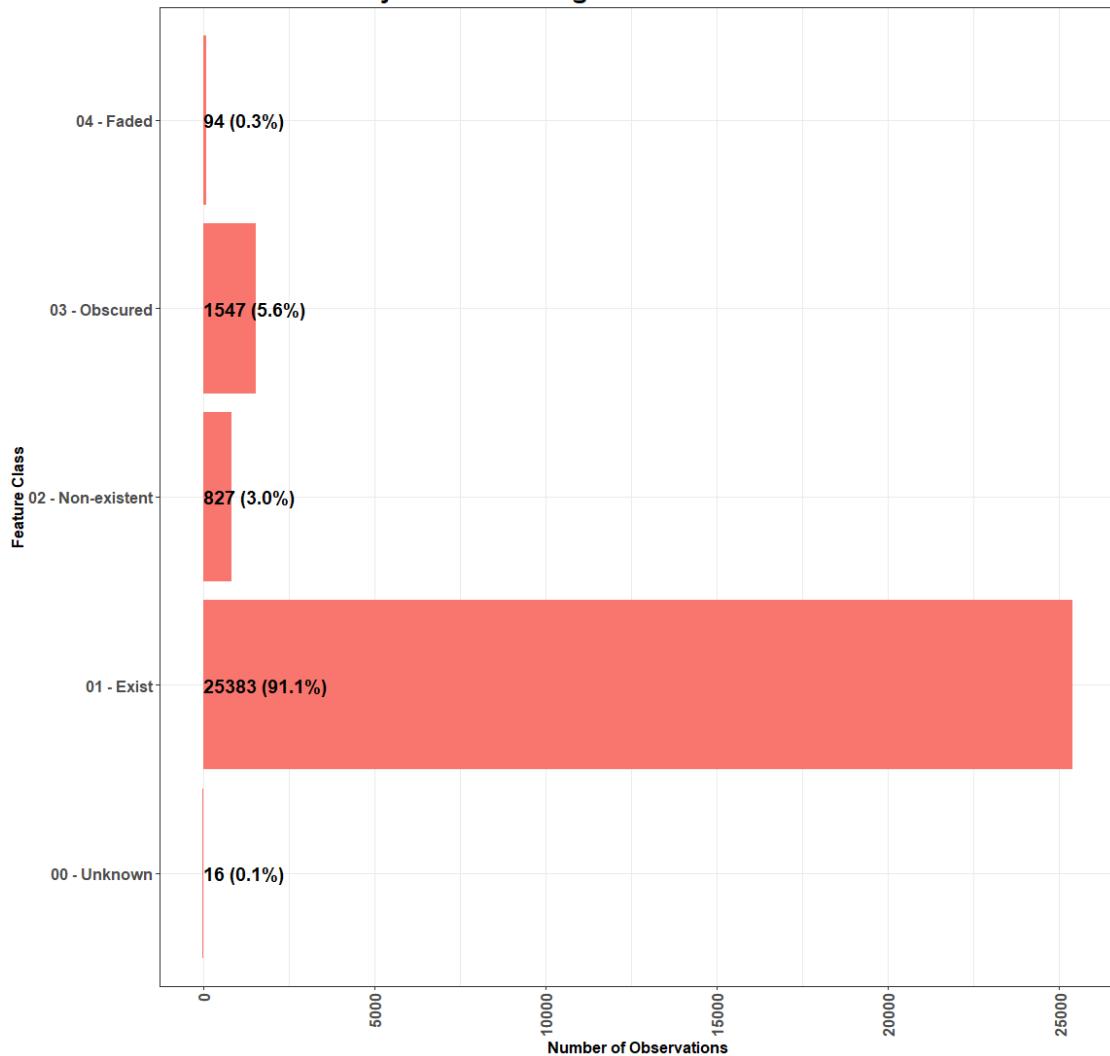
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2014-Only 2014-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
```

```
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 16 0.0574
## 01 - Exist 25383 91.0862
## 02 - Non-existent 827 2.9677
## 03 - Obscured 1547 5.5514
## 04 - Faded 94 0.3373
```

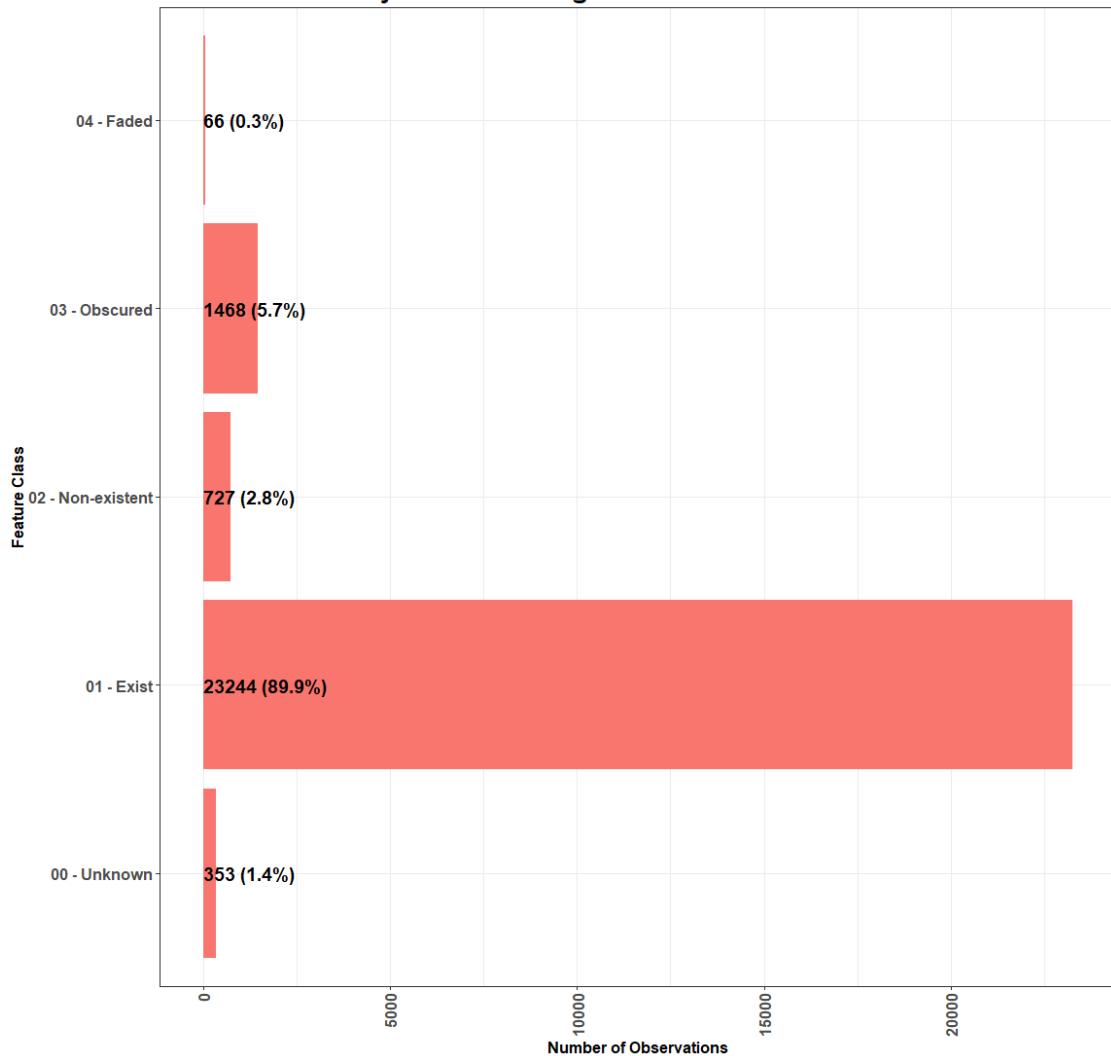
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
```

```
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS
##
## Feature Value      Counter    Percentage
## ----- -----
## 00 - Unknown        353       1.3651
## 01 - Exist          23244      89.8909
## 02 - Non-existent    727       2.8115
## 03 - Obscured        1468      5.6772
## 04 - Faded            66       0.2552
```

Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 5  

##  

## TOP 100 FEATURES OF ROAD_PAVEMENT_MARKINGS  

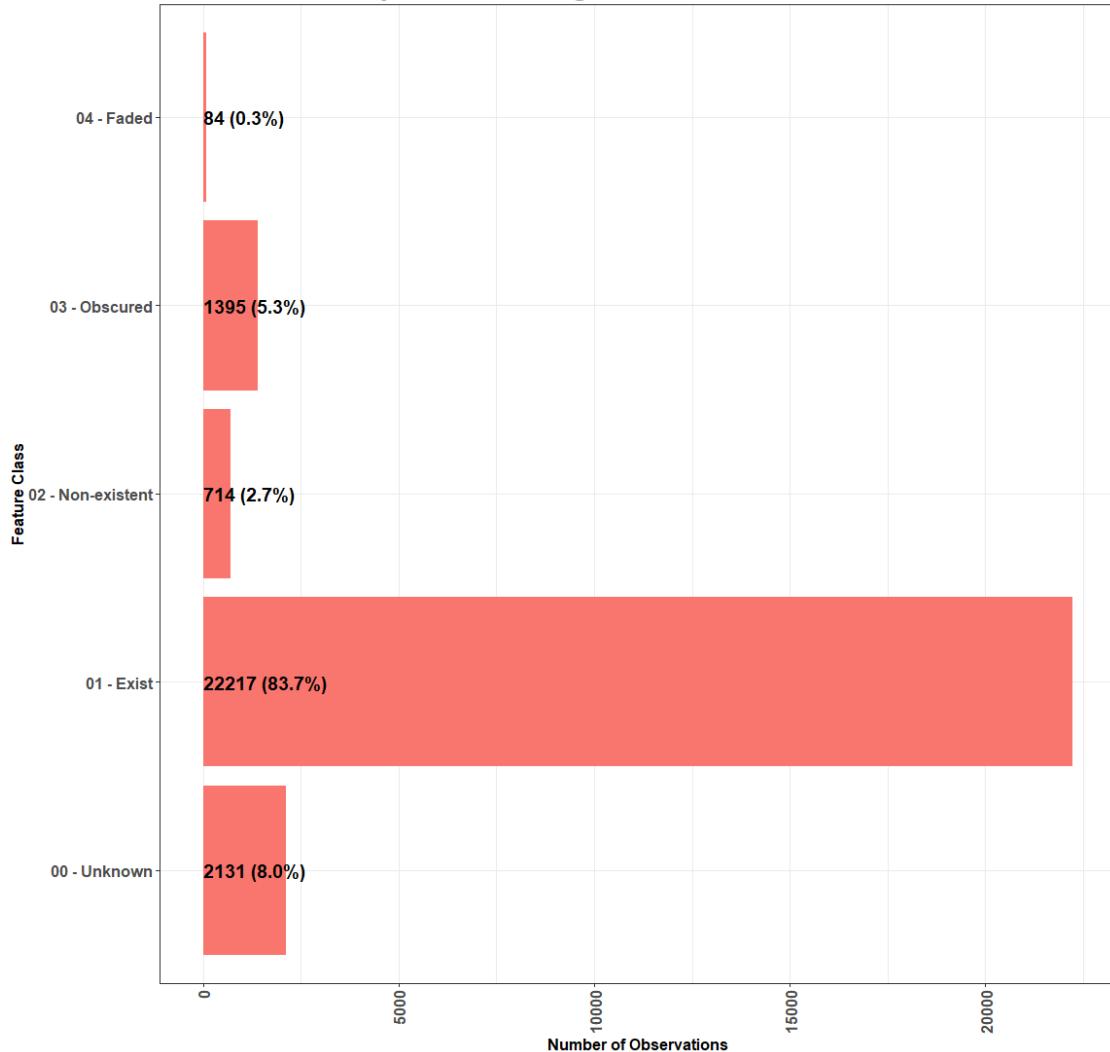
##  

## Feature Value      Counter      Percentage  

## -----
```

## 00 - Unknown	2131	8.0291
## 01 - Exist	22217	83.7082
## 02 - Non-existent	714	2.6902
## 03 - Obscured	1395	5.2560
## 04 - Faded	84	0.3165

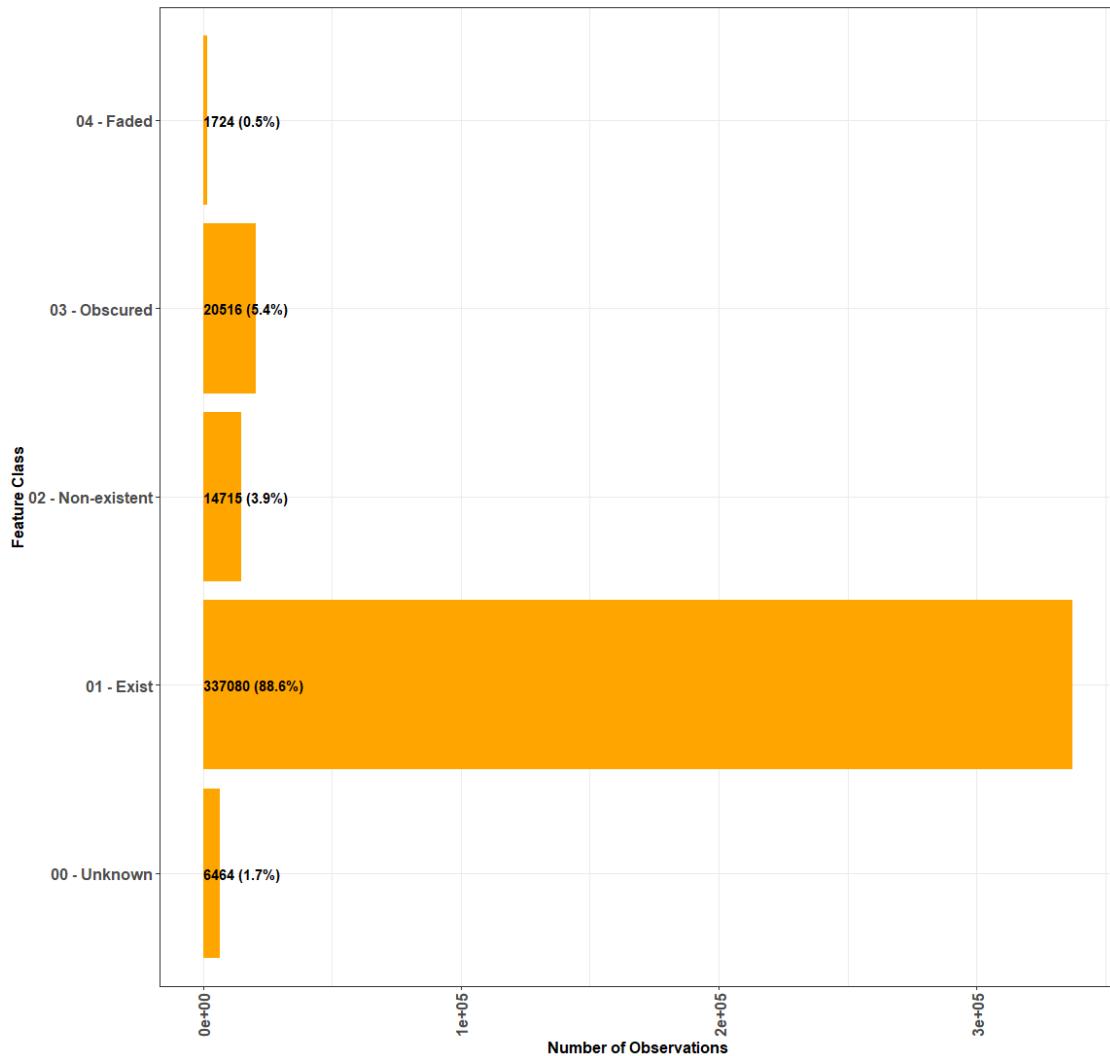
Plot of Feature:ROAD_PAVEMENT_MARKINGS
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:ROAD_PAVEMENT_MARKINGS
## ALL DATA...
## =====
## Number of Blank Values:0
##
## Summary per Data File:
```

```
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                               25669                           26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                               26073                           27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                               28502                           28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                               27483                           27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                               26530                           27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                               27292                           27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                               25858                           26541
##
##
## Summary as Factor Feature:
## Number of Features: 5
```

Plot of Feature:ROAD_PAVEMENT_MARKINGS All Data



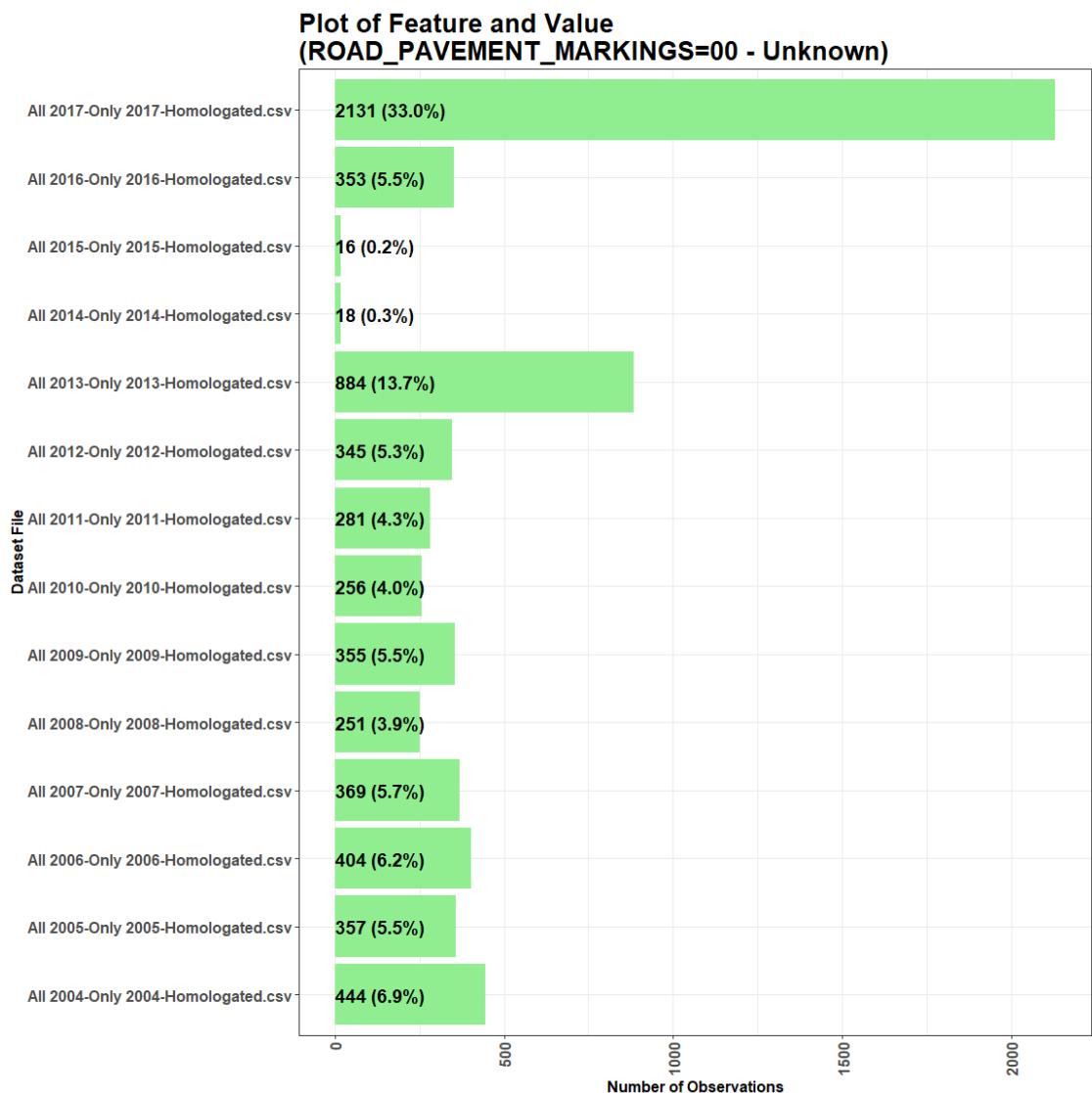
```
## [1] "TOP 100 FEATURES COUNTERS OF:ROAD_PAVEMENT_MARKINGS"
```

Feature Value	Counter	Percentage
00 - Unknown	6464	1.6988
01 - Exist	337080	88.5889
02 - Non-existent	14715	3.8673
03 - Obscured	20516	5.3919
04 - Faded	1724	0.4531

15.1 ROAD_PAVEMENT_MARKINGS = "00 - Unknown"

```
##  
## ======  
## CHECKING FEATURE AND VALUE (ROAD_PAVEMENT_MARKINGS=00 - Unknown)
```

```
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 444 357  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 404 369  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 251 355  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 256 281  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 345 884  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 18 16  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 353 2131
```



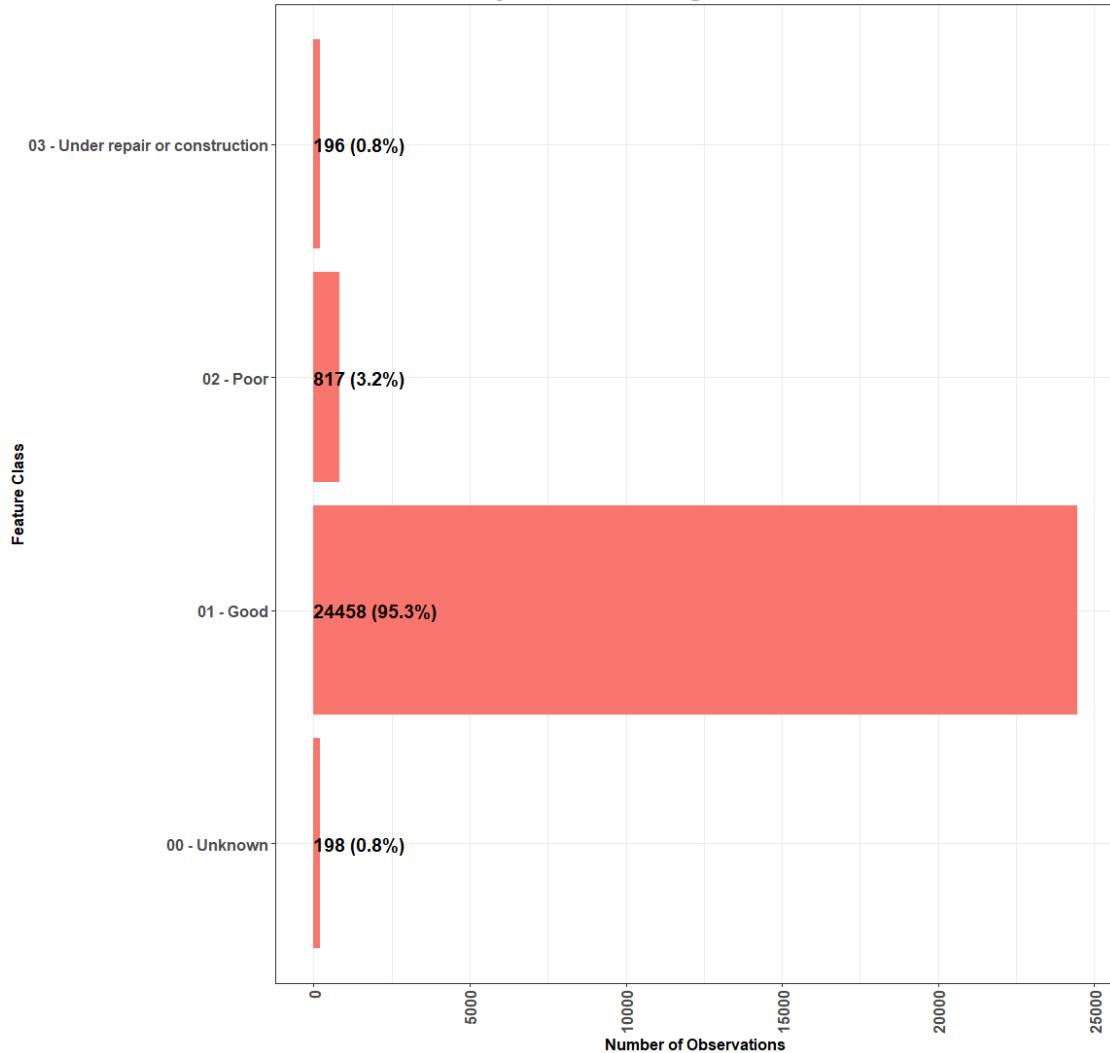
DATASET FILE	COUNTER OF (ROAD_PAVEMENT_MARKINGS=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	444	6.8688	
All 2005-Only 2005-Homologated.csv	357	5.5229	
All 2006-Only 2006-Homologated.csv	404	6.2500	
All 2007-Only 2007-Homologated.csv	369	5.7085	
All 2008-Only 2008-Homologated.csv	251	3.8830	

All 2009-Only 2009-Homologated.csv	355	5.4920
All 2010-Only 2010-Homologated.csv	256	3.9604
All 2011-Only 2011-Homologated.csv	281	4.3472
All 2012-Only 2012-Homologated.csv	345	5.3373
All 2013-Only 2013-Homologated.csv	884	13.6757
All 2014-Only 2014-Homologated.csv	18	0.2785
All 2015-Only 2015-Homologated.csv	16	0.2475
All 2016-Only 2016-Homologated.csv	353	5.4610
All 2017-Only 2017-Homologated.csv	2131	32.9672

16. Road Condition (ROAD_CONDITION)

```
##
## -----
## CHECKING FEATURE:ROAD_CONDITION
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
##
## TOP 100 FEATURES OF ROAD_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 198 0.7714
## 01 - Good 24458 95.2822
## 02 - Poor 817 3.1828
## 03 - Under repair or construction 196 0.7636
```

Plot of Feature:ROAD_CONDITION
Data:All 2004-Only 2004-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_CONDITION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF ROAD_CONDITION  

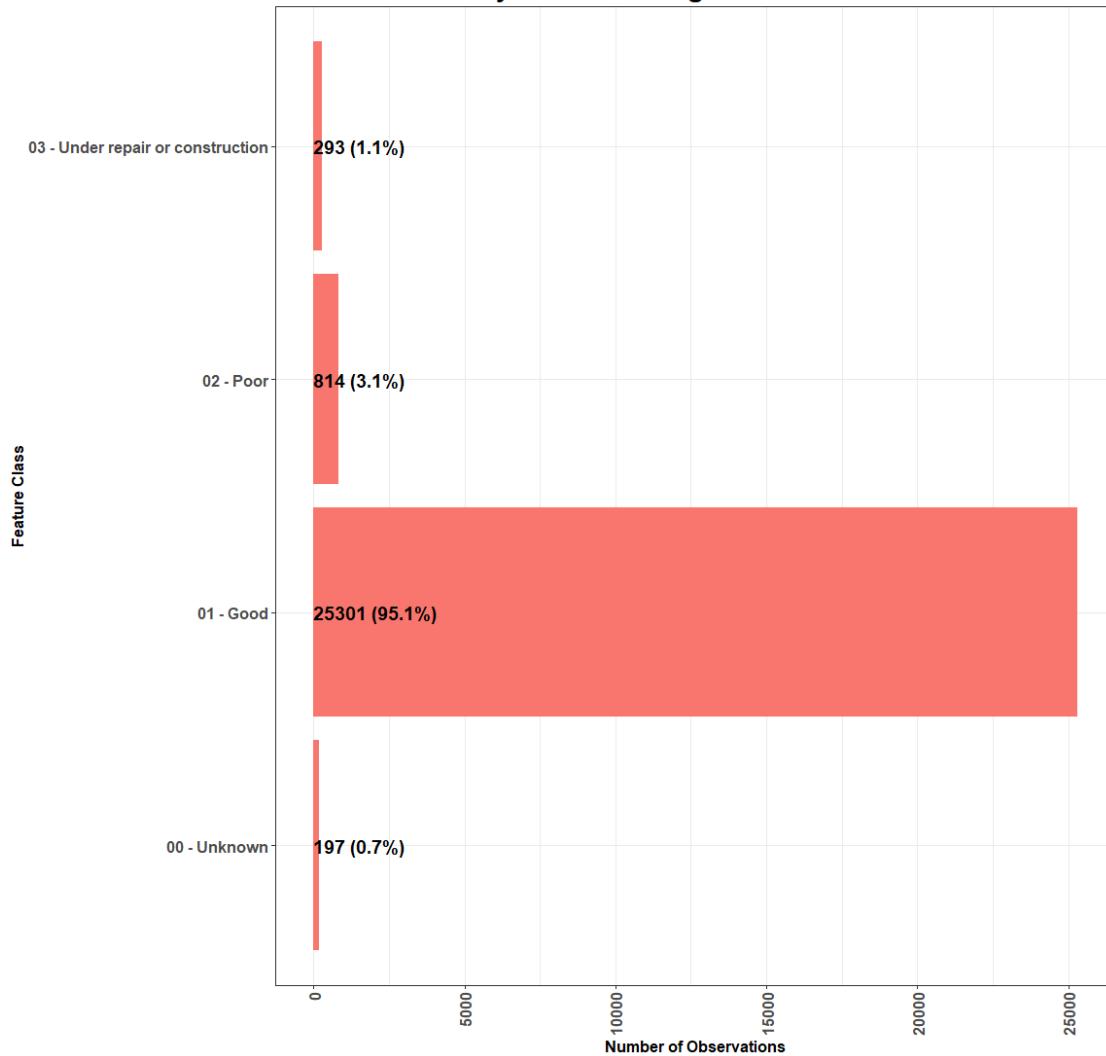
##  

## Feature Value Counter Percentage  

## -----
```

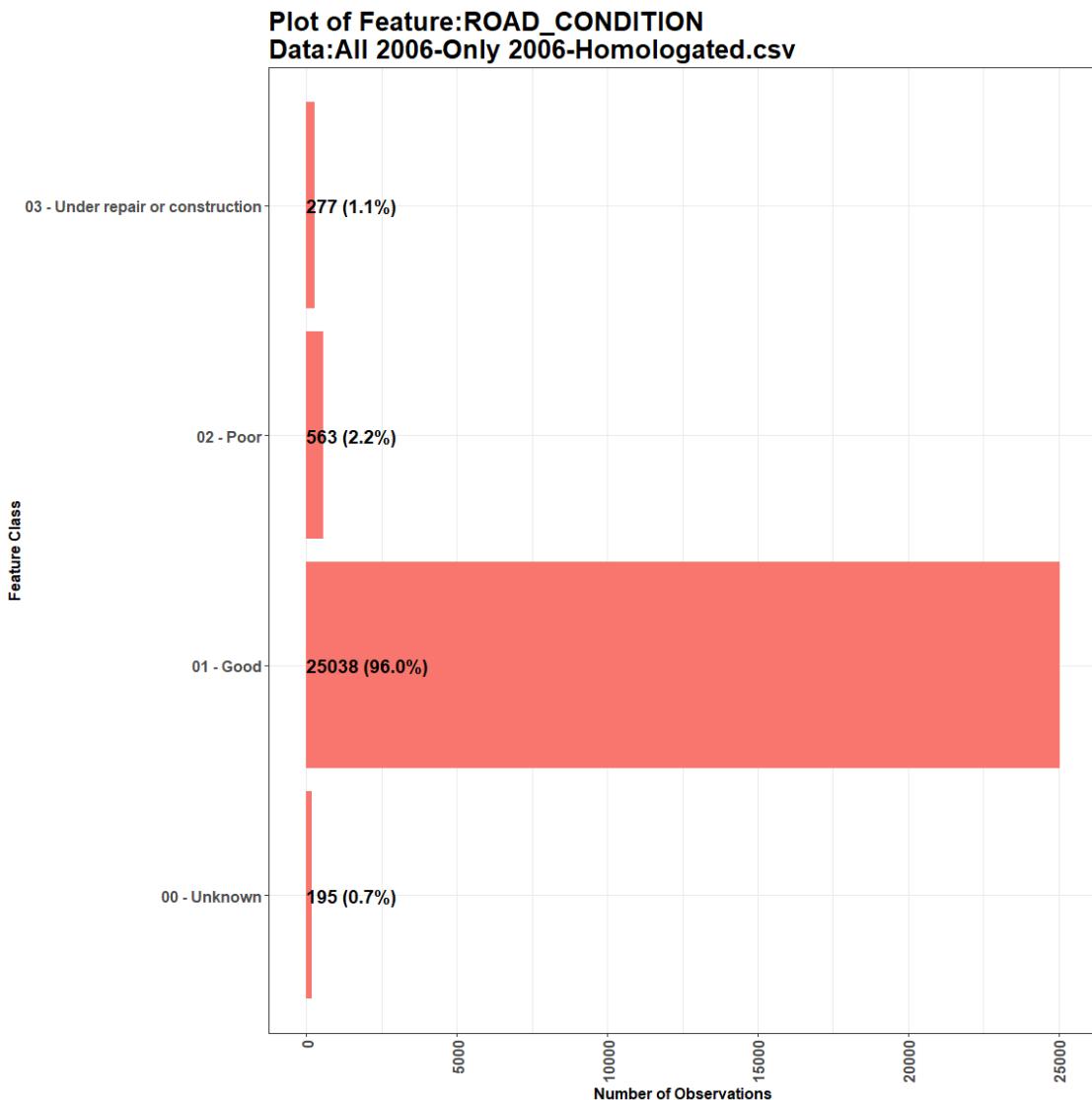
## 00 - Unknown	197	0.7405
## 01 - Good	25301	95.0987
## 02 - Poor	814	3.0596
## 03 - Under repair or construction	293	1.1013

**Plot of Feature:ROAD_CONDITION
Data:All 2005-Only 2005-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_CONDITION
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##  
## TOP 100 FEATURES OF ROAD_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 195 0.7479  
## 01 - Good 25038 96.0304  
## 02 - Poor 563 2.1593  
## 03 - Under repair or construction 277 1.0624
```



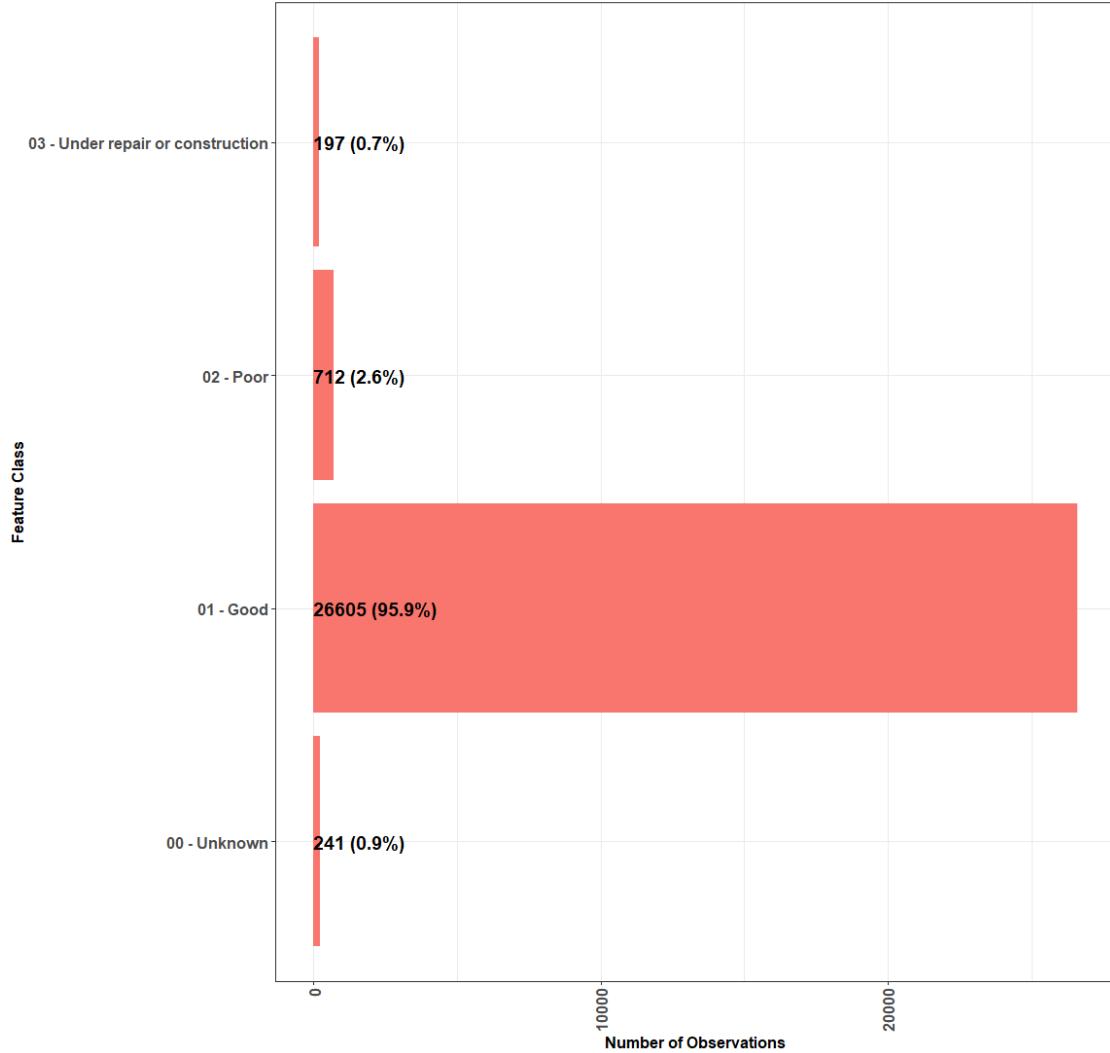
```
##  
## -----  
## CHECKING FEATURE:ROAD_CONDITION  
## DATA:All 2007-Only 2007-Homologated.csv...  
##
```

```

## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
##
## TOP 100 FEATURES OF ROAD_CONDITION
##
## Feature Value          Counter   Percentage
## -----                  -----      -----
## 00 - Unknown            241       0.8683
## 01 - Good               26605     95.8566
## 02 - Poor               712       2.5653
## 03 - Under repair or construction 197       0.7098

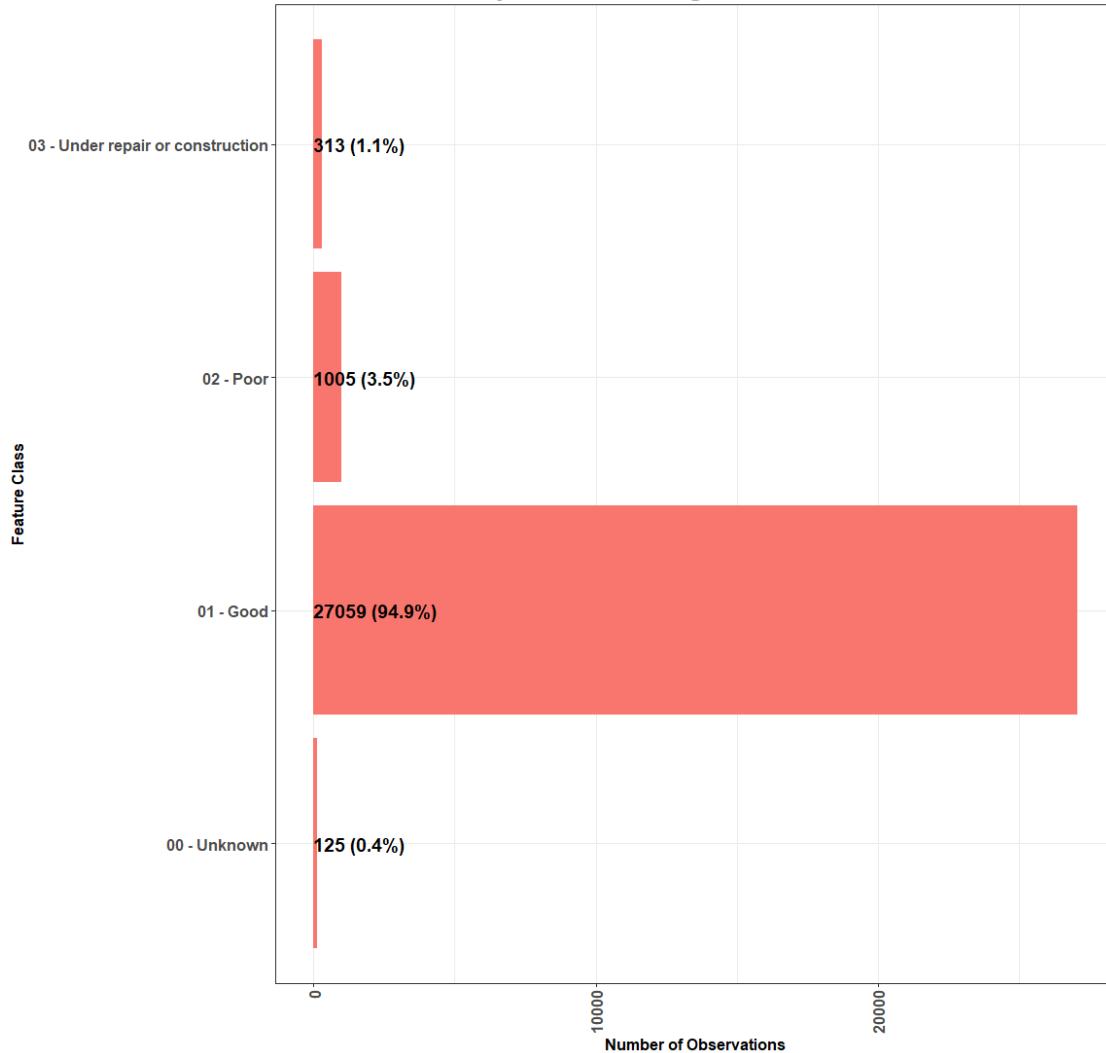
```

**Plot of Feature:ROAD_CONDITION
Data:All 2007-Only 2007-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:ROAD_CONDITION  
## DATA:All 2008-Only 2008-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF ROAD_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 125 0.4386  
## 01 - Good 27059 94.9372  
## 02 - Poor 1005 3.5261  
## 03 - Under repair or construction 313 1.0982
```

Plot of Feature:ROAD_CONDITION
Data:All 2008-Only 2008-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_CONDITION  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF ROAD_CONDITION  

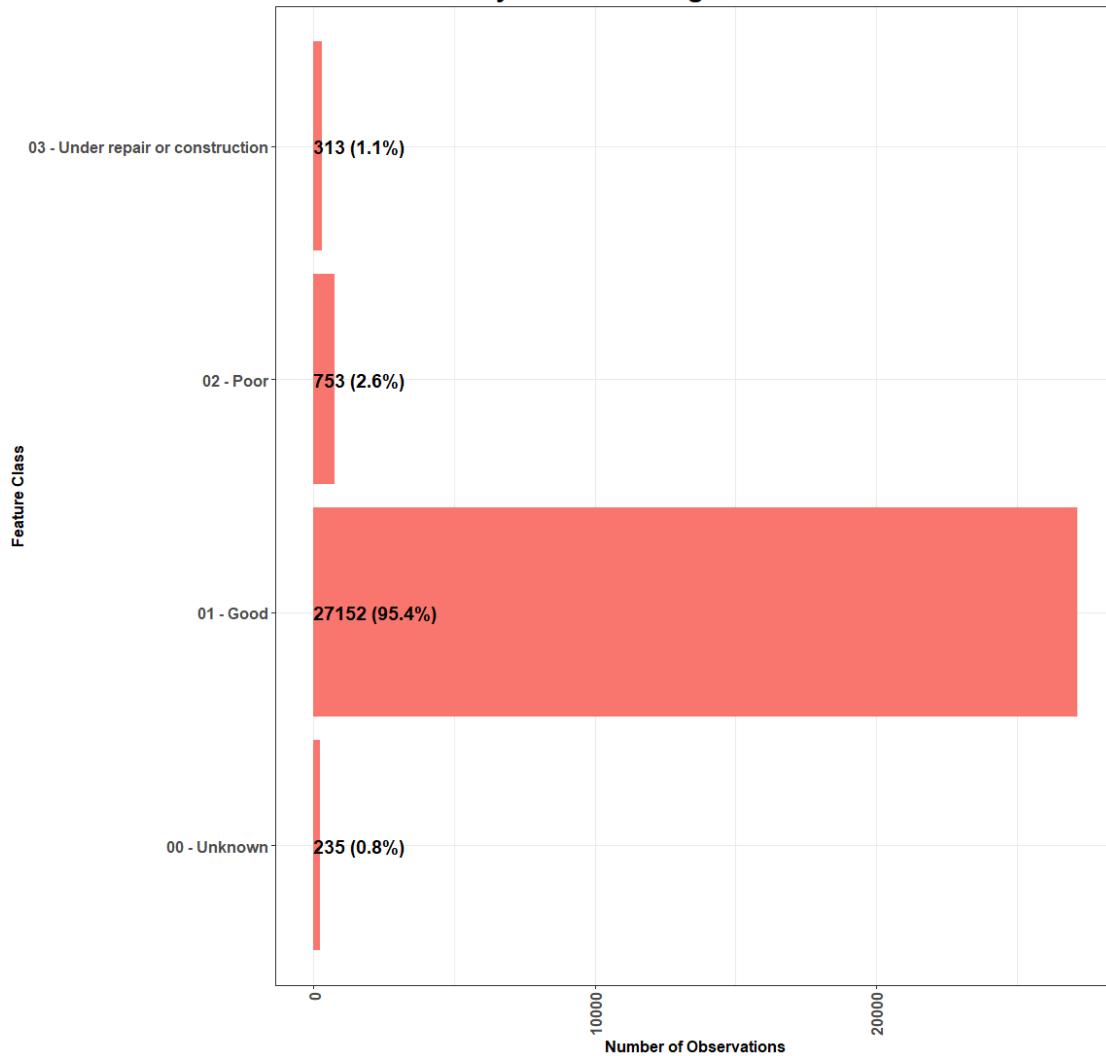
##  

## Feature Value Counter Percentage  

## -----
```

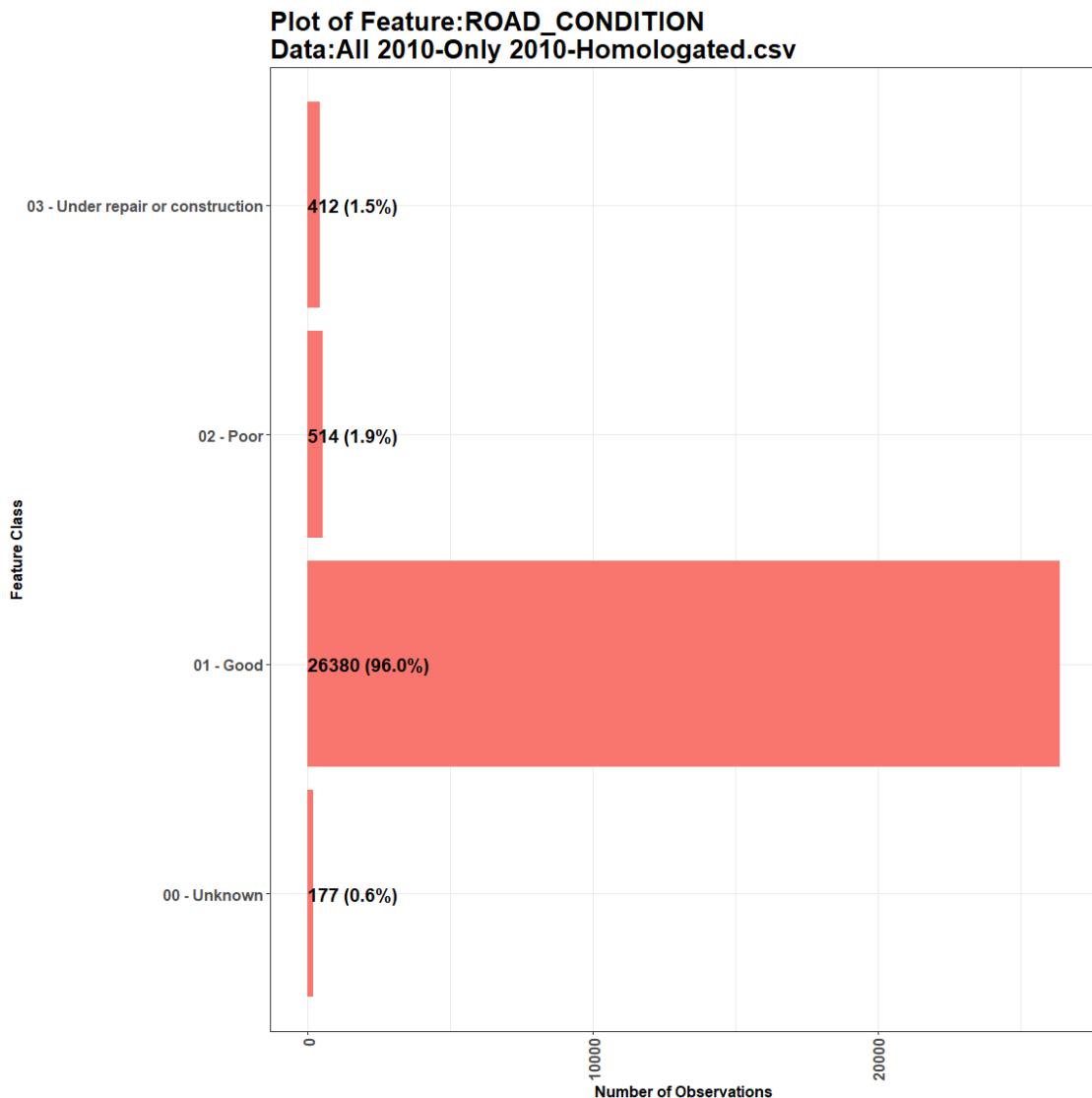
## 00 - Unknown	235	0.8259
## 01 - Good	27152	95.4275
## 02 - Poor	753	2.6465
## 03 - Under repair or construction	313	1.1001

**Plot of Feature:ROAD_CONDITION
Data:All 2009-Only 2009-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_CONDITION
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##  
## TOP 100 FEATURES OF ROAD_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 177 0.644  
## 01 - Good 26380 95.987  
## 02 - Poor 514 1.870  
## 03 - Under repair or construction 412 1.499
```

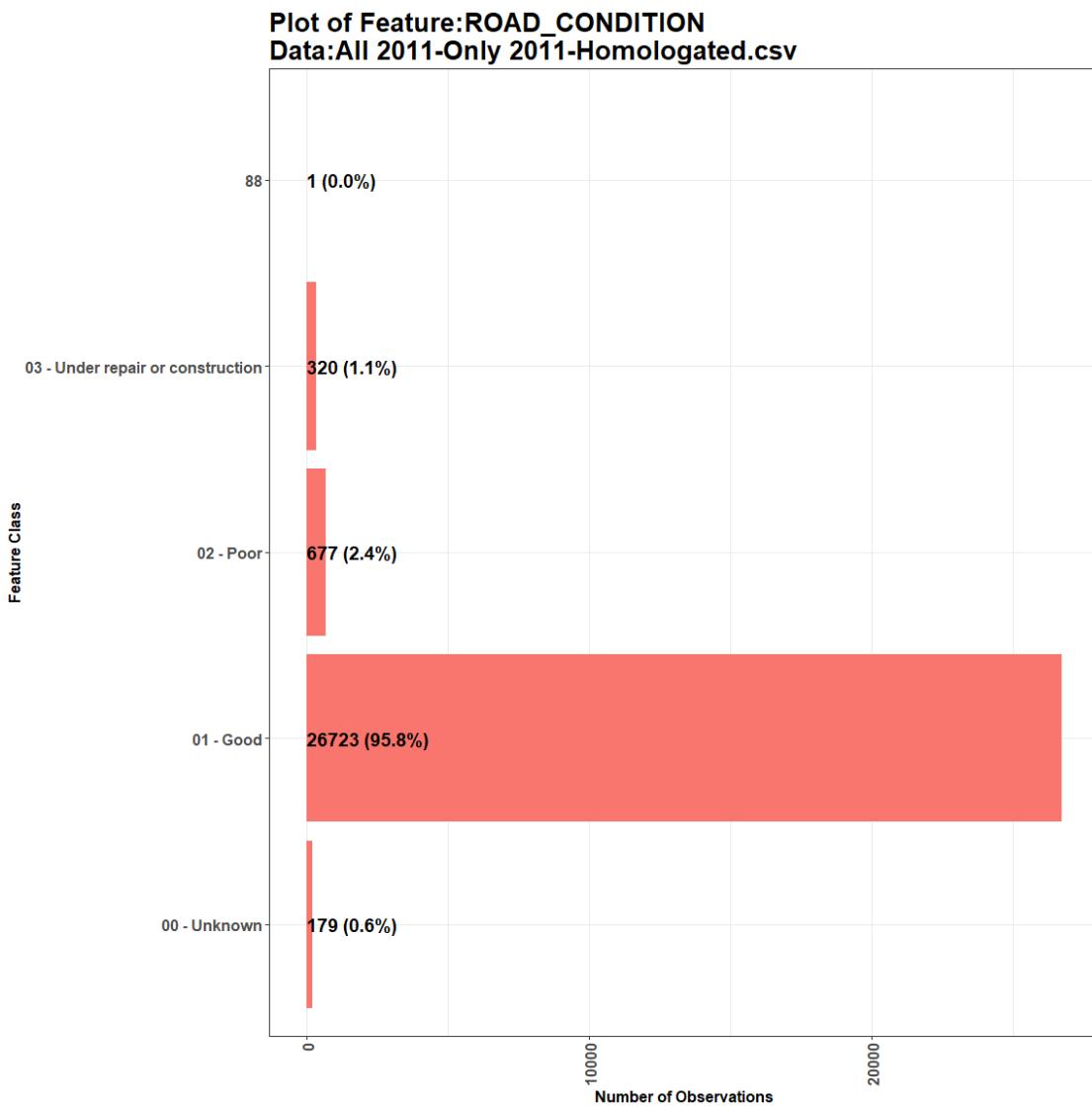


```
##  
## -----  
## CHECKING FEATURE:ROAD_CONDITION  
## DATA:All 2011-Only 2011-Homologated.csv...  
##
```

```

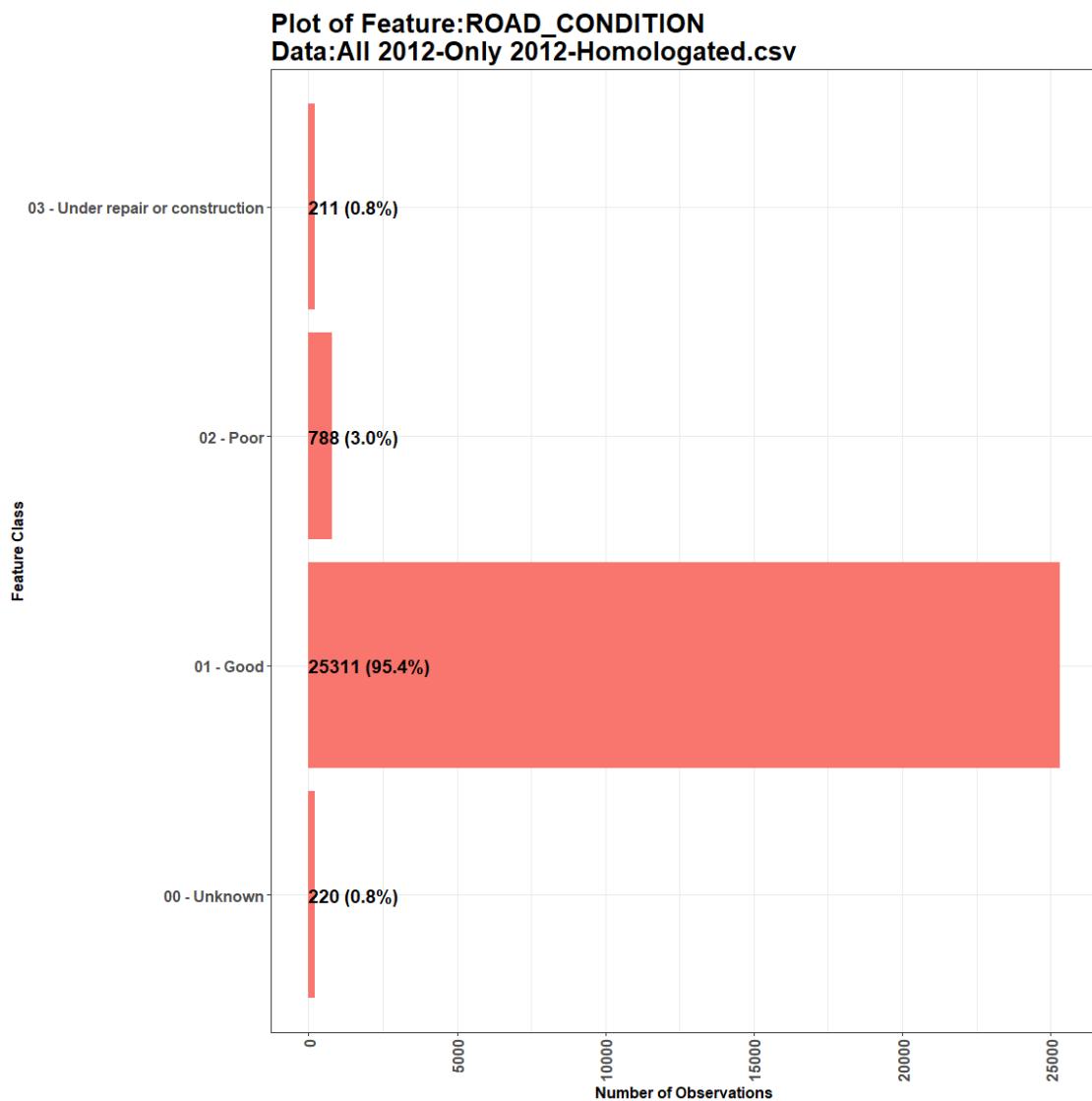
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 5
##
## TOP 100 FEATURES OF ROAD_CONDITION
##
## Feature Value          Counter   Percentage
## -----                  -----   -----
## 00 - Unknown           179      0.6416
## 01 - Good              26723    95.7814
## 02 - Poor              677      2.4265
## 03 - Under repair or construction 320      1.1470
## 88                      1        0.0036

```





```
##  
## -----  
## CHECKING FEATURE:ROAD_CONDITION  
## DATA:All 2012-Only 2012-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF ROAD_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 220 0.8292  
## 01 - Good 25311 95.4052  
## 02 - Poor 788 2.9702  
## 03 - Under repair or construction 211 0.7953
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_CONDITION  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF ROAD_CONDITION  

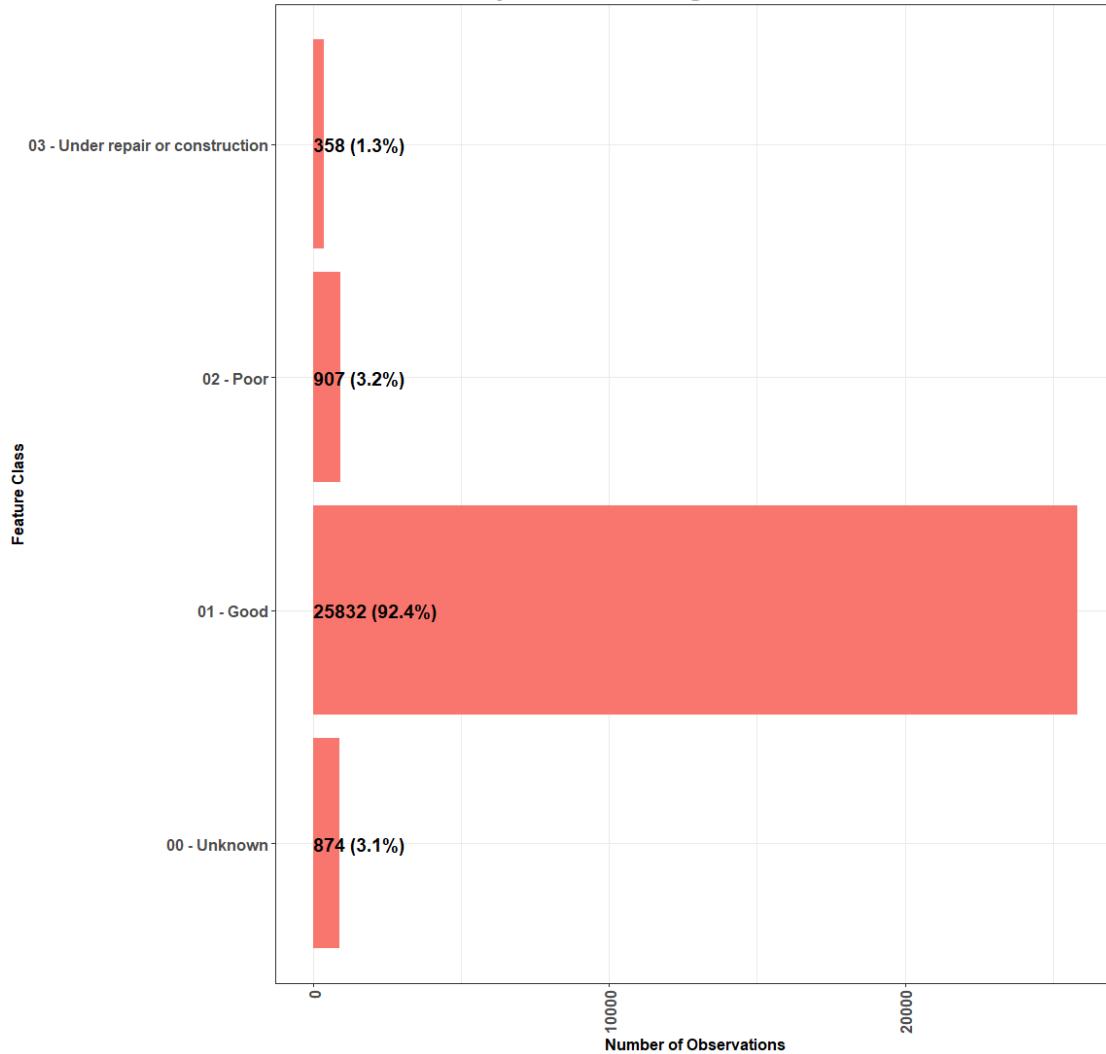
##  

## Feature Value Counter Percentage  

## -----
```

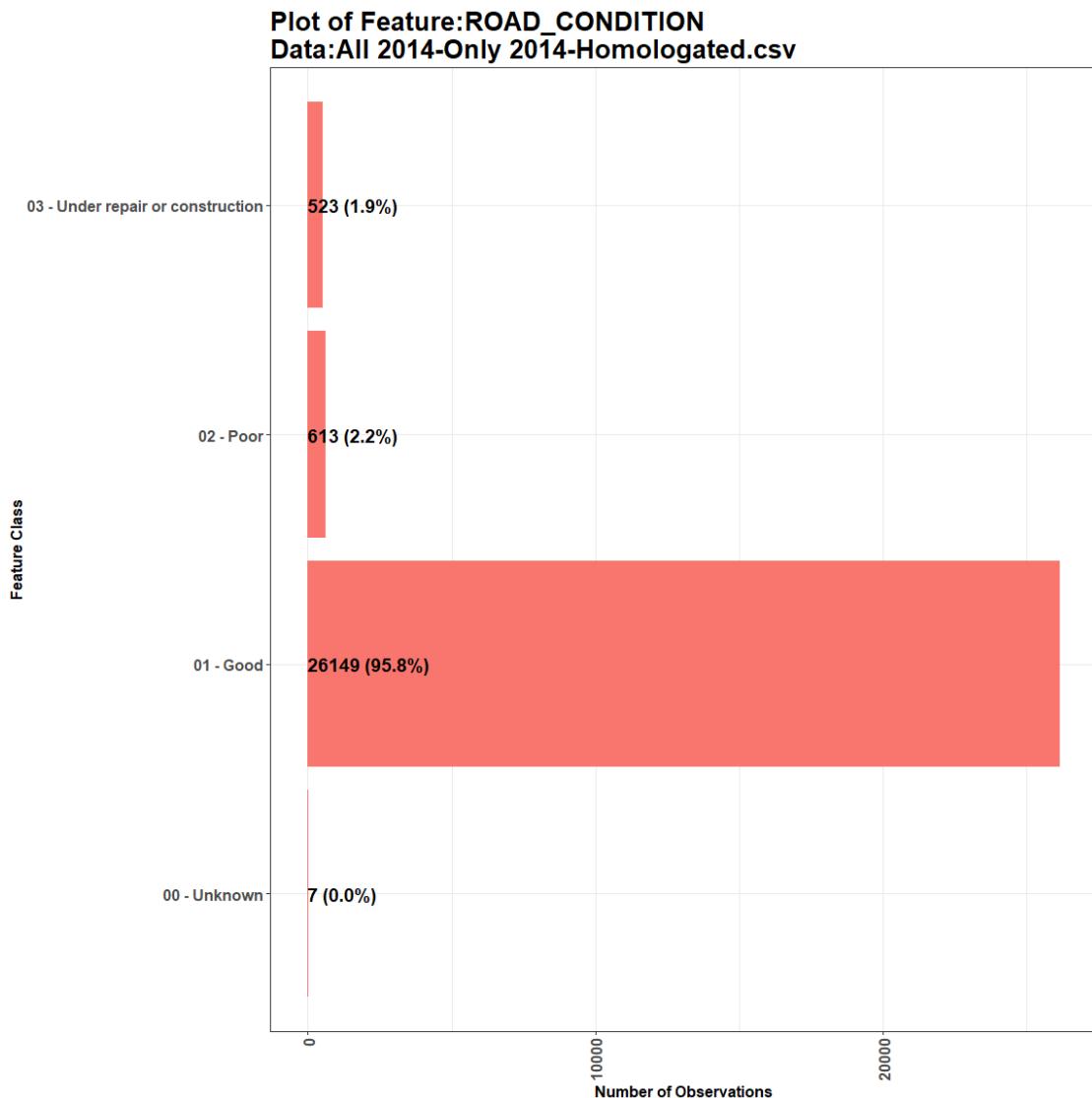
## 00 - Unknown	874	3.125
## 01 - Good	25832	92.353
## 02 - Poor	907	3.243
## 03 - Under repair or construction	358	1.280

**Plot of Feature:ROAD_CONDITION
Data:All 2013-Only 2013-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:ROAD_CONDITION
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
```

```
##
## TOP 100 FEATURES OF ROAD_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 7 0.0256
## 01 - Good 26149 95.8120
## 02 - Poor 613 2.2461
## 03 - Under repair or construction 523 1.9163
```



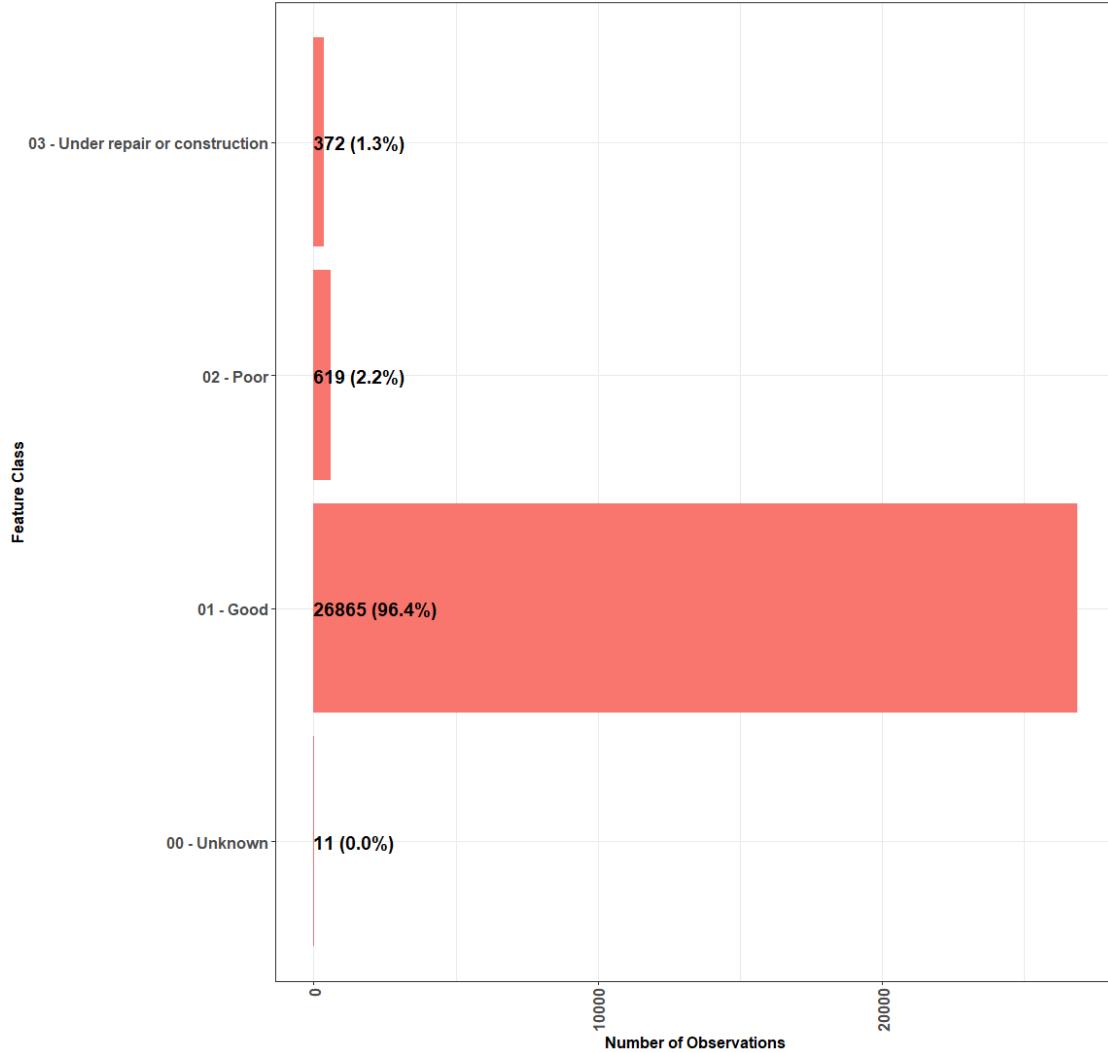
```
##
## -----
## CHECKING FEATURE:ROAD_CONDITION
## DATA:All 2015-Only 2015-Homologated.csv...
##
```

```

## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 4
##
## TOP 100 FEATURES OF ROAD_CONDITION
##
## Feature Value          Counter   Percentage
## -----                  -----      -----
## 00 - Unknown            11        0.0395
## 01 - Good               26865     96.4043
## 02 - Poor               619       2.2213
## 03 - Under repair or construction 372       1.3349

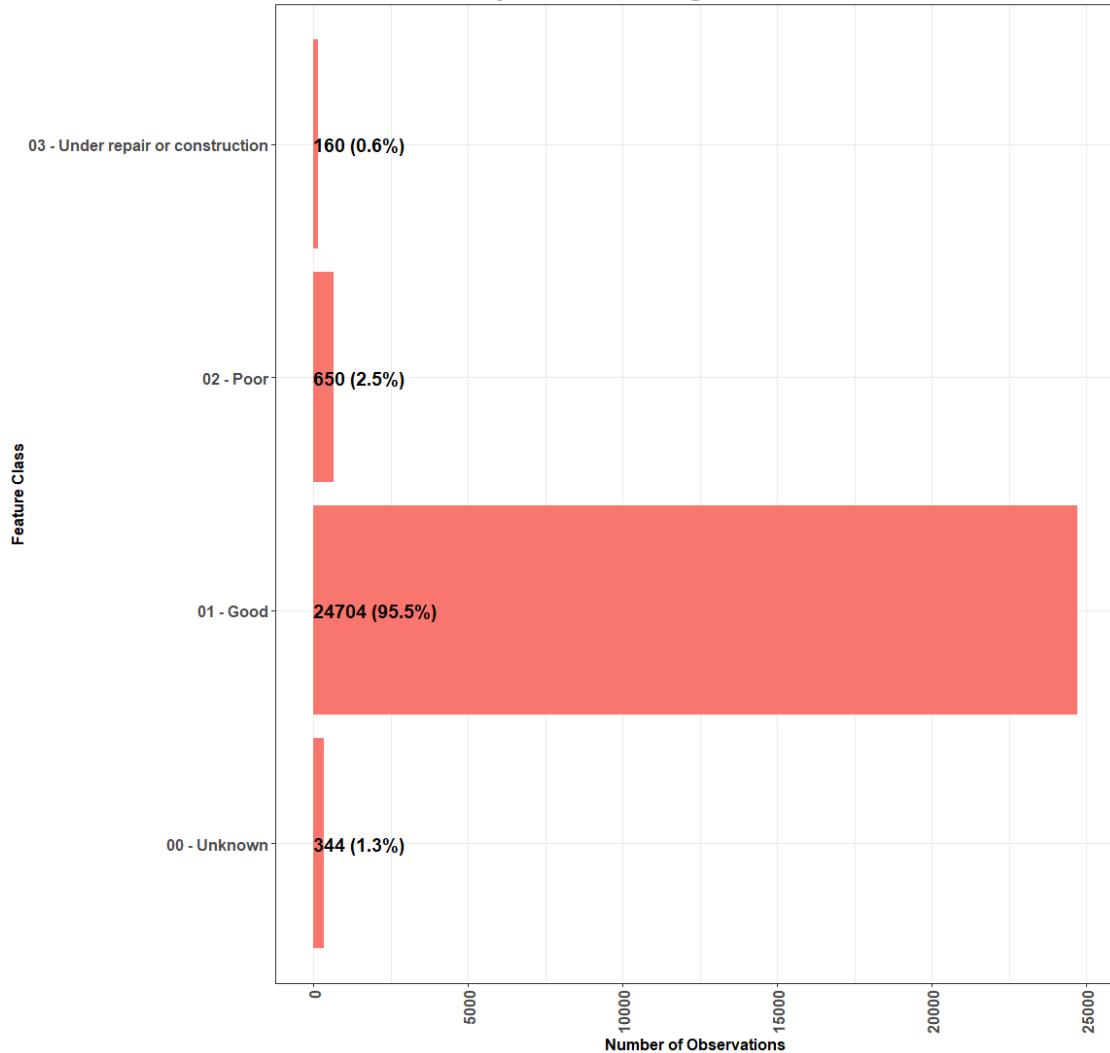
```

**Plot of Feature:ROAD_CONDITION
Data:All 2015-Only 2015-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:ROAD_CONDITION  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 4  
##  
## TOP 100 FEATURES OF ROAD_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 344 1.3303  
## 01 - Good 24704 95.5372  
## 02 - Poor 650 2.5137  
## 03 - Under repair or construction 160 0.6188
```

Plot of Feature:ROAD_CONDITION
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:ROAD_CONDITION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 4  

##  

## TOP 100 FEATURES OF ROAD_CONDITION  

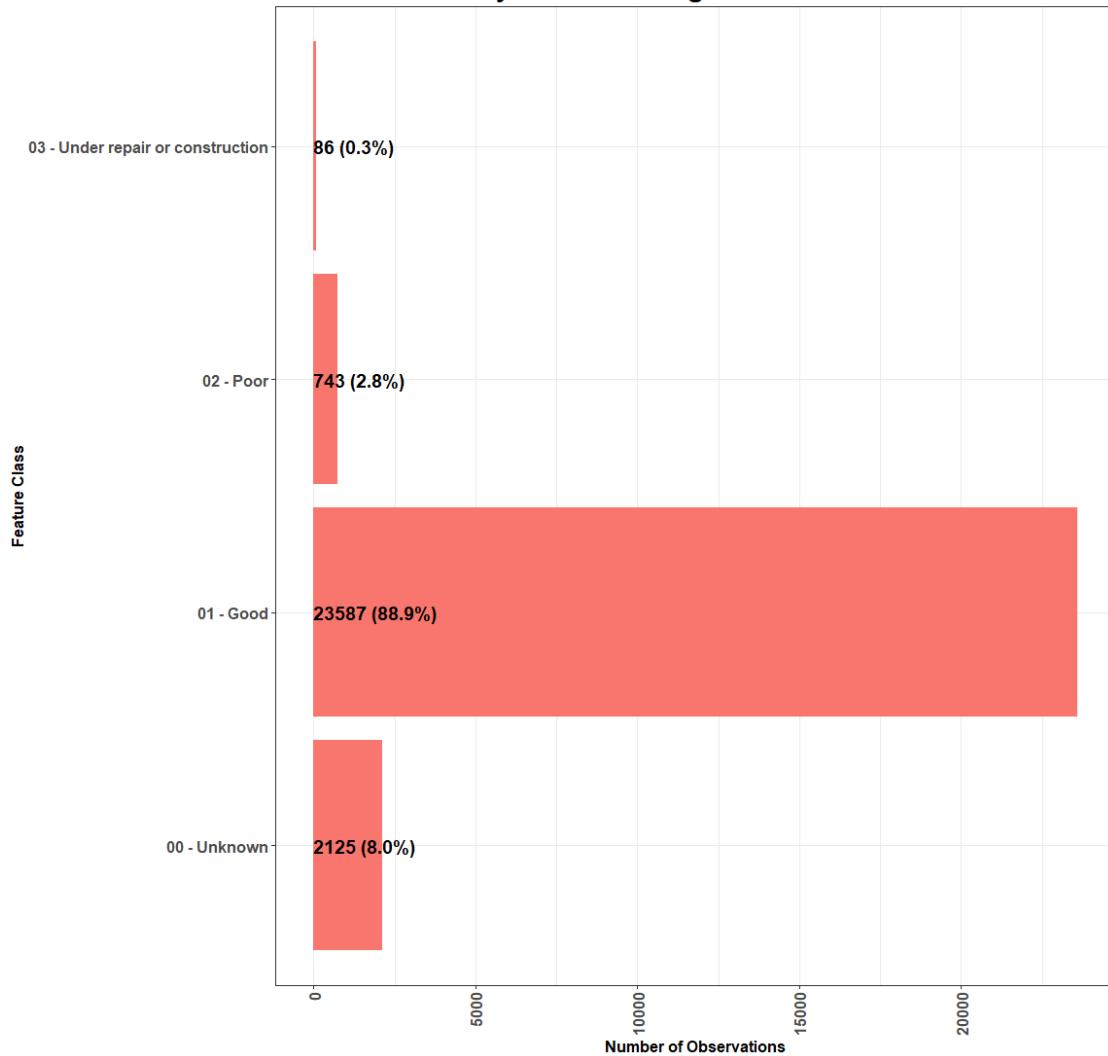
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	2125	8.007
## 01 - Good	23587	88.870
## 02 - Poor	743	2.799
## 03 - Under repair or construction	86	0.324

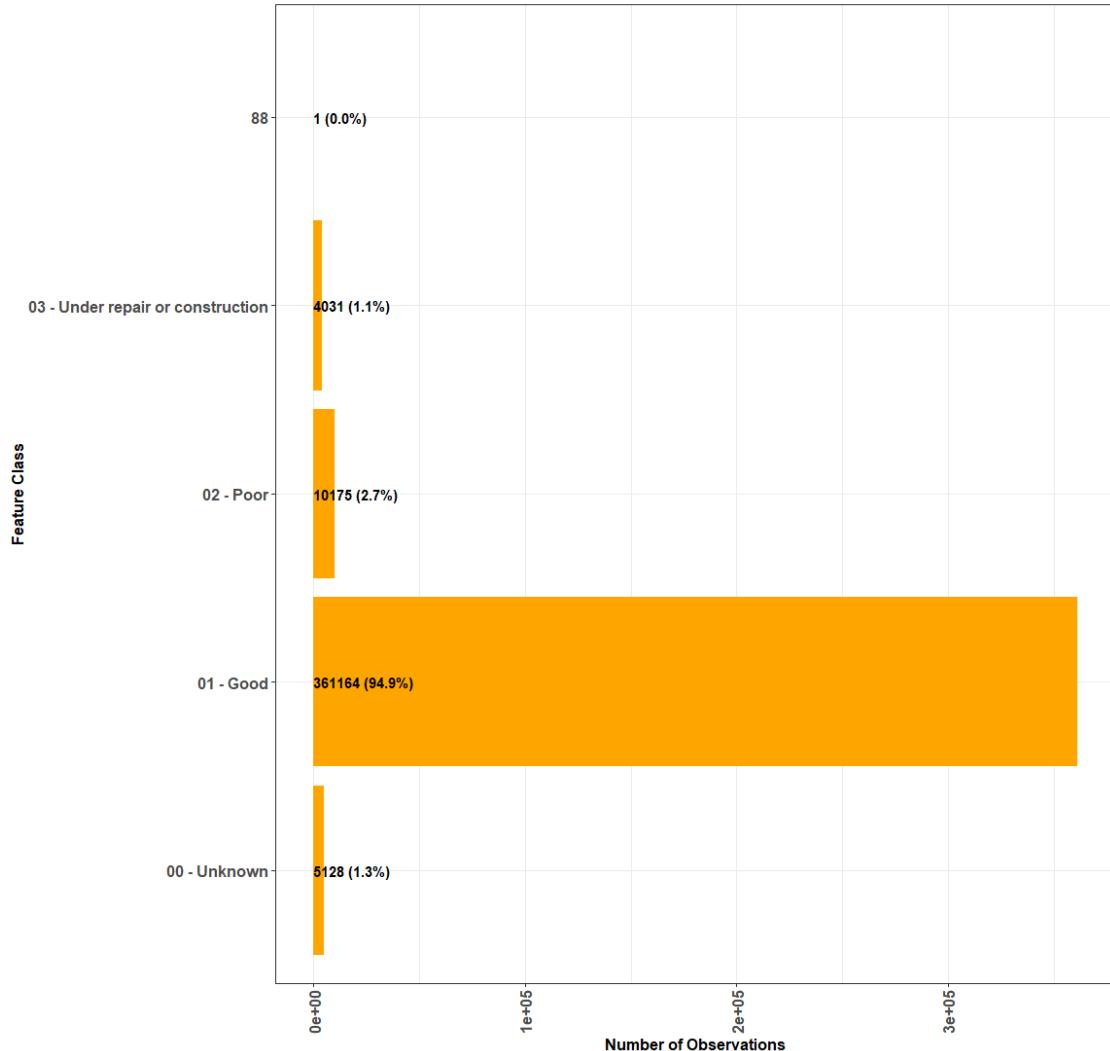
**Plot of Feature:ROAD_CONDITION
Data:All 2017-Only 2017-Homologated.csv**



```
##
## =====
## FINAL INFO CHECKING FEATURE:ROAD_CONDITION
## ALL DATA...
## =====
## Number of Blank Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
```

```
##          25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##          26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858          26541
##
##
## Summary as Factor Feature:
## Number of Features: 5
```

**Plot of Feature:ROAD_CONDITION
All Data**



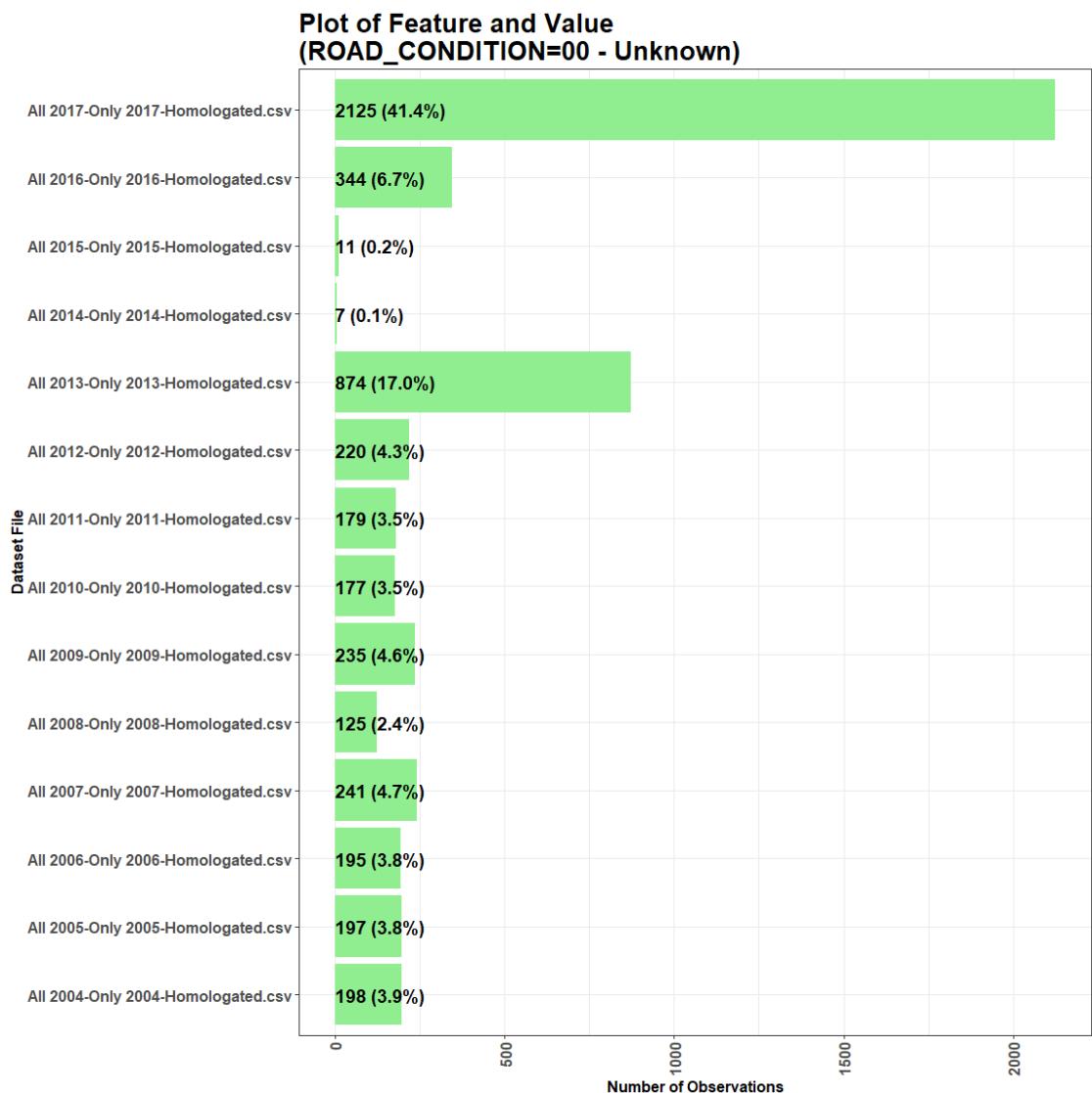
```
## [1] "TOP 100 FEATURES COUNTERS OF :ROAD_CONDITION"
```

Feature Value	Counter	Percentage
00 - Unknown	5128	1.3477
01 - Good	361164	94.9185
02 - Poor	10175	2.6741
03 - Under repair or construction	4031	1.0594
88	1	0.0003

16.1 ROAD_CONDITION = "00 - Unknown"

```
##  
## ======  
## CHECKING FEATURE AND VALUE (ROAD_CONDITION=00 - Unknown)
```

```
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 198 197  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 195 241  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 125 235  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 177 179  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 220 874  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 7 11  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 344 2125
```

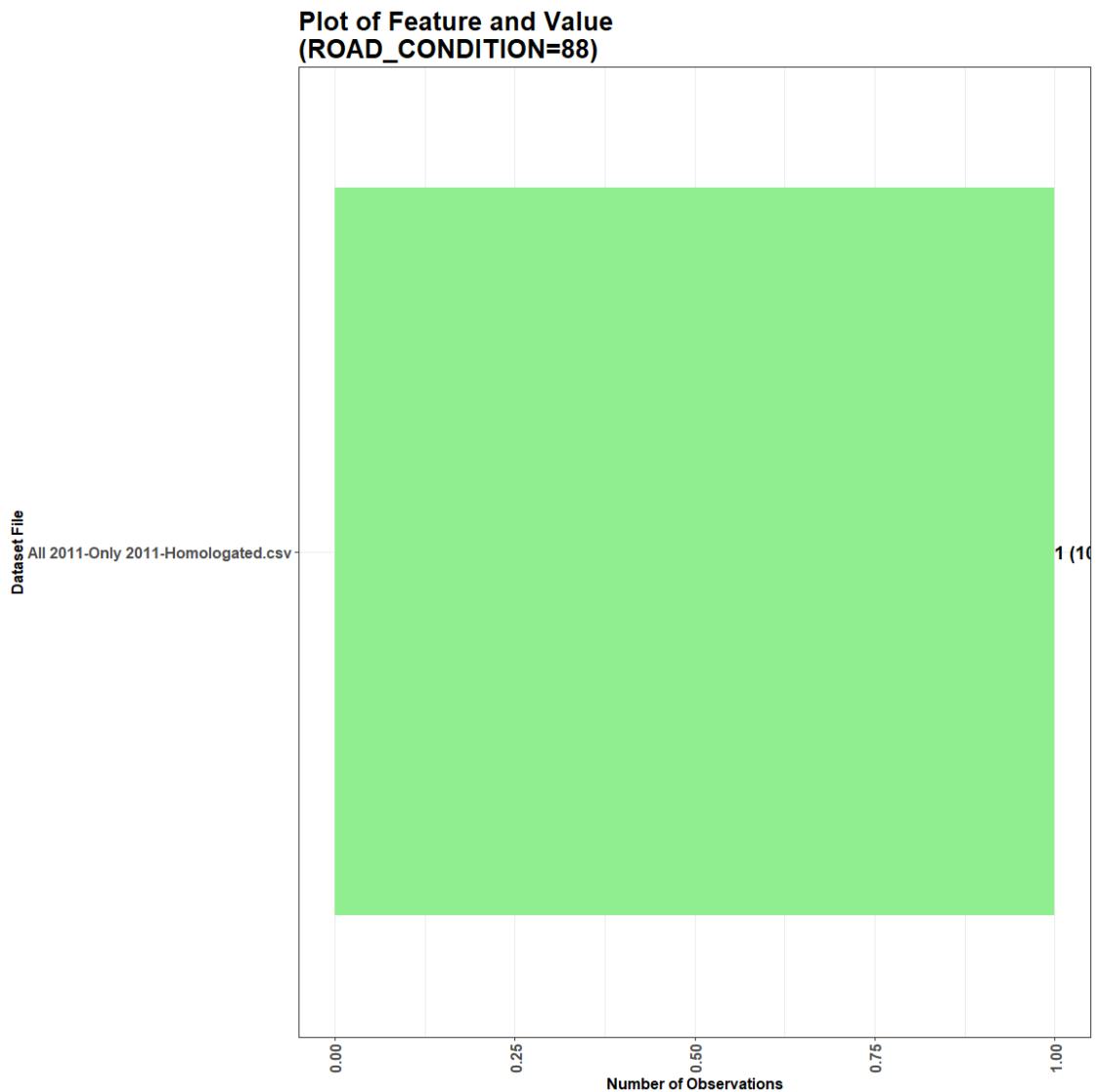


DATASET FILE	COUNTER OF (ROAD_CONDITION=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	198	3.8612	
All 2005-Only 2005-Homologated.csv	197	3.8417	
All 2006-Only 2006-Homologated.csv	195	3.8027	
All 2007-Only 2007-Homologated.csv	241	4.6997	
All 2008-Only 2008-Homologated.csv	125	2.4376	

All 2009-Only 2009-Homologated.csv	235	4.5827
All 2010-Only 2010-Homologated.csv	177	3.4516
All 2011-Only 2011-Homologated.csv	179	3.4906
All 2012-Only 2012-Homologated.csv	220	4.2902
All 2013-Only 2013-Homologated.csv	874	17.0437
All 2014-Only 2014-Homologated.csv	7	0.1365
All 2015-Only 2015-Homologated.csv	11	0.2145
All 2016-Only 2016-Homologated.csv	344	6.7083
All 2017-Only 2017-Homologated.csv	2125	41.4392

16.2 ROAD_CONDITION = "88"

```
##  
## ======  
## CHECKING FEATURE AND VALUE (ROAD_CONDITION=88)  
##  
## Summary per Data File:  
## All 2011-Only 2011-Homologated.csv  
##
```



DATASET FILE	COUNTER OF (ROAD_CONDITION=88)		Percentage
All 2011-Only 2011-Homologated.csv	1		100

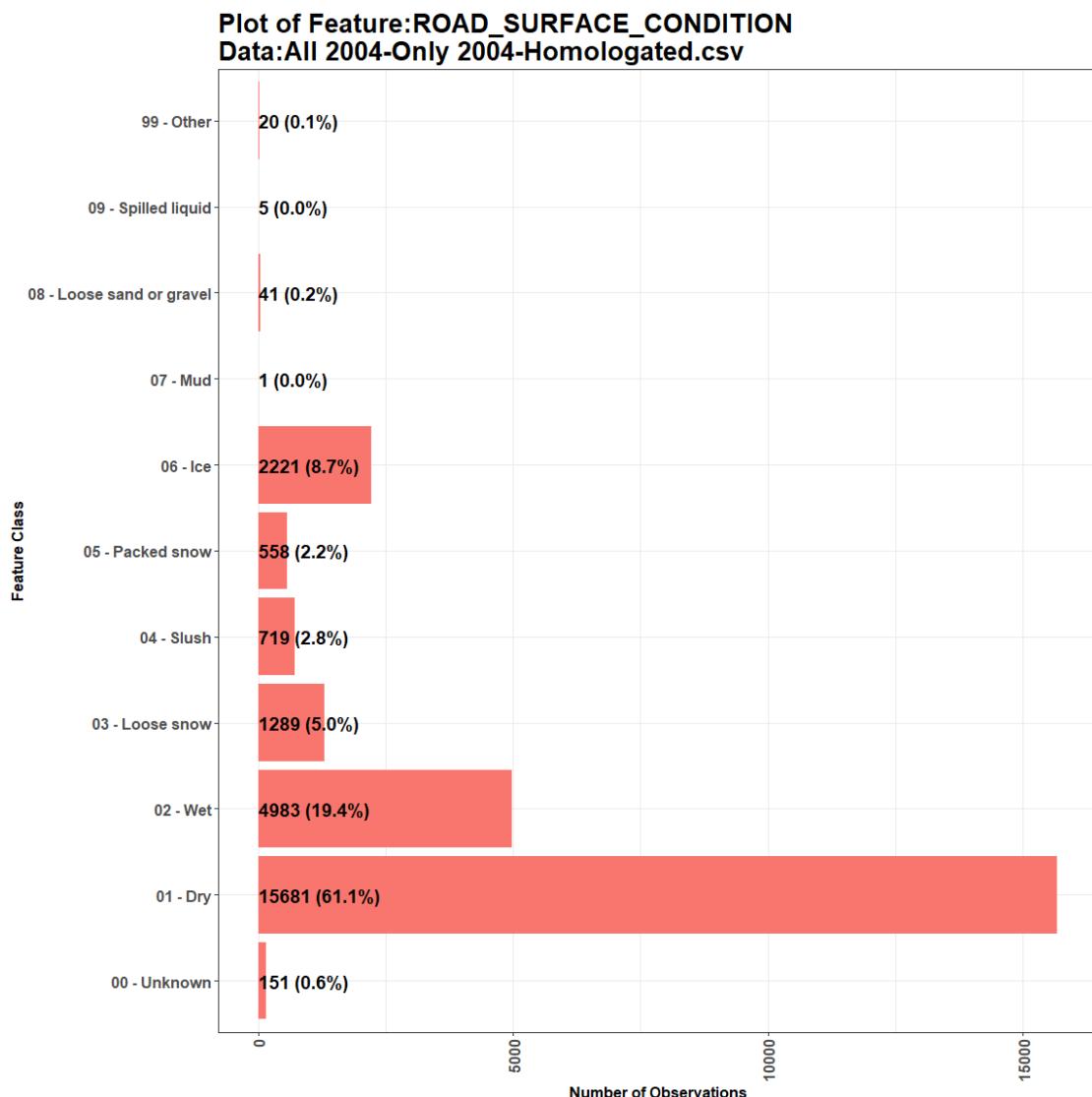
17. Road Surface (ROAD_SURFACE)

Feature ignored/removed.

18. Road Surface Condition (ROAD_SURFACE_CONDITION)

```
##  
## -----
```

```
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 11
##
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION
##
## Feature Value          Counter   Percentage
## -----                  -----
## 00 - Unknown           151       0.5883
## 01 - Dry                15681     61.0893
## 02 - Wet                4983      19.4125
## 03 - Loose snow         1289      5.0216
## 04 - Slush               719       2.8010
## 05 - Packed snow        558       2.1738
## 06 - Ice                 2221      8.6525
## 07 - Mud                 1         0.0039
## 08 - Loose sand or gravel 41       0.1597
## 09 - Spilled liquid      5         0.0195
## 99 - Other               20       0.0779
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 11  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

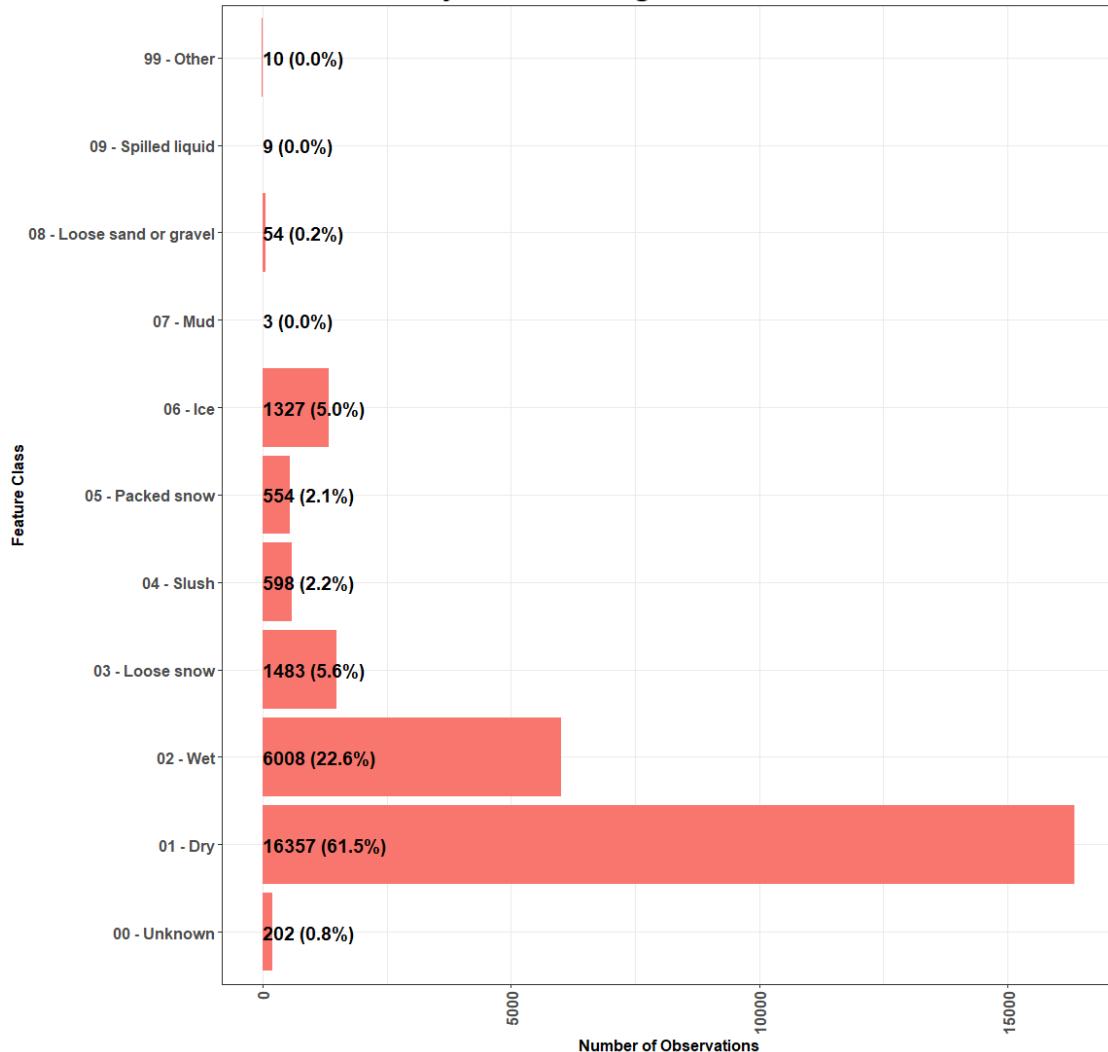
##  

## Feature Value Counter Percentage  

## -----
```

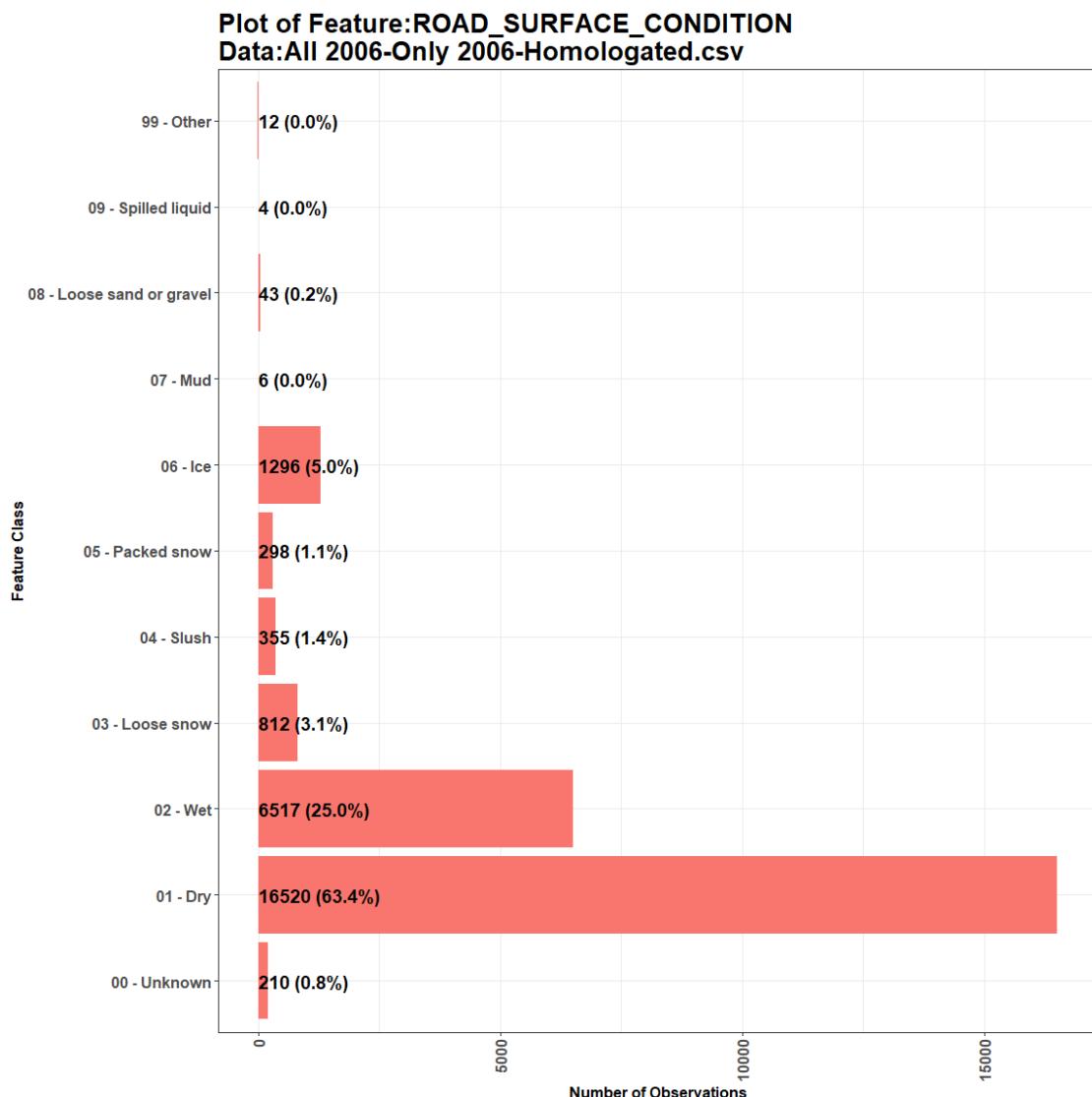
## 00 - Unknown	202	0.7593
## 01 - Dry	16357	61.4809
## 02 - Wet	6008	22.5822
## 03 - Loose snow	1483	5.5741
## 04 - Slush	598	2.2477
## 05 - Packed snow	554	2.0823
## 06 - Ice	1327	4.9878
## 07 - Mud	3	0.0113
## 08 - Loose sand or gravel	54	0.2030
## 09 - Spilled liquid	9	0.0338
## 99 - Other	10	0.0376

Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
```

```
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 11
##
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 210 0.8054
## 01 - Dry 16520 63.3606
## 02 - Wet 6517 24.9952
## 03 - Loose snow 812 3.1143
## 04 - Slush 355 1.3616
## 05 - Packed snow 298 1.1429
## 06 - Ice 1296 4.9707
## 07 - Mud 6 0.0230
## 08 - Loose sand or gravel 43 0.1649
## 09 - Spilled liquid 4 0.0153
## 99 - Other 12 0.0460
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 11  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

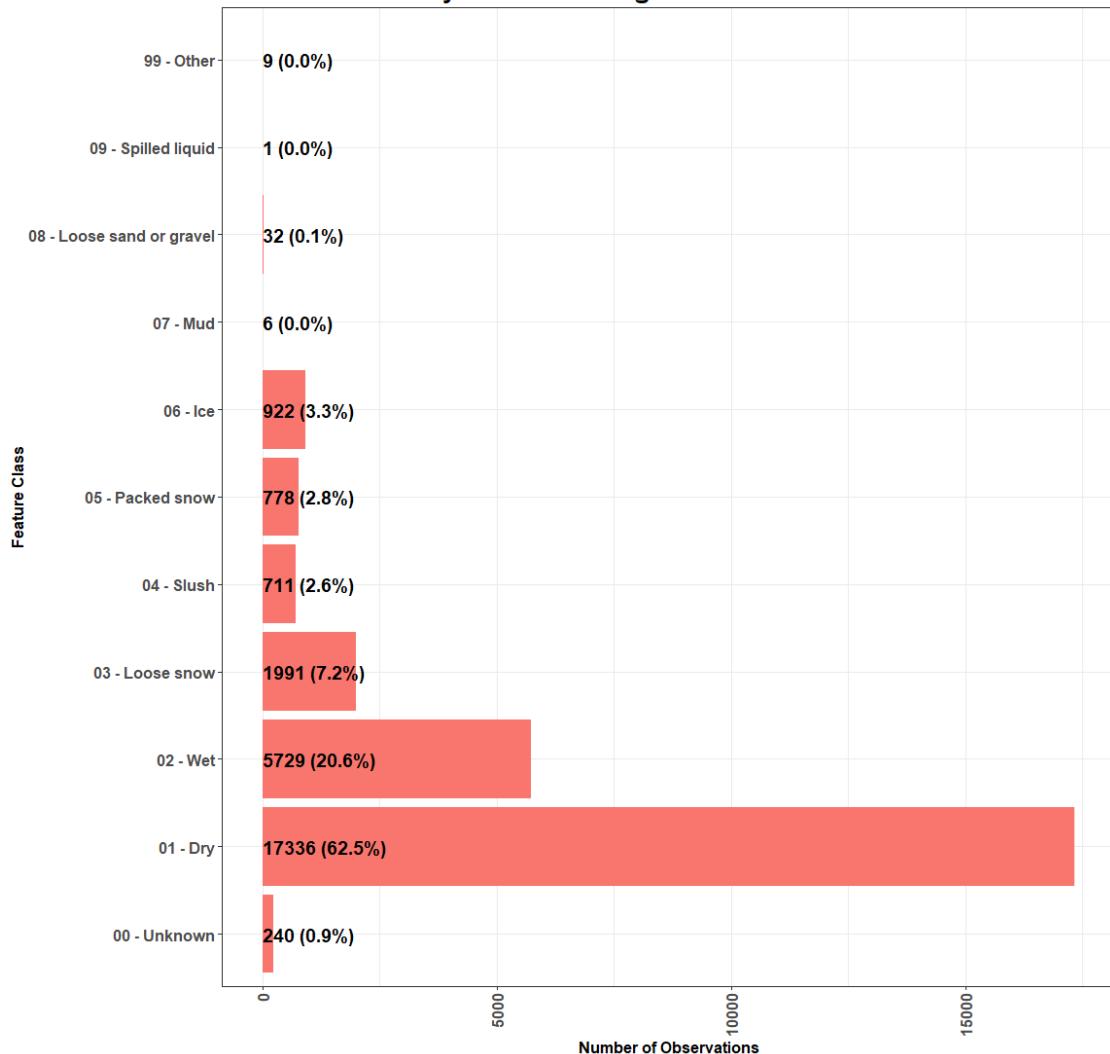
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	240	0.8647
## 01 - Dry	17336	62.4608
## 02 - Wet	5729	20.6413
## 03 - Loose snow	1991	7.1735
## 04 - Slush	711	2.5617
## 05 - Packed snow	778	2.8031
## 06 - Ice	922	3.3219
## 07 - Mud	6	0.0216
## 08 - Loose sand or gravel	32	0.1153
## 09 - Spilled liquid	1	0.0036
## 99 - Other	9	0.0324

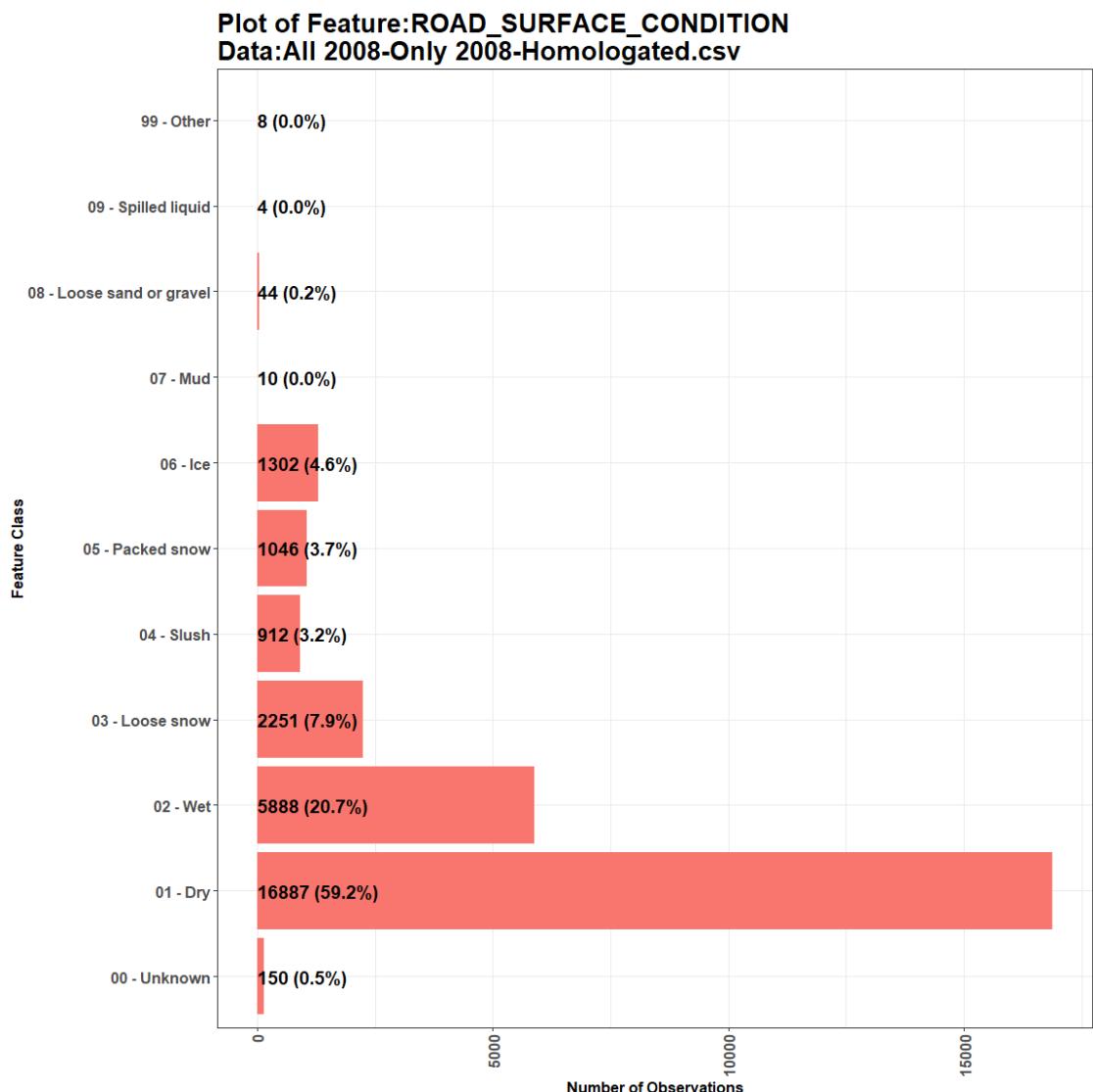
Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2007-Only 2007-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
```



```
## DATA:All 2008-Only 2008-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 11
## 
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION
## 
## Feature Value Counter Percentage
## -----
## 00 - Unknown 150 0.5263
## 01 - Dry 16887 59.2485
## 02 - Wet 5888 20.6582
## 03 - Loose snow 2251 7.8977
## 04 - Slush 912 3.1998
## 05 - Packed snow 1046 3.6699
## 06 - Ice 1302 4.5681
## 07 - Mud 10 0.0351
## 08 - Loose sand or gravel 44 0.1544
## 09 - Spilled liquid 4 0.0140
## 99 - Other 8 0.0281
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 11  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

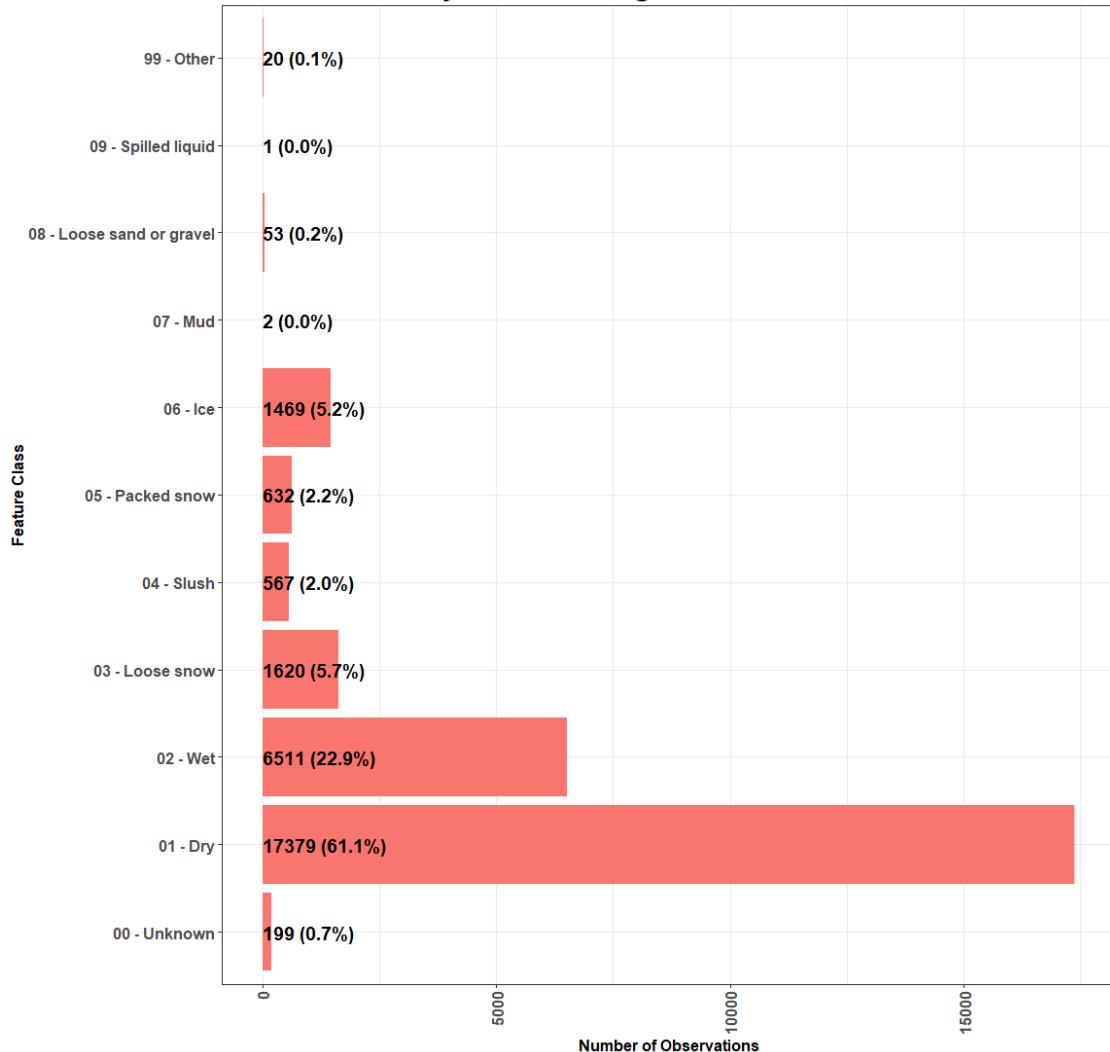
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	199	0.6994
## 01 - Dry	17379	61.0797
## 02 - Wet	6511	22.8834
## 03 - Loose snow	1620	5.6936
## 04 - Slush	567	1.9928
## 05 - Packed snow	632	2.2212
## 06 - Ice	1469	5.1629
## 07 - Mud	2	0.0070
## 08 - Loose sand or gravel	53	0.1863
## 09 - Spilled liquid	1	0.0035
## 99 - Other	20	0.0703

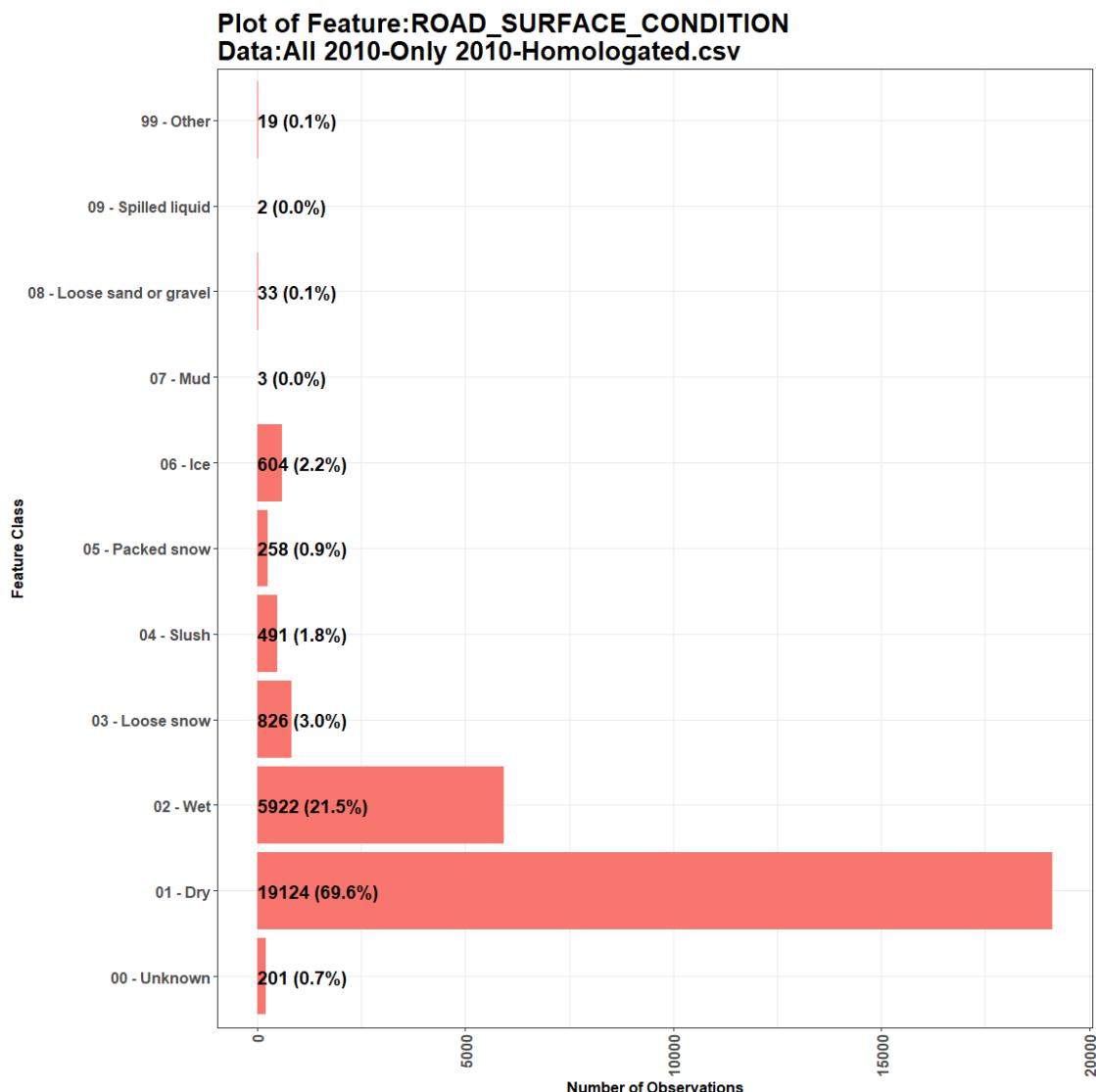
Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
```



```
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 11
##
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 201 0.7314
## 01 - Dry 19124 69.5848
## 02 - Wet 5922 21.5479
## 03 - Loose snow 826 3.0055
## 04 - Slush 491 1.7866
## 05 - Packed snow 258 0.9388
## 06 - Ice 604 2.1977
## 07 - Mud 3 0.0109
## 08 - Loose sand or gravel 33 0.1201
## 09 - Spilled liquid 2 0.0073
## 99 - Other 19 0.0691
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 11  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

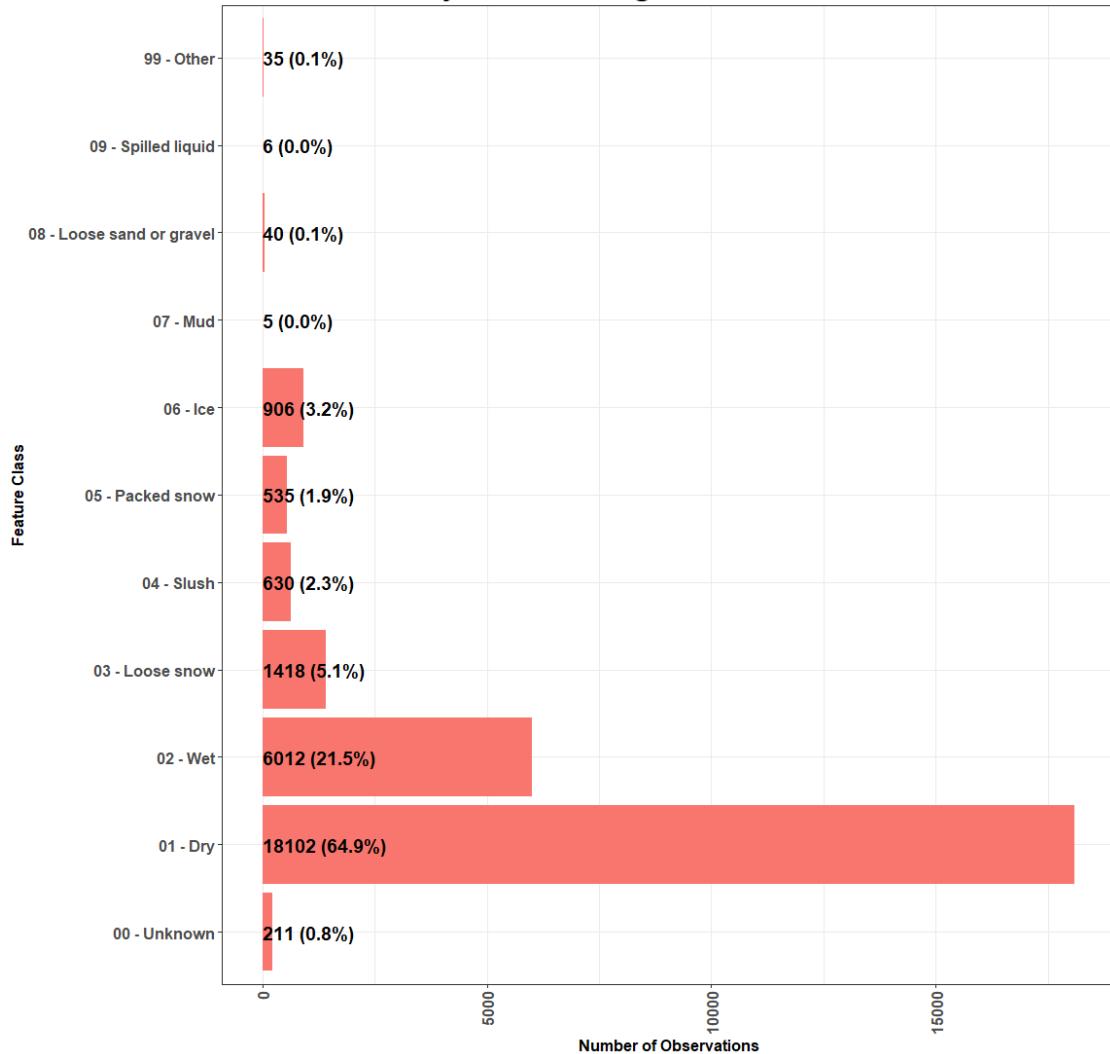
##  

## Feature Value Counter Percentage  

## -----
```

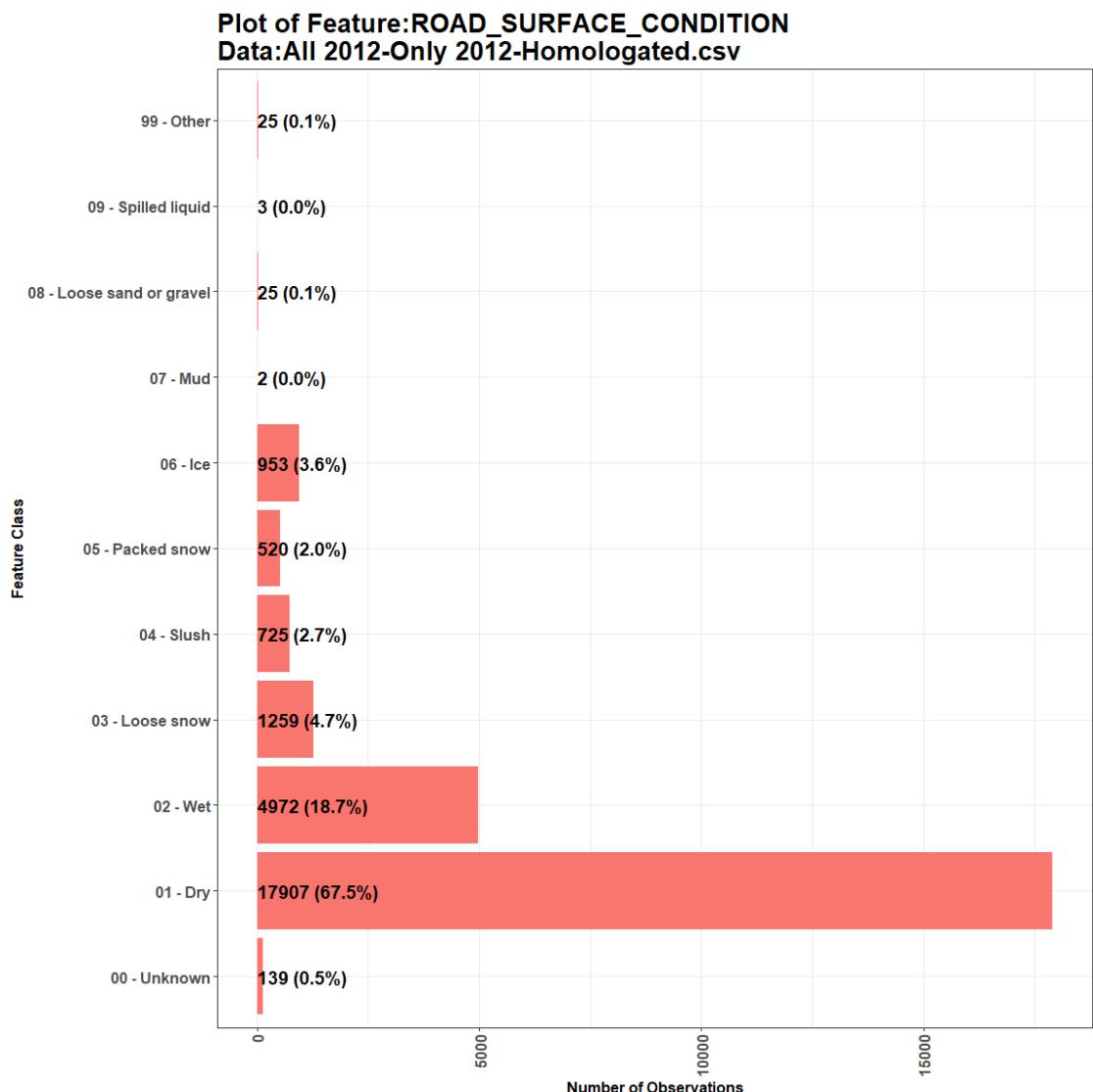
## 00 - Unknown	211	0.7563
## 01 - Dry	18102	64.8817
## 02 - Wet	6012	21.5484
## 03 - Loose snow	1418	5.0824
## 04 - Slush	630	2.2581
## 05 - Packed snow	535	1.9176
## 06 - Ice	906	3.2473
## 07 - Mud	5	0.0179
## 08 - Loose sand or gravel	40	0.1434
## 09 - Spilled liquid	6	0.0215
## 99 - Other	35	0.1254

Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
```

```
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 11
##
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 139 0.5239
## 01 - Dry 17907 67.4972
## 02 - Wet 4972 18.7410
## 03 - Loose snow 1259 4.7456
## 04 - Slush 725 2.7328
## 05 - Packed snow 520 1.9600
## 06 - Ice 953 3.5922
## 07 - Mud 2 0.0075
## 08 - Loose sand or gravel 25 0.0942
## 09 - Spilled liquid 3 0.0113
## 99 - Other 25 0.0942
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 11  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

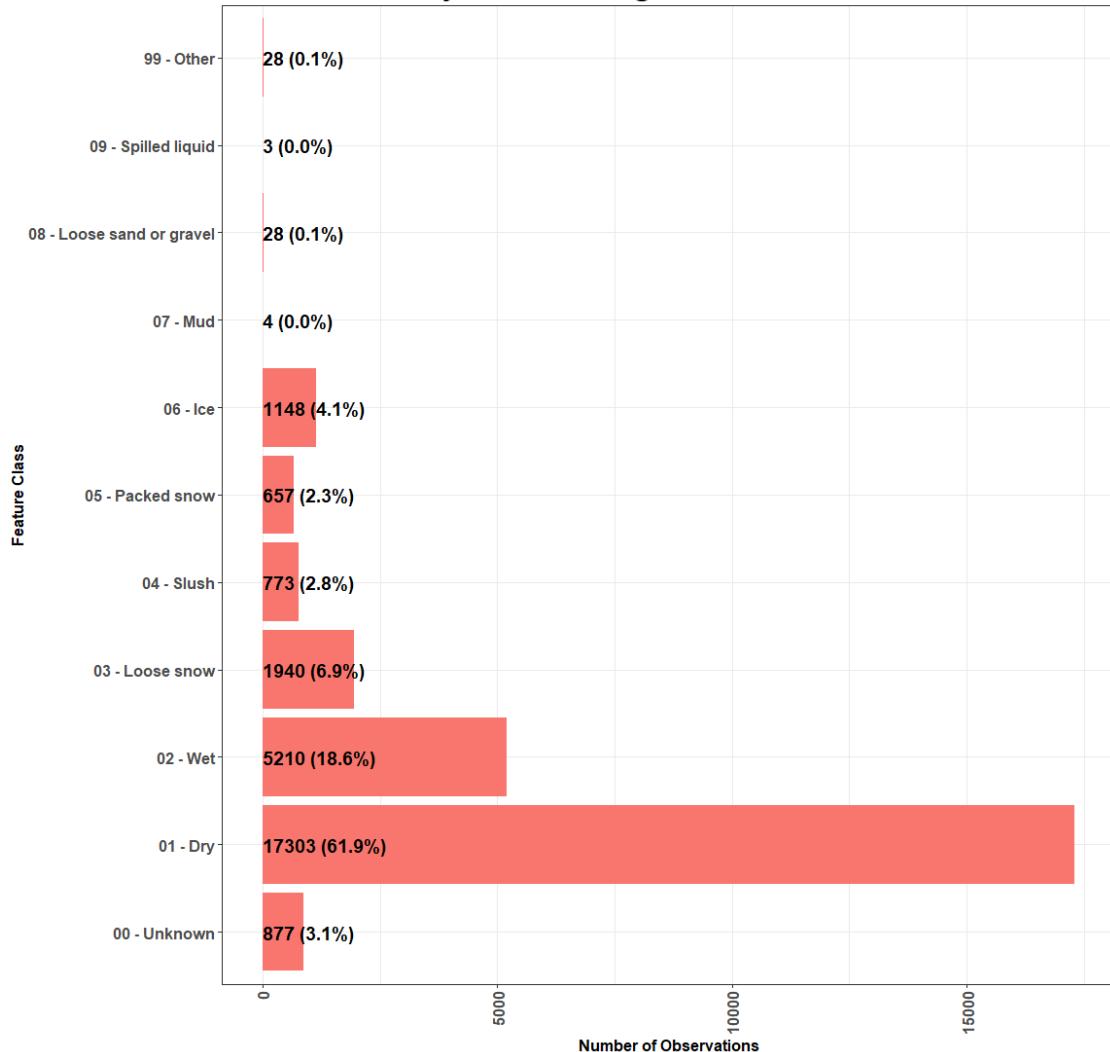
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	877	3.1354
## 01 - Dry	17303	61.8605
## 02 - Wet	5210	18.6264
## 03 - Loose snow	1940	6.9358
## 04 - Slush	773	2.7636
## 05 - Packed snow	657	2.3489
## 06 - Ice	1148	4.1043
## 07 - Mud	4	0.0143
## 08 - Loose sand or gravel	28	0.1001
## 09 - Spilled liquid	3	0.0107
## 99 - Other	28	0.1001

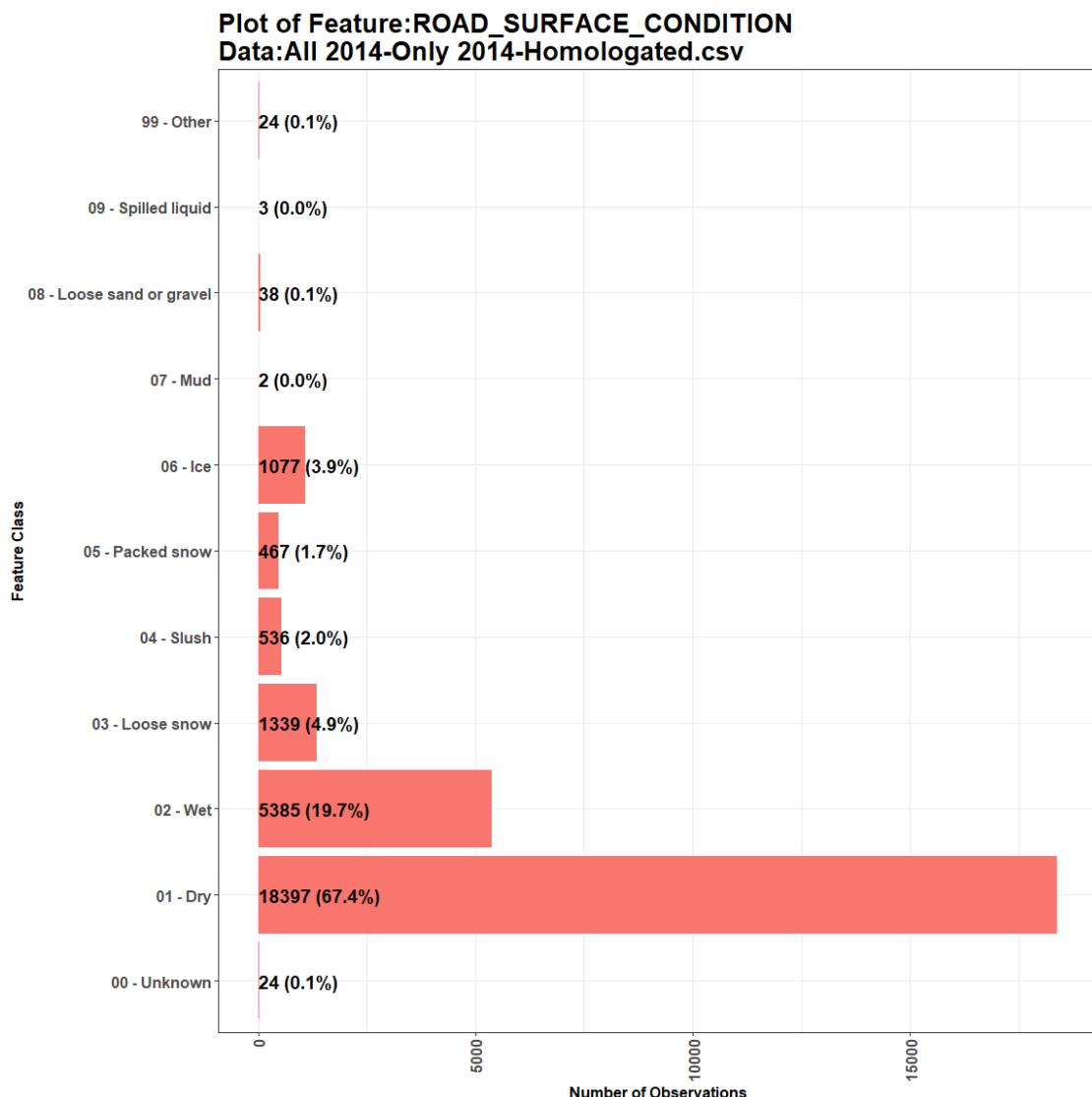
Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2013-Only 2013-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
```



```
## DATA:All 2014-Only 2014-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 11
## 
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION
## 
## Feature Value Counter Percentage
## -----
## 00 - Unknown 24 0.0879
## 01 - Dry 18397 67.4080
## 02 - Wet 5385 19.7311
## 03 - Loose snow 1339 4.9062
## 04 - Slush 536 1.9639
## 05 - Packed snow 467 1.7111
## 06 - Ice 1077 3.9462
## 07 - Mud 2 0.0073
## 08 - Loose sand or gravel 38 0.1392
## 09 - Spilled liquid 3 0.0110
## 99 - Other 24 0.0879
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

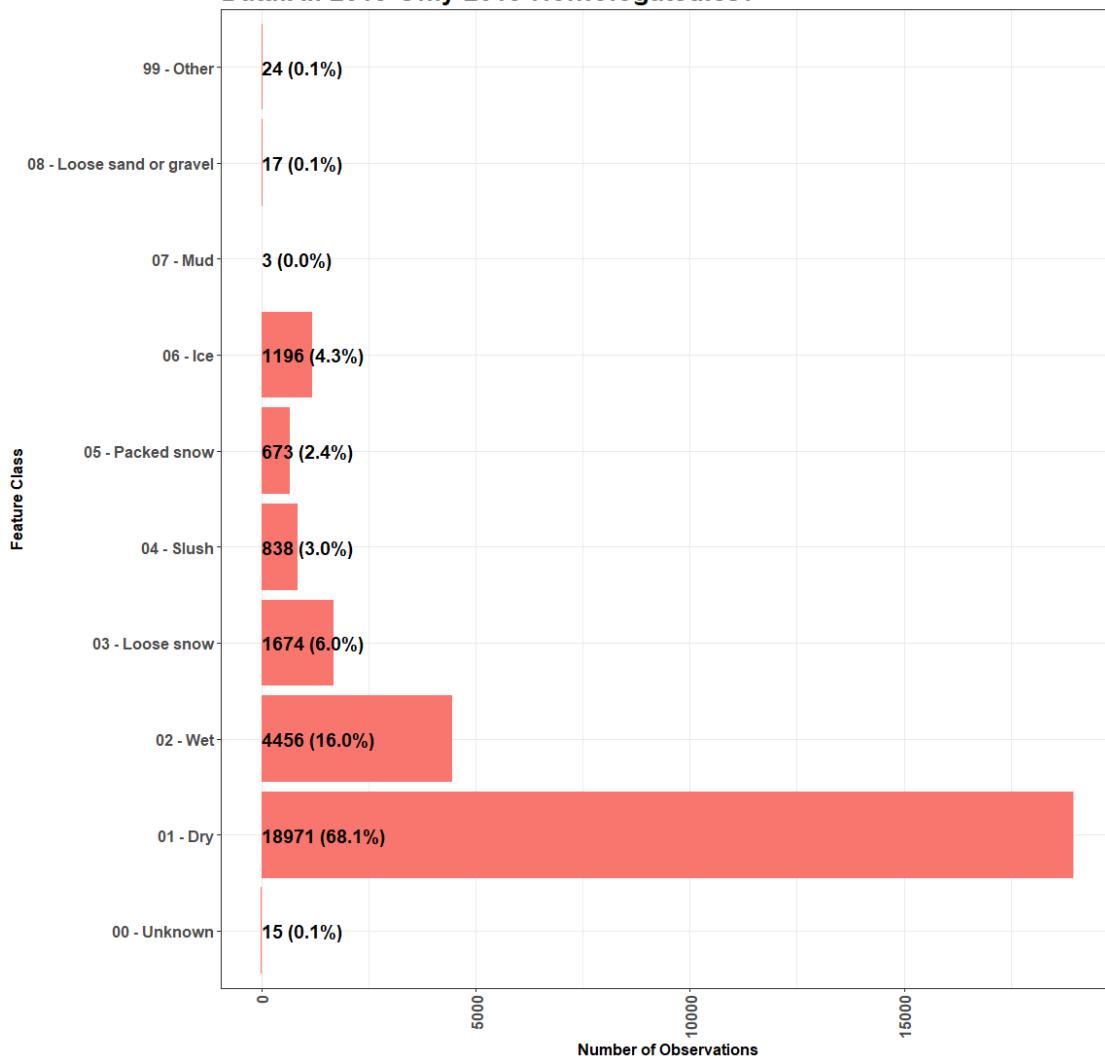
##  

## Feature Value Counter Percentage  

## -----
```

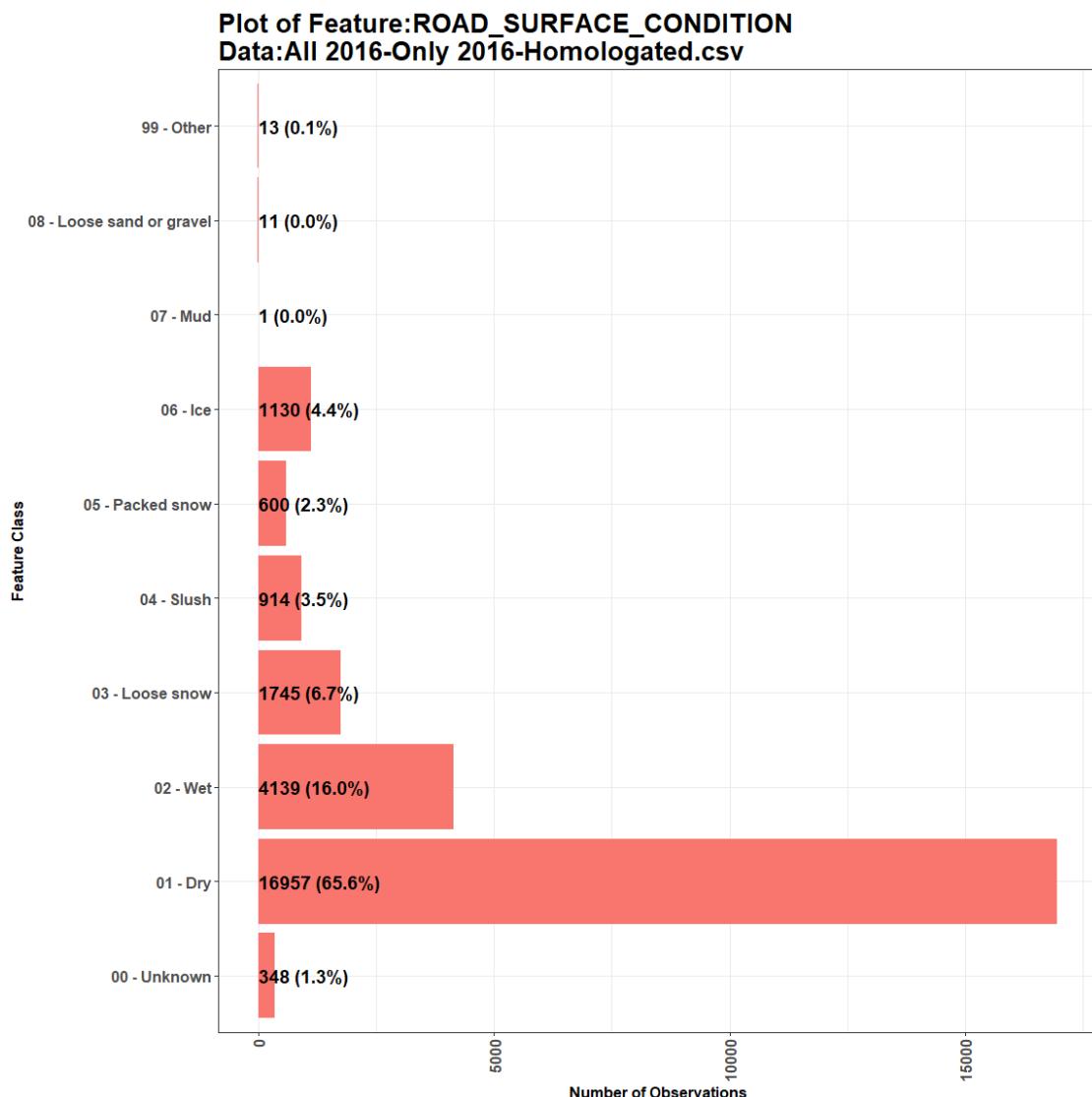
## 00 - Unknown	15	0.0538
## 01 - Dry	18971	68.0769
## 02 - Wet	4456	15.9902
## 03 - Loose snow	1674	6.0071
## 04 - Slush	838	3.0071
## 05 - Packed snow	673	2.4150
## 06 - Ice	1196	4.2918
## 07 - Mud	3	0.0108
## 08 - Loose sand or gravel	17	0.0610
## 99 - Other	24	0.0861

Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ROAD_SURFACE_CONDITION
## DATA:All 2016-Only 2016-Homologated.csv...
```

```
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  
##  
## Feature Value Counter Percentage  
## ----- -----  
## 00 - Unknown 348 1.3458  
## 01 - Dry 16957 65.5774  
## 02 - Wet 4139 16.0067  
## 03 - Loose snow 1745 6.7484  
## 04 - Slush 914 3.5347  
## 05 - Packed snow 600 2.3204  
## 06 - Ice 1130 4.3700  
## 07 - Mud 1 0.0039  
## 08 - Loose sand or gravel 11 0.0425  
## 99 - Other 13 0.0503
```



```
##  

## -----  

## CHECKING FEATURE:ROAD_SURFACE_CONDITION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 10  

##  

## TOP 100 FEATURES OF ROAD_SURFACE_CONDITION  

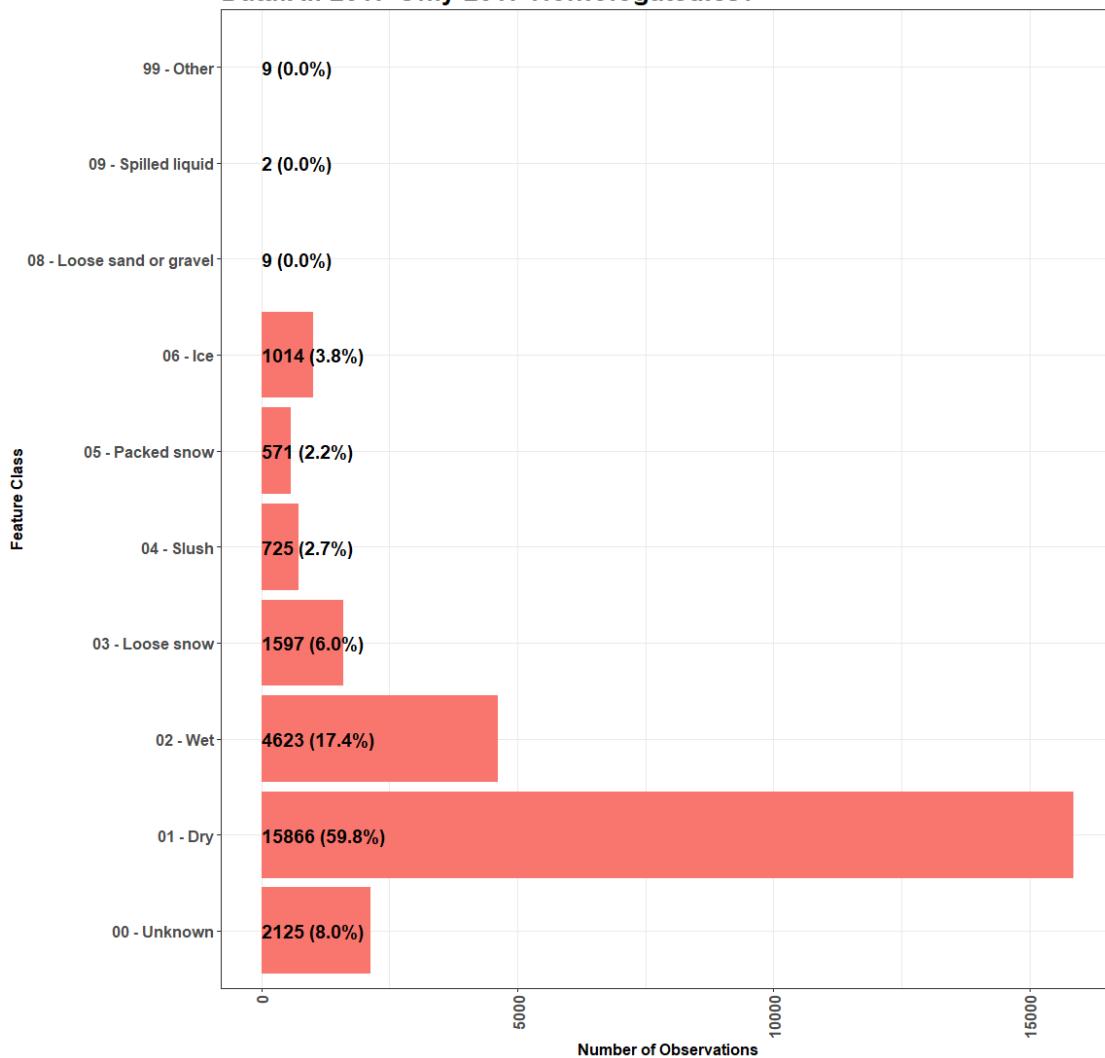
##  

## Feature Value Counter Percentage  

## -----
```

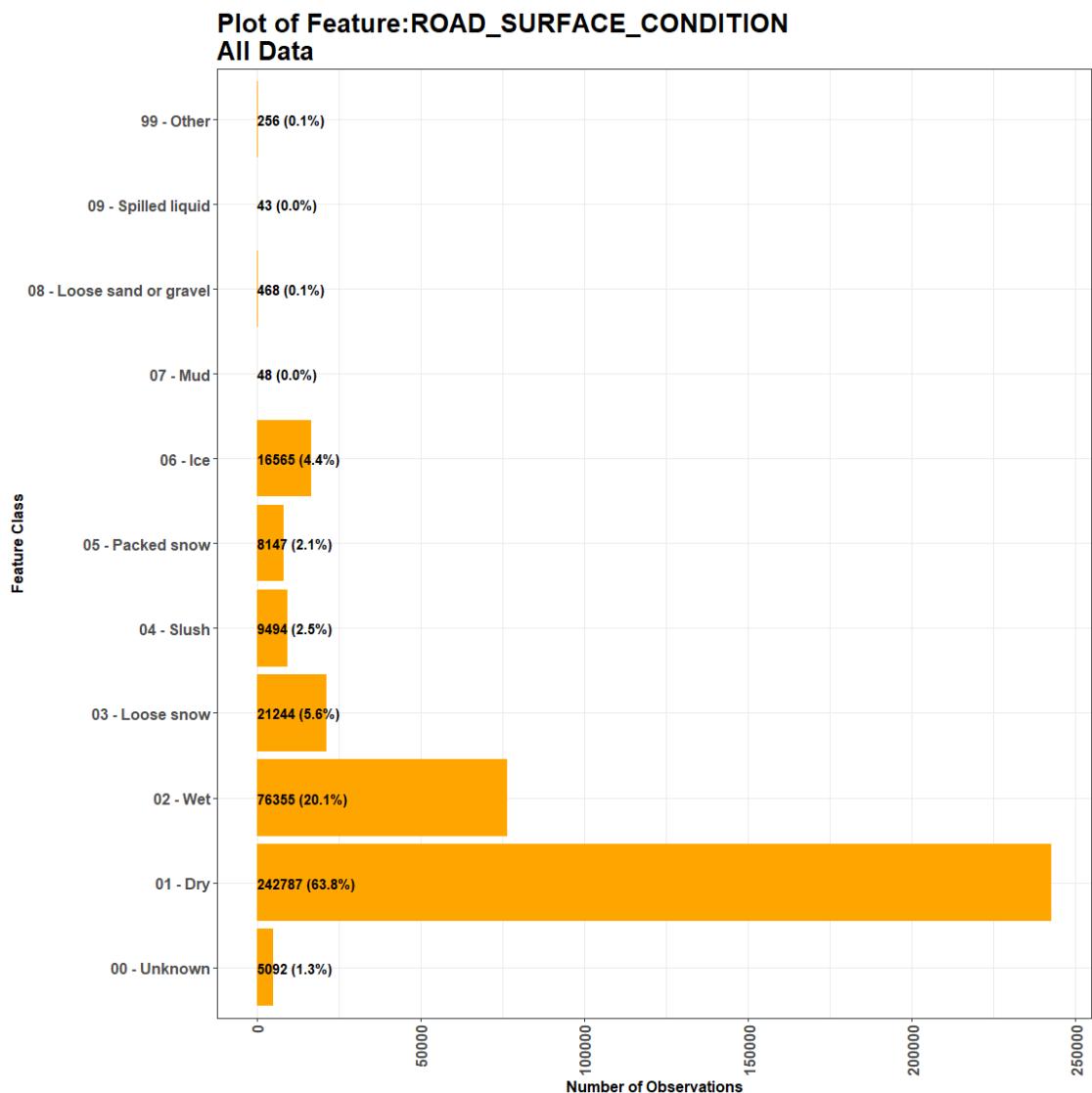
## 00 - Unknown	2125	8.0065
## 01 - Dry	15866	59.7792
## 02 - Wet	4623	17.4183
## 03 - Loose snow	1597	6.0171
## 04 - Slush	725	2.7316
## 05 - Packed snow	571	2.1514
## 06 - Ice	1014	3.8205
## 08 - Loose sand or gravel	9	0.0339
## 09 - Spilled liquid	2	0.0075
## 99 - Other	9	0.0339

Plot of Feature:ROAD_SURFACE_CONDITION
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:ROAD_SURFACE_CONDITION
## ALL DATA...
```

```
## =====
## 
## Number of Blank Values:0
## 
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                                     25669                               26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                                     26073                               27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                                     28502                               28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                                     27483                               27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                                     26530                               27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                                     27292                               27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                                     25858                               26541
## 
## 
## Summary as Factor Feature:
## Number of Features: 11
```



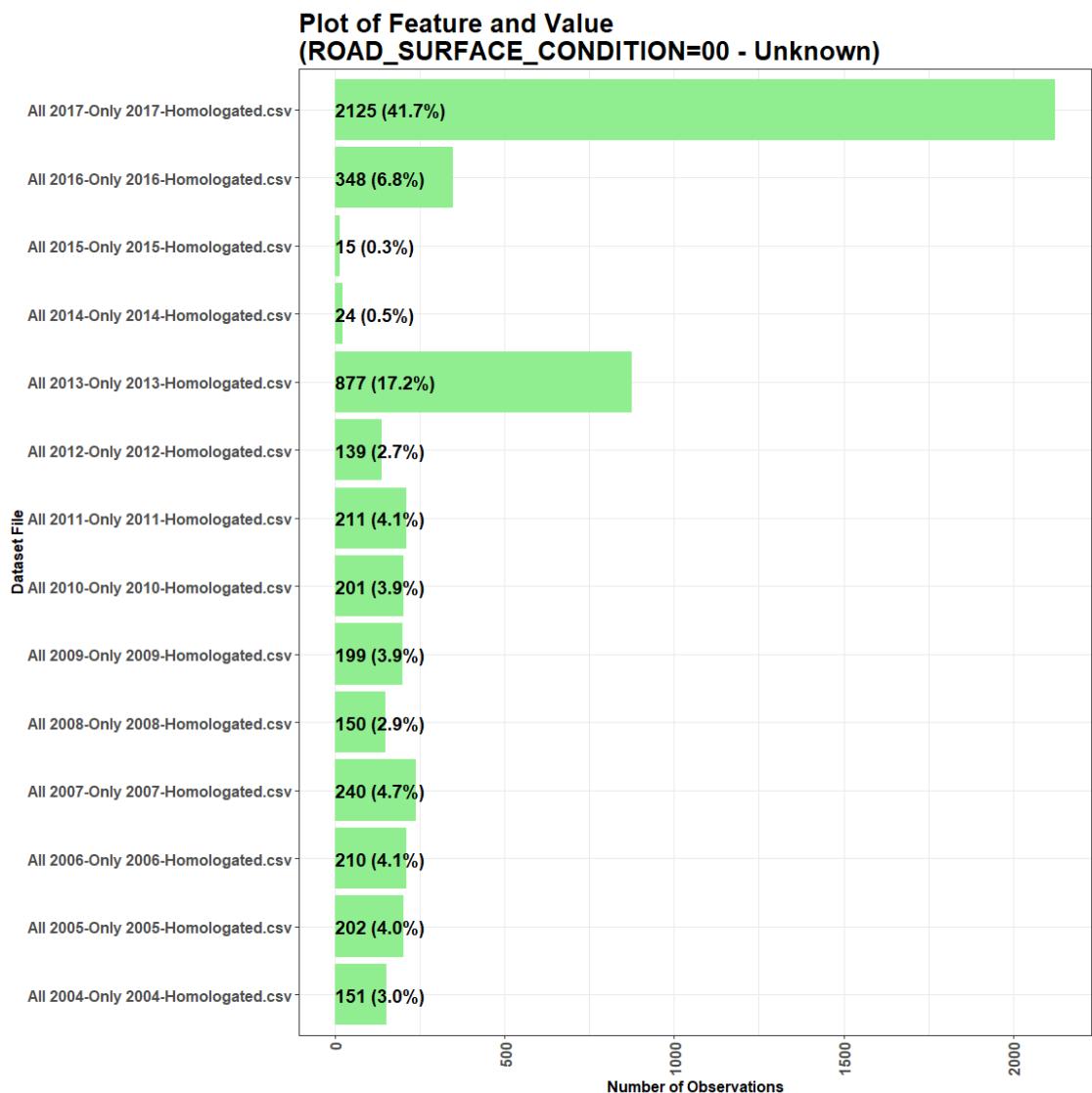
```
## [1] "TOP 100 FEATURES COUNTERS OF:ROAD_SURFACE_CONDITION"
```

Feature Value	Counter	Percentage
00 - Unknown	5092	1.3382
01 - Dry	242787	63.8075
02 - Wet	76355	20.0671
03 - Loose snow	21244	5.5832
04 - Slush	9494	2.4951
05 - Packed snow	8147	2.1411
06 - Ice	16565	4.3535
07 - Mud	48	0.0126
08 - Loose sand or gravel	468	0.1230

09 - Spilled liquid	43	0.0113
99 - Other	256	0.0673

18.1 ROAD_SURFACE_CONDITION = "00 - Unknown"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (ROAD_SURFACE_CONDITION=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 151 202  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 210 240  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 150 199  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 201 211  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 139 877  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 24 15  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 348 2125
```



DATASET FILE	COUNTER OF (ROAD_SURFACE_CONDITION=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	151	2.9654	
All 2005-Only 2005-Homologated.csv	202	3.9670	
All 2006-Only 2006-Homologated.csv	210	4.1241	
All 2007-Only 2007-Homologated.csv	240	4.7133	
All 2008-Only 2008-Homologated.csv	150	2.9458	

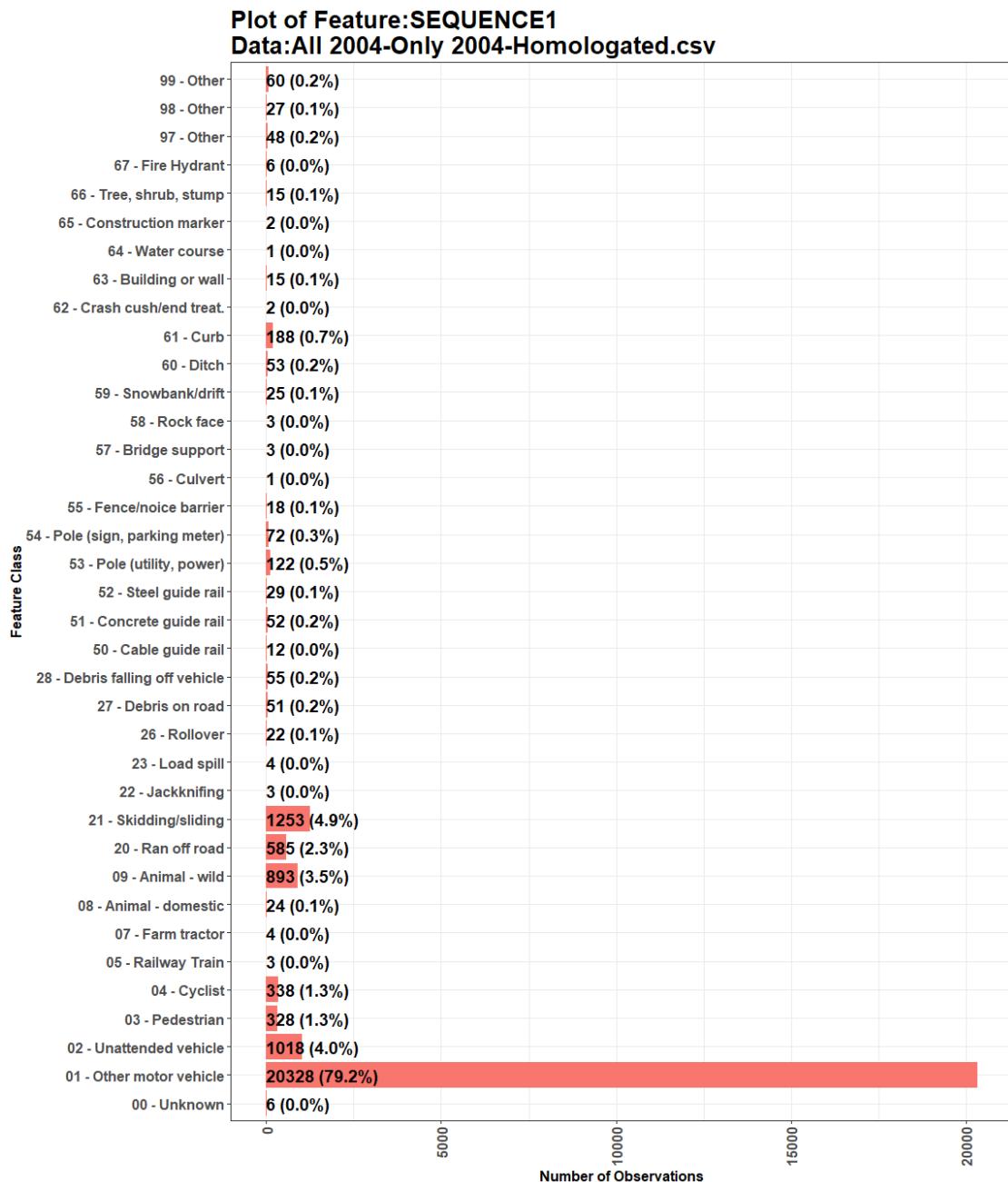
All 2009-Only 2009-Homologated.csv	199	3.9081
All 2010-Only 2010-Homologated.csv	201	3.9474
All 2011-Only 2011-Homologated.csv	211	4.1438
All 2012-Only 2012-Homologated.csv	139	2.7298
All 2013-Only 2013-Homologated.csv	877	17.2231
All 2014-Only 2014-Homologated.csv	24	0.4713
All 2015-Only 2015-Homologated.csv	15	0.2946
All 2016-Only 2016-Homologated.csv	348	6.8342
All 2017-Only 2017-Homologated.csv	2125	41.7321

19. Sequence1 (SEQUENCE1)

```
## 
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 37
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value          Counter   Percentage
## -----
## 00 - Unknown           6         0.0234
## 01 - Other motor vehicle 20328     79.1928
## 02 - Unattended vehicle 1018      3.9659
## 03 - Pedestrian          328       1.2778
## 04 - Cyclist             338       1.3168
## 05 - Railway Train       3         0.0117
## 07 - Farm tractor         4         0.0156
## 08 - Animal - domestic   24        0.0935
```



## 09 - Animal - wild	893	3.4789
## 20 - Ran off road	585	2.2790
## 21 - Skidding/sliding	1253	4.8814
## 22 - Jackknifing	3	0.0117
## 23 - Load spill	4	0.0156
## 26 - Rollover	22	0.0857
## 27 - Debris on road	51	0.1987
## 28 - Debris falling off vehicle	55	0.2143
## 50 - Cable guide rail	12	0.0467
## 51 - Concrete guide rail	52	0.2026
## 52 - Steel guide rail	29	0.1130
## 53 - Pole (utility, power)	122	0.4753
## 54 - Pole (sign, parking meter)	72	0.2805
## 55 - Fence/noice barrier	18	0.0701
## 56 - Culvert	1	0.0039
## 57 - Bridge support	3	0.0117
## 58 - Rock face	3	0.0117
## 59 - Snowbank/drift	25	0.0974
## 60 - Ditch	53	0.2065
## 61 - Curb	188	0.7324
## 62 - Crash cush/end treat.	2	0.0078
## 63 - Building or wall	15	0.0584
## 64 - Water course	1	0.0039
## 65 - Construction marker	2	0.0078
## 66 - Tree, shrub, stump	15	0.0584
## 67 - Fire Hydrant	6	0.0234
## 97 - Other	48	0.1870
## 98 - Other	27	0.1052
## 99 - Other	60	0.2337

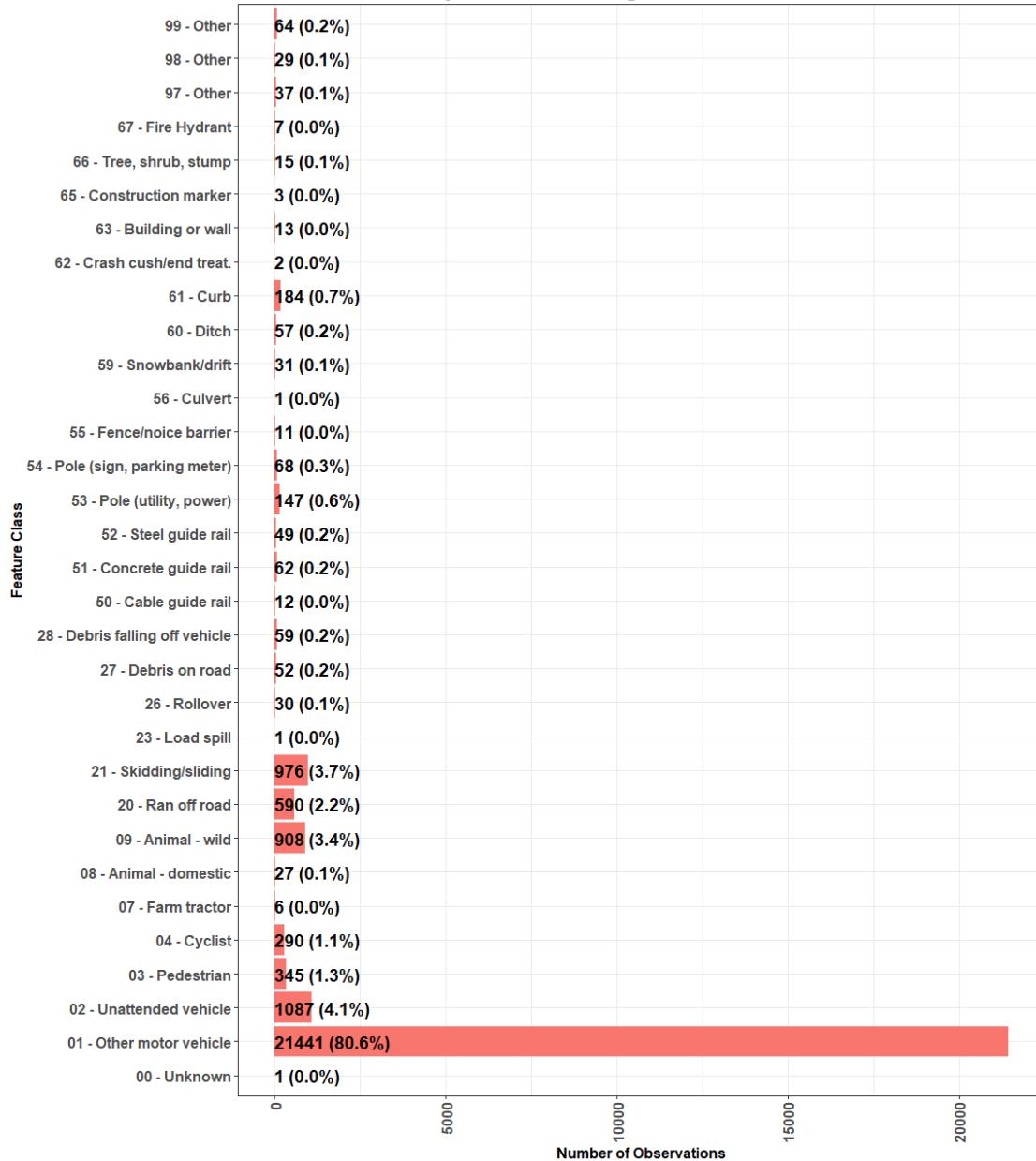


```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 32
```



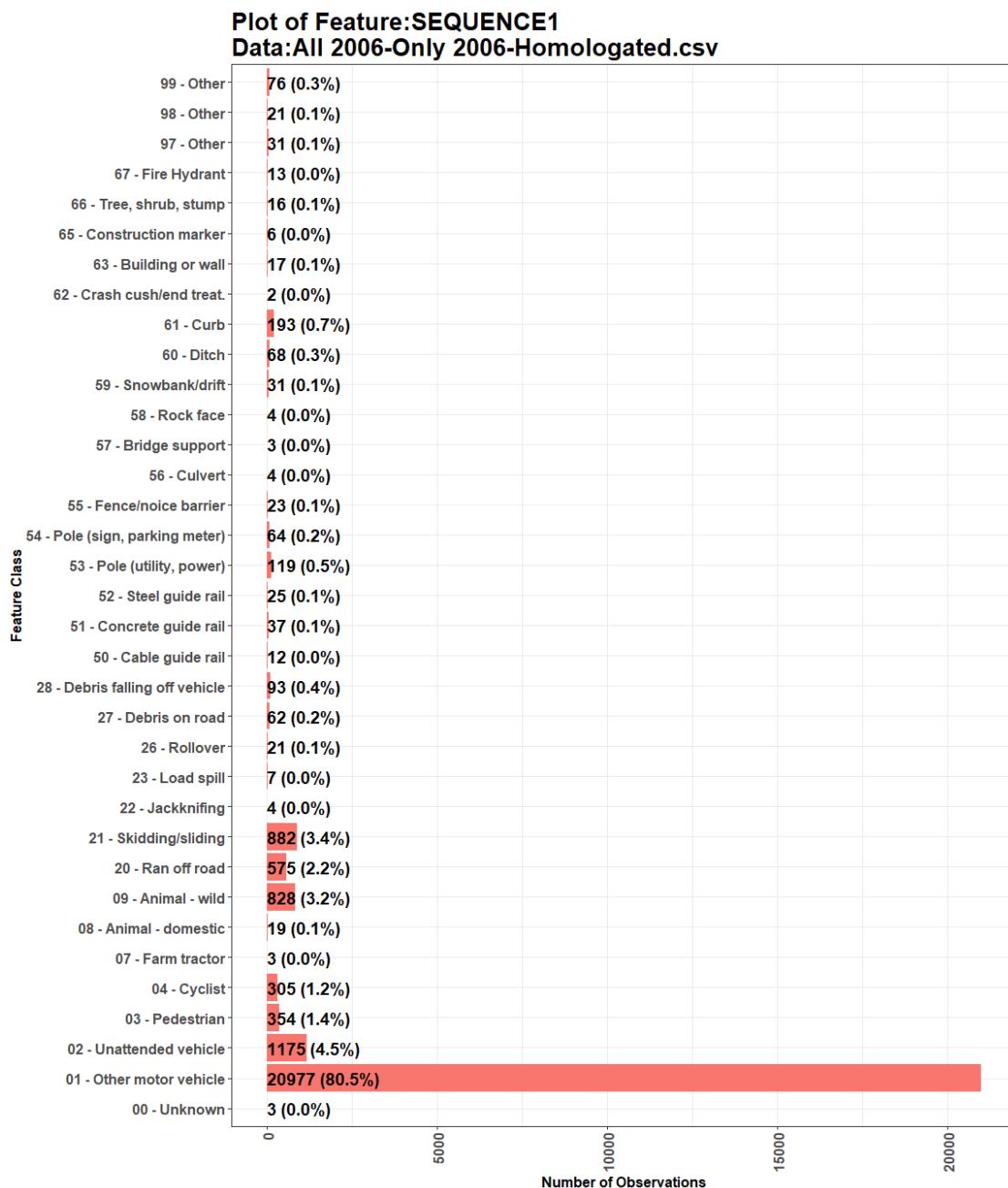
```
##  
## TOP 100 FEATURES OF SEQUENCE1  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1 0.0038  
## 01 - Other motor vehicle 21441 80.5901  
## 02 - Unattended vehicle 1087 4.0857  
## 03 - Pedestrian 345 1.2967  
## 04 - Cyclist 290 1.0900  
## 07 - Farm tractor 6 0.0226  
## 08 - Animal - domestic 27 0.1015  
## 09 - Animal - wild 908 3.4129  
## 20 - Ran off road 590 2.2176  
## 21 - Skidding/sliding 976 3.6685  
## 23 - Load spill 1 0.0038  
## 26 - Rollover 30 0.1128  
## 27 - Debris on road 52 0.1955  
## 28 - Debris falling off vehicle 59 0.2218  
## 50 - Cable guide rail 12 0.0451  
## 51 - Concrete guide rail 62 0.2330  
## 52 - Steel guide rail 49 0.1842  
## 53 - Pole (utility, power) 147 0.5525  
## 54 - Pole (sign, parking meter) 68 0.2556  
## 55 - Fence/noice barrier 11 0.0413  
## 56 - Culvert 1 0.0038  
## 59 - Snowbank/drift 31 0.1165  
## 60 - Ditch 57 0.2142  
## 61 - Curb 184 0.6916  
## 62 - Crash cush/end treat. 2 0.0075  
## 63 - Building or wall 13 0.0489  
## 65 - Construction marker 3 0.0113  
## 66 - Tree, shrub, stump 15 0.0564  
## 67 - Fire Hydrant 7 0.0263  
## 97 - Other 37 0.1391  
## 98 - Other 29 0.1090  
## 99 - Other 64 0.2406
```

Plot of Feature:SEQUENCE1
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

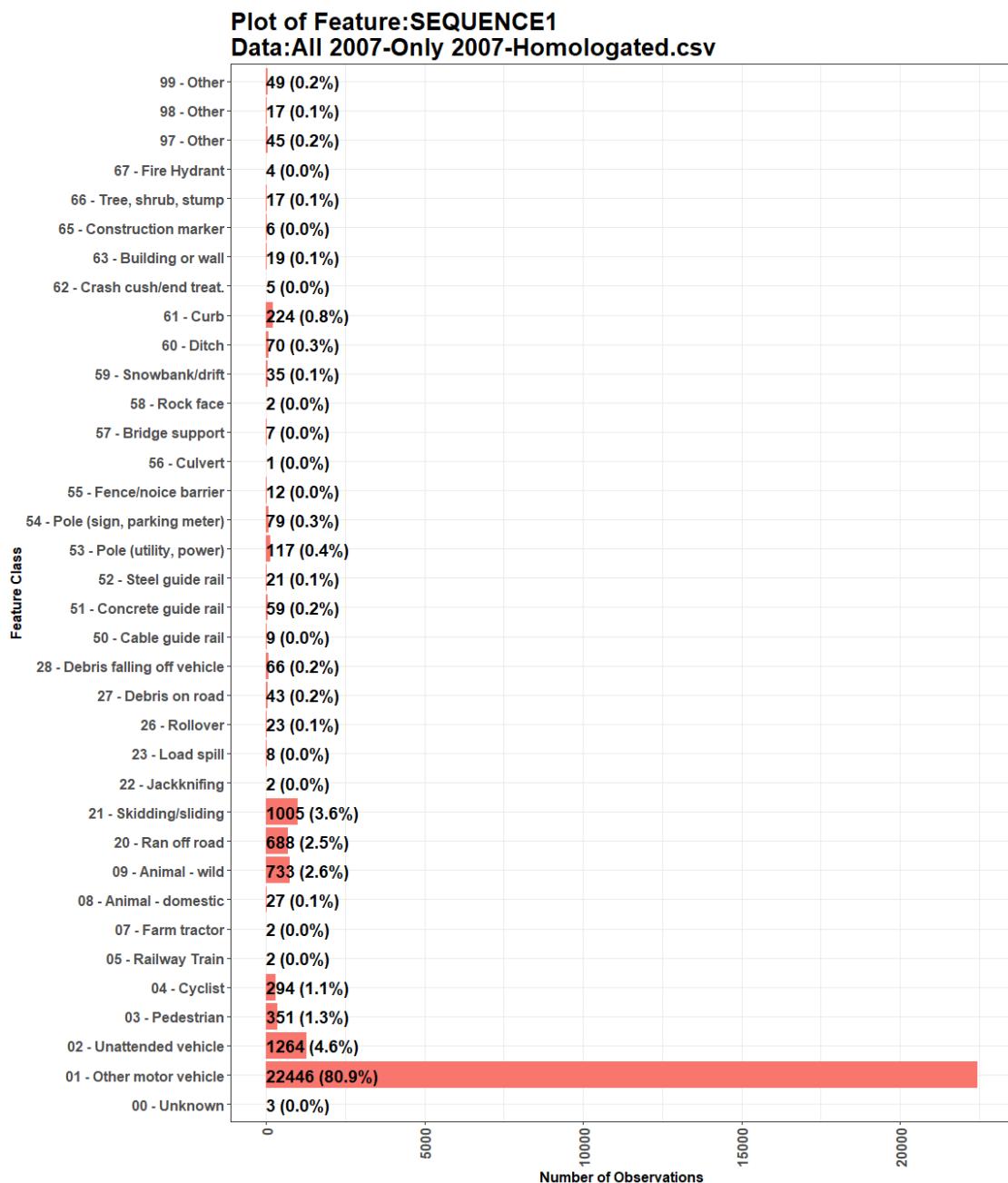
```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 3 0.0115
## 01 - Other motor vehicle 20977 80.4549
## 02 - Unattended vehicle 1175 4.5066
## 03 - Pedestrian 354 1.3577
## 04 - Cyclist 305 1.1698
## 07 - Farm tractor 3 0.0115
## 08 - Animal - domestic 19 0.0729
## 09 - Animal - wild 828 3.1757
## 20 - Ran off road 575 2.2053
## 21 - Skidding/sliding 882 3.3828
## 22 - Jackknifing 4 0.0153
## 23 - Load spill 7 0.0268
## 26 - Rollover 21 0.0805
## 27 - Debris on road 62 0.2378
## 28 - Debris falling off vehicle 93 0.3567
## 50 - Cable guide rail 12 0.0460
## 51 - Concrete guide rail 37 0.1419
## 52 - Steel guide rail 25 0.0959
## 53 - Pole (utility, power) 119 0.4564
## 54 - Pole (sign, parking meter) 64 0.2455
## 55 - Fence/noice barrier 23 0.0882
## 56 - Culvert 4 0.0153
## 57 - Bridge support 3 0.0115
## 58 - Rock face 4 0.0153
## 59 - Snowbank/drift 31 0.1189
## 60 - Ditch 68 0.2608
## 61 - Curb 193 0.7402
## 62 - Crash cush/end treat. 2 0.0077
## 63 - Building or wall 17 0.0652
## 65 - Construction marker 6 0.0230
## 66 - Tree, shrub, stump 16 0.0614
## 67 - Fire Hydrant 13 0.0499
## 97 - Other 31 0.1189
## 98 - Other 21 0.0805
## 99 - Other 76 0.2915
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 36
```

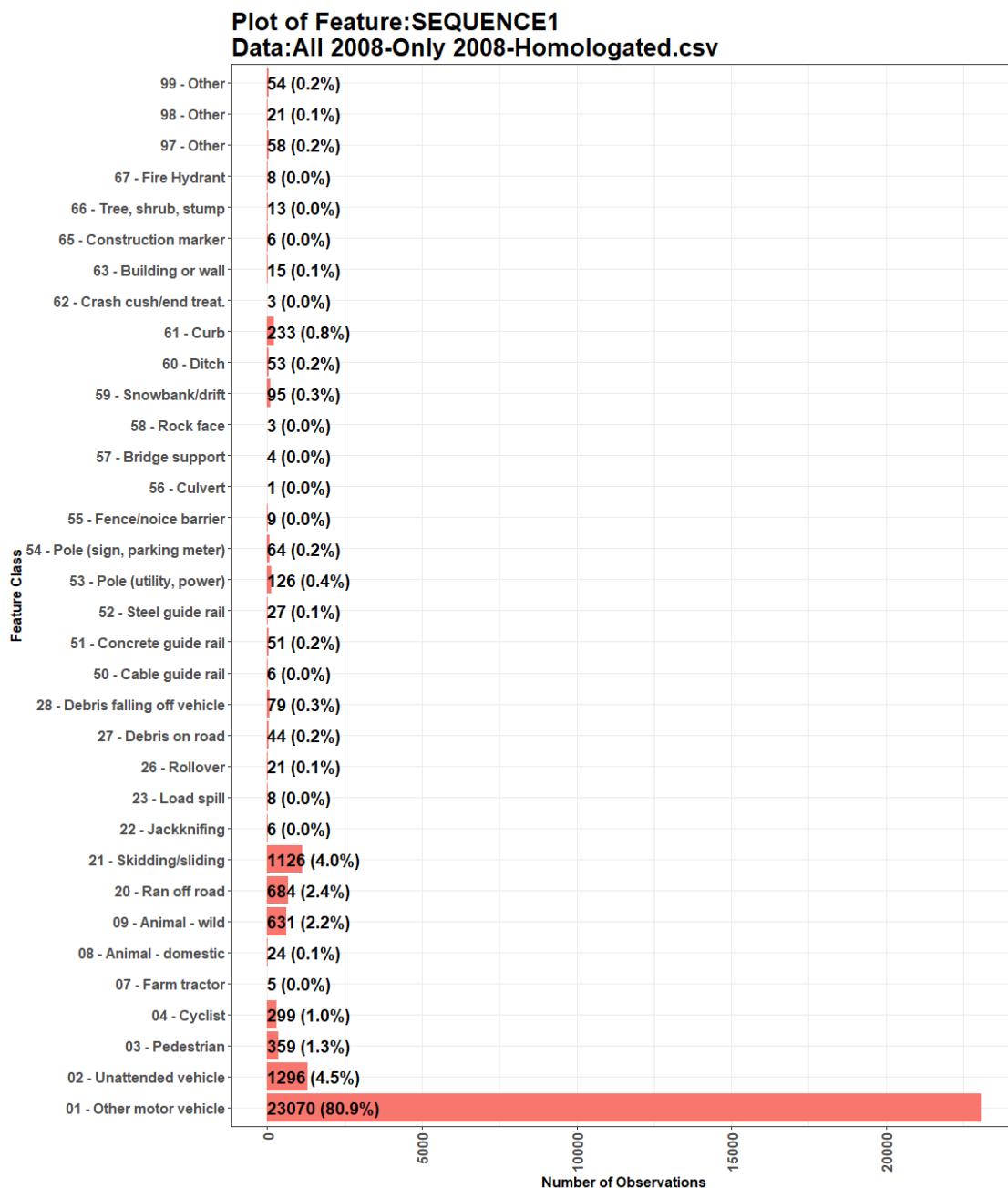


```
##  
## TOP 100 FEATURES OF SEQUENCE1  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 3 0.0108  
## 01 - Other motor vehicle 22446 80.8719  
## 02 - Unattended vehicle 1264 4.5541  
## 03 - Pedestrian 351 1.2646  
## 04 - Cyclist 294 1.0593  
## 05 - Railway Train 2 0.0072  
## 07 - Farm tractor 2 0.0072  
## 08 - Animal - domestic 27 0.0973  
## 09 - Animal - wild 733 2.6410  
## 20 - Ran off road 688 2.4788  
## 21 - Skidding/sliding 1005 3.6210  
## 22 - Jackknifing 2 0.0072  
## 23 - Load spill 8 0.0288  
## 26 - Rollover 23 0.0829  
## 27 - Debris on road 43 0.1549  
## 28 - Debris falling off vehicle 66 0.2378  
## 50 - Cable guide rail 9 0.0324  
## 51 - Concrete guide rail 59 0.2126  
## 52 - Steel guide rail 21 0.0757  
## 53 - Pole (utility, power) 117 0.4215  
## 54 - Pole (sign, parking meter) 79 0.2846  
## 55 - Fence/noice barrier 12 0.0432  
## 56 - Culvert 1 0.0036  
## 57 - Bridge support 7 0.0252  
## 58 - Rock face 2 0.0072  
## 59 - Snowbank/drift 35 0.1261  
## 60 - Ditch 70 0.2522  
## 61 - Curb 224 0.8071  
## 62 - Crash cush/end treat. 5 0.0180  
## 63 - Building or wall 19 0.0685  
## 65 - Construction marker 6 0.0216  
## 66 - Tree, shrub, stump 17 0.0613  
## 67 - Fire Hydrant 4 0.0144  
## 97 - Other 45 0.1621  
## 98 - Other 17 0.0613  
## 99 - Other 49 0.1765
```



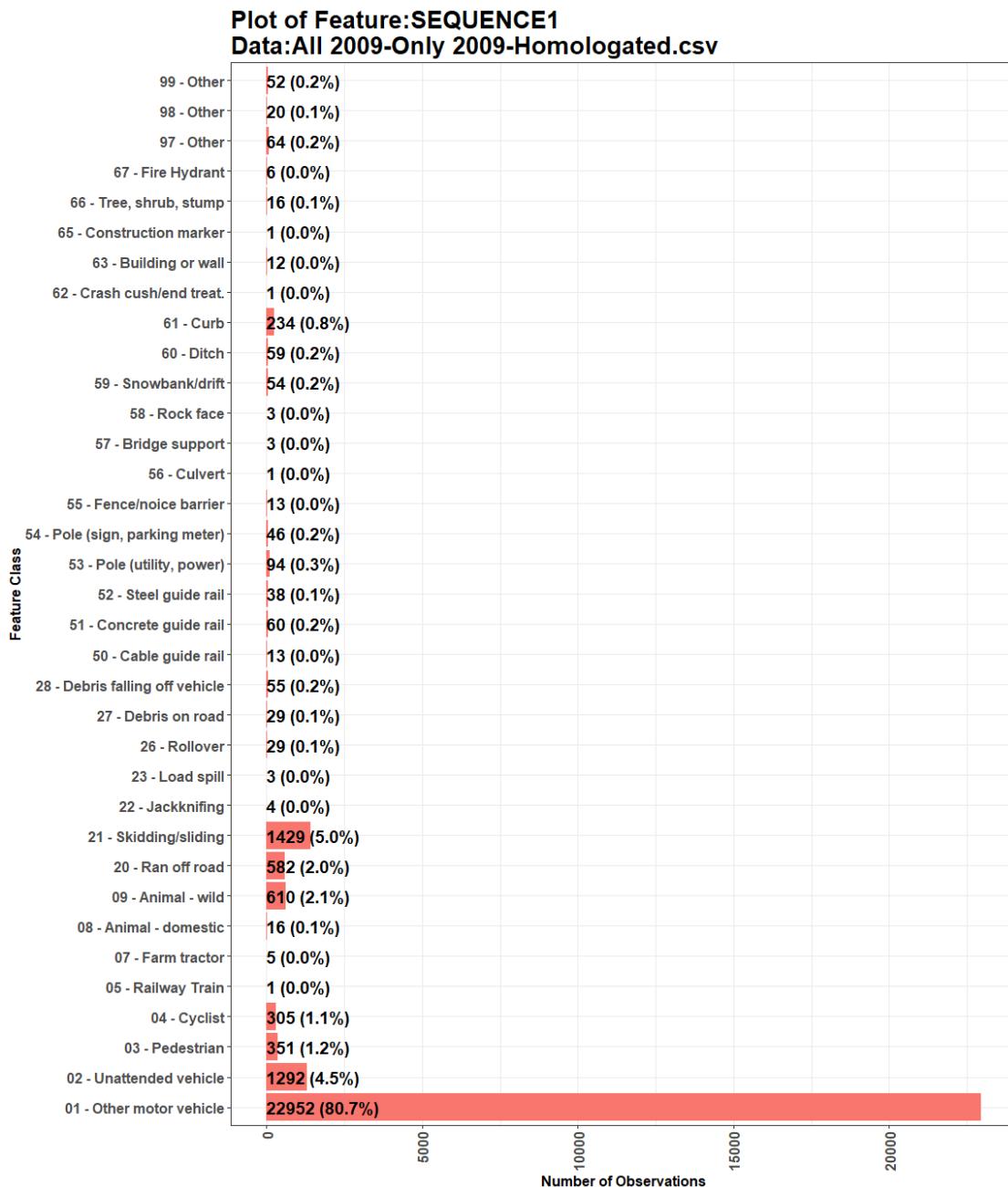
```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 01 - Other motor vehicle 23070 80.9417
## 02 - Unattended vehicle 1296 4.5470
## 03 - Pedestrian 359 1.2596
## 04 - Cyclist 299 1.0490
## 07 - Farm tractor 5 0.0175
## 08 - Animal - domestic 24 0.0842
## 09 - Animal - wild 631 2.2139
## 20 - Ran off road 684 2.3998
## 21 - Skidding/sliding 1126 3.9506
## 22 - Jackknifing 6 0.0211
## 23 - Load spill 8 0.0281
## 26 - Rollover 21 0.0737
## 27 - Debris on road 44 0.1544
## 28 - Debris falling off vehicle 79 0.2772
## 50 - Cable guide rail 6 0.0211
## 51 - Concrete guide rail 51 0.1789
## 52 - Steel guide rail 27 0.0947
## 53 - Pole (utility, power) 126 0.4421
## 54 - Pole (sign, parking meter) 64 0.2245
## 55 - Fence/noice barrier 9 0.0316
## 56 - Culvert 1 0.0035
## 57 - Bridge support 4 0.0140
## 58 - Rock face 3 0.0105
## 59 - Snowbank/drift 95 0.3333
## 60 - Ditch 53 0.1860
## 61 - Curb 233 0.8175
## 62 - Crash cush/end treat. 3 0.0105
## 63 - Building or wall 15 0.0526
## 65 - Construction marker 6 0.0211
## 66 - Tree, shrub, stump 13 0.0456
## 67 - Fire Hydrant 8 0.0281
## 97 - Other 58 0.2035
## 98 - Other 21 0.0737
## 99 - Other 54 0.1895
```



```
##  
## -----  
## CHECKING FEATURE:SEQUENCE1  
## DATA:All 2009-Only 2009-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 35
```

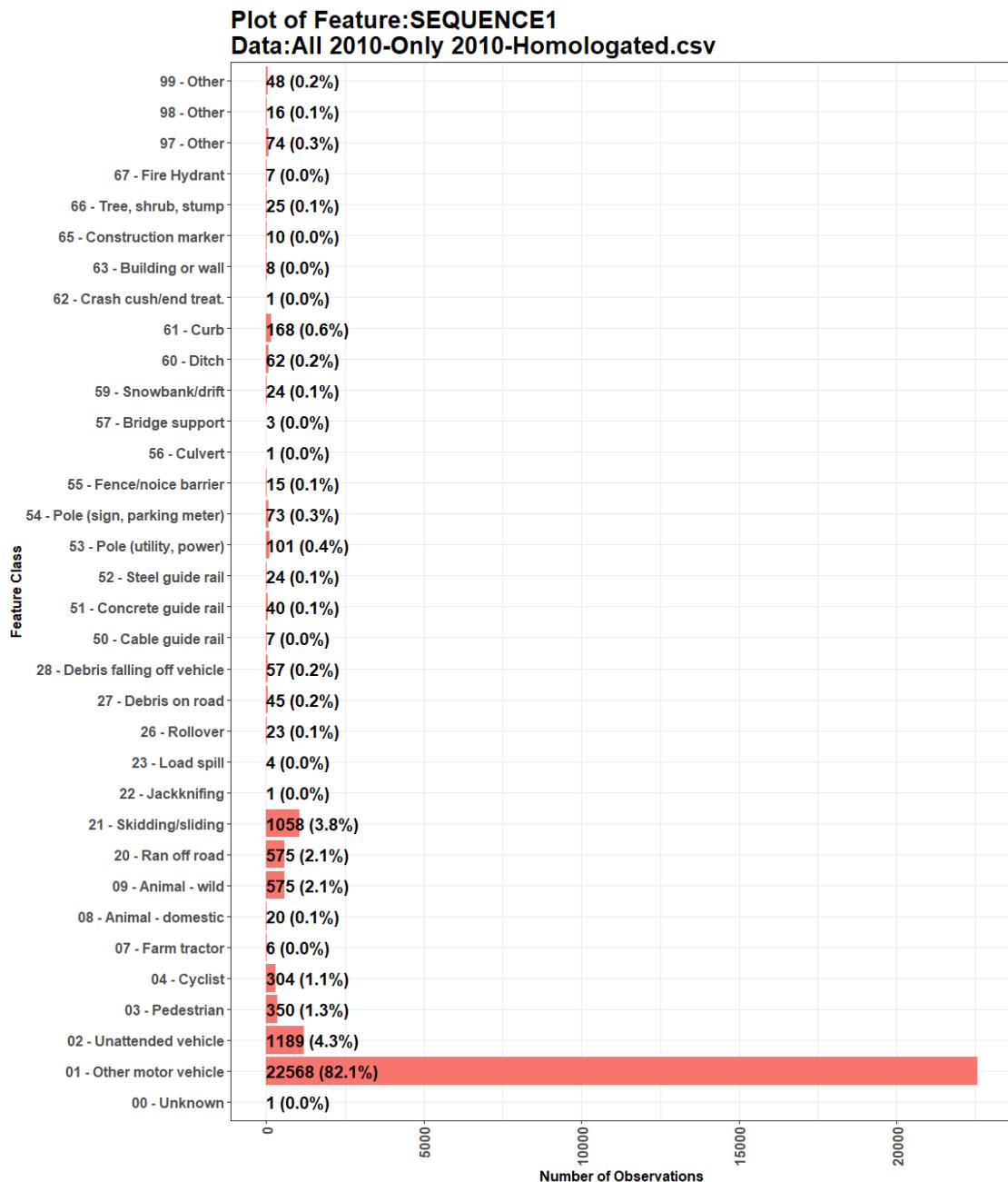
```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 01 - Other motor vehicle 22952 80.6664
## 02 - Unattended vehicle 1292 4.5408
## 03 - Pedestrian 351 1.2336
## 04 - Cyclist 305 1.0719
## 05 - Railway Train 1 0.0035
## 07 - Farm tractor 5 0.0176
## 08 - Animal - domestic 16 0.0562
## 09 - Animal - wild 610 2.1439
## 20 - Ran off road 582 2.0455
## 21 - Skidding/sliding 1429 5.0223
## 22 - Jackknifing 4 0.0141
## 23 - Load spill 3 0.0105
## 26 - Rollover 29 0.1019
## 27 - Debris on road 29 0.1019
## 28 - Debris falling off vehicle 55 0.1933
## 50 - Cable guide rail 13 0.0457
## 51 - Concrete guide rail 60 0.2109
## 52 - Steel guide rail 38 0.1336
## 53 - Pole (utility, power) 94 0.3304
## 54 - Pole (sign, parking meter) 46 0.1617
## 55 - Fence/noice barrier 13 0.0457
## 56 - Culvert 1 0.0035
## 57 - Bridge support 3 0.0105
## 58 - Rock face 3 0.0105
## 59 - Snowbank/drift 54 0.1898
## 60 - Ditch 59 0.2074
## 61 - Curb 234 0.8224
## 62 - Crash cush/end treat. 1 0.0035
## 63 - Building or wall 12 0.0422
## 65 - Construction marker 1 0.0035
## 66 - Tree, shrub, stump 16 0.0562
## 67 - Fire Hydrant 6 0.0211
## 97 - Other 64 0.2249
## 98 - Other 20 0.0703
## 99 - Other 52 0.1828
```



```
##  
## -----  
## CHECKING FEATURE:SEQUENCE1  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 34
```

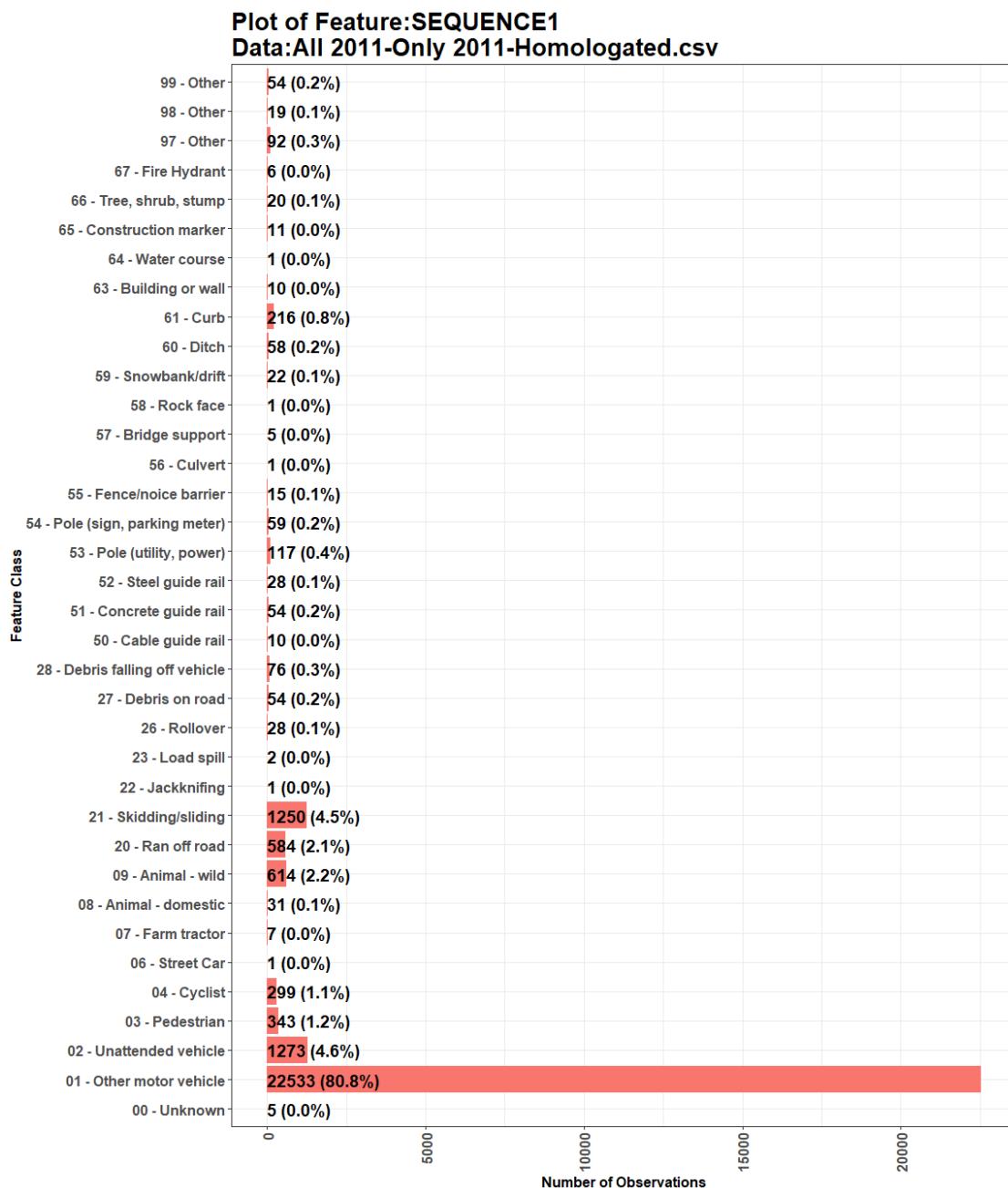


```
##  
## TOP 100 FEATURES OF SEQUENCE1  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1 0.0036  
## 01 - Other motor vehicle 22568 82.1162  
## 02 - Unattended vehicle 1189 4.3263  
## 03 - Pedestrian 350 1.2735  
## 04 - Cyclist 304 1.1061  
## 07 - Farm tractor 6 0.0218  
## 08 - Animal - domestic 20 0.0728  
## 09 - Animal - wild 575 2.0922  
## 20 - Ran off road 575 2.0922  
## 21 - Skidding/sliding 1058 3.8497  
## 22 - Jackknifing 1 0.0036  
## 23 - Load spill 4 0.0146  
## 26 - Rollover 23 0.0837  
## 27 - Debris on road 45 0.1637  
## 28 - Debris falling off vehicle 57 0.2074  
## 50 - Cable guide rail 7 0.0255  
## 51 - Concrete guide rail 40 0.1455  
## 52 - Steel guide rail 24 0.0873  
## 53 - Pole (utility, power) 101 0.3675  
## 54 - Pole (sign, parking meter) 73 0.2656  
## 55 - Fence/noice barrier 15 0.0546  
## 56 - Culvert 1 0.0036  
## 57 - Bridge support 3 0.0109  
## 59 - Snowbank/drift 24 0.0873  
## 60 - Ditch 62 0.2256  
## 61 - Curb 168 0.6113  
## 62 - Crash cush/end treat. 1 0.0036  
## 63 - Building or wall 8 0.0291  
## 65 - Construction marker 10 0.0364  
## 66 - Tree, shrub, stump 25 0.0910  
## 67 - Fire Hydrant 7 0.0255  
## 97 - Other 74 0.2693  
## 98 - Other 16 0.0582  
## 99 - Other 48 0.1747
```



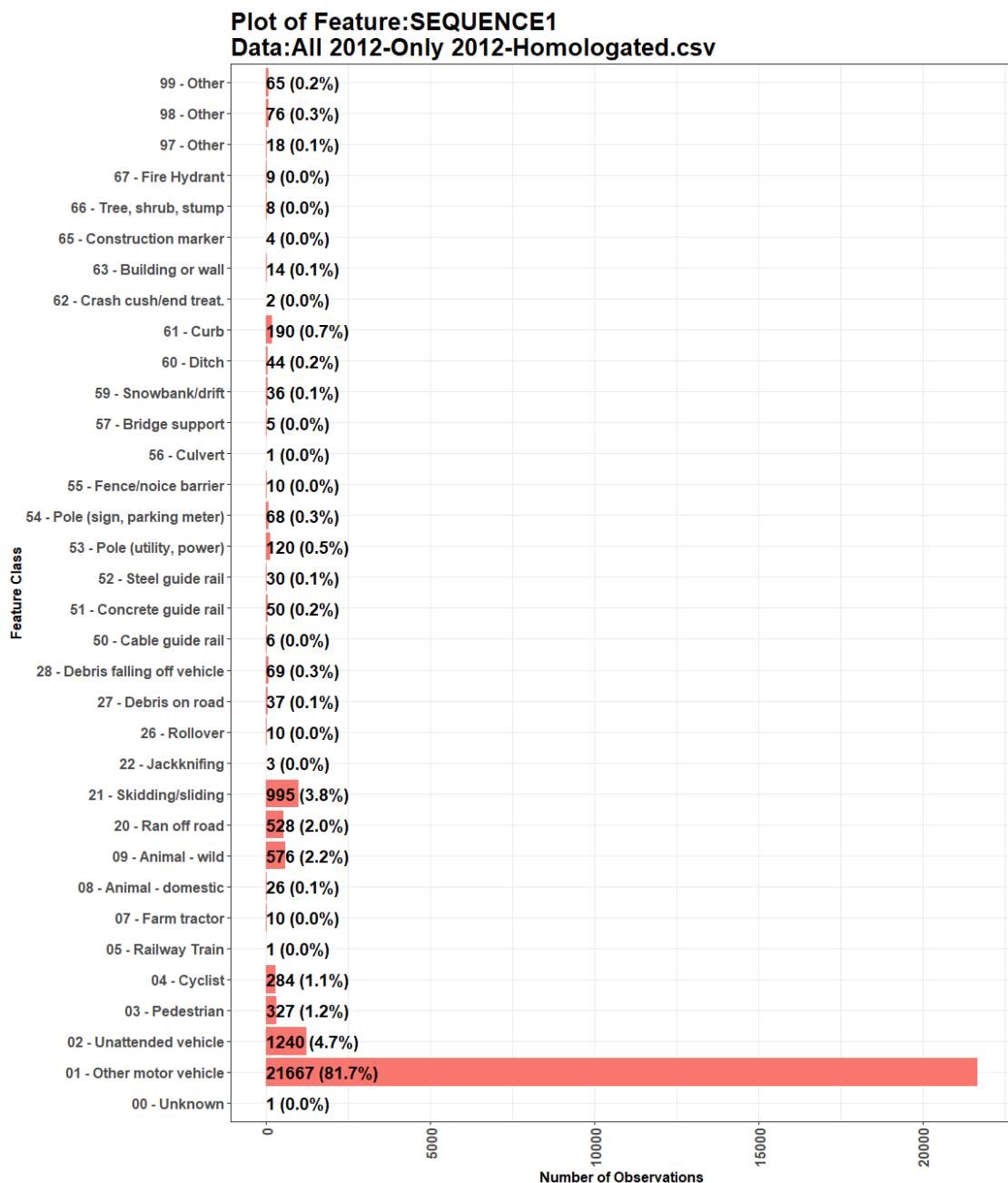
```
##  
## -----  
## CHECKING FEATURE:SEQUENCE1  
## DATA:All 2011-Only 2011-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 36
```

```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 5 0.0179
## 01 - Other motor vehicle 22533 80.7634
## 02 - Unattended vehicle 1273 4.5627
## 03 - Pedestrian 343 1.2294
## 04 - Cyclist 299 1.0717
## 06 - Street Car 1 0.0036
## 07 - Farm tractor 7 0.0251
## 08 - Animal - domestic 31 0.1111
## 09 - Animal - wild 614 2.2007
## 20 - Ran off road 584 2.0932
## 21 - Skidding/sliding 1250 4.4803
## 22 - Jackknifing 1 0.0036
## 23 - Load spill 2 0.0072
## 26 - Rollover 28 0.1004
## 27 - Debris on road 54 0.1935
## 28 - Debris falling off vehicle 76 0.2724
## 50 - Cable guide rail 10 0.0358
## 51 - Concrete guide rail 54 0.1935
## 52 - Steel guide rail 28 0.1004
## 53 - Pole (utility, power) 117 0.4194
## 54 - Pole (sign, parking meter) 59 0.2115
## 55 - Fence/noice barrier 15 0.0538
## 56 - Culvert 1 0.0036
## 57 - Bridge support 5 0.0179
## 58 - Rock face 1 0.0036
## 59 - Snowbank/drift 22 0.0789
## 60 - Ditch 58 0.2079
## 61 - Curb 216 0.7742
## 63 - Building or wall 10 0.0358
## 64 - Water course 1 0.0036
## 65 - Construction marker 11 0.0394
## 66 - Tree, shrub, stump 20 0.0717
## 67 - Fire Hydrant 6 0.0215
## 97 - Other 92 0.3297
## 98 - Other 19 0.0681
## 99 - Other 54 0.1935
```



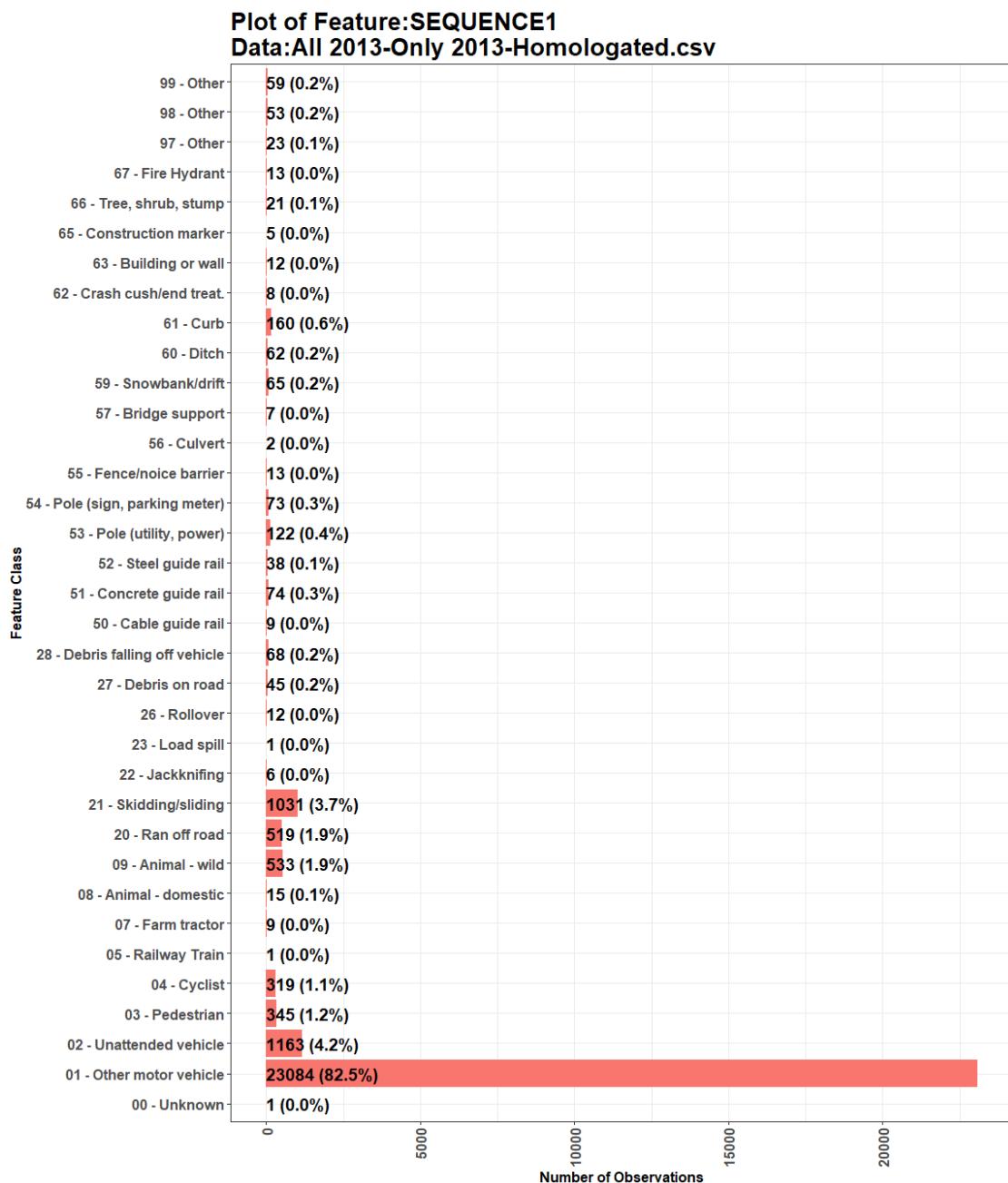
```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1 0.0038
## 01 - Other motor vehicle 21667 81.6698
## 02 - Unattended vehicle 1240 4.6740
## 03 - Pedestrian 327 1.2326
## 04 - Cyclist 284 1.0705
## 05 - Railway Train 1 0.0038
## 07 - Farm tractor 10 0.0377
## 08 - Animal - domestic 26 0.0980
## 09 - Animal - wild 576 2.1711
## 20 - Ran off road 528 1.9902
## 21 - Skidding/sliding 995 3.7505
## 22 - Jackknifing 3 0.0113
## 26 - Rollover 10 0.0377
## 27 - Debris on road 37 0.1395
## 28 - Debris falling off vehicle 69 0.2601
## 50 - Cable guide rail 6 0.0226
## 51 - Concrete guide rail 50 0.1885
## 52 - Steel guide rail 30 0.1131
## 53 - Pole (utility, power) 120 0.4523
## 54 - Pole (sign, parking meter) 68 0.2563
## 55 - Fence/noice barrier 10 0.0377
## 56 - Culvert 1 0.0038
## 57 - Bridge support 5 0.0188
## 59 - Snowbank/drift 36 0.1357
## 60 - Ditch 44 0.1658
## 61 - Curb 190 0.7162
## 62 - Crash cush/end treat. 2 0.0075
## 63 - Building or wall 14 0.0528
## 65 - Construction marker 4 0.0151
## 66 - Tree, shrub, stump 8 0.0302
## 67 - Fire Hydrant 9 0.0339
## 97 - Other 18 0.0678
## 98 - Other 76 0.2865
## 99 - Other 65 0.2450
```



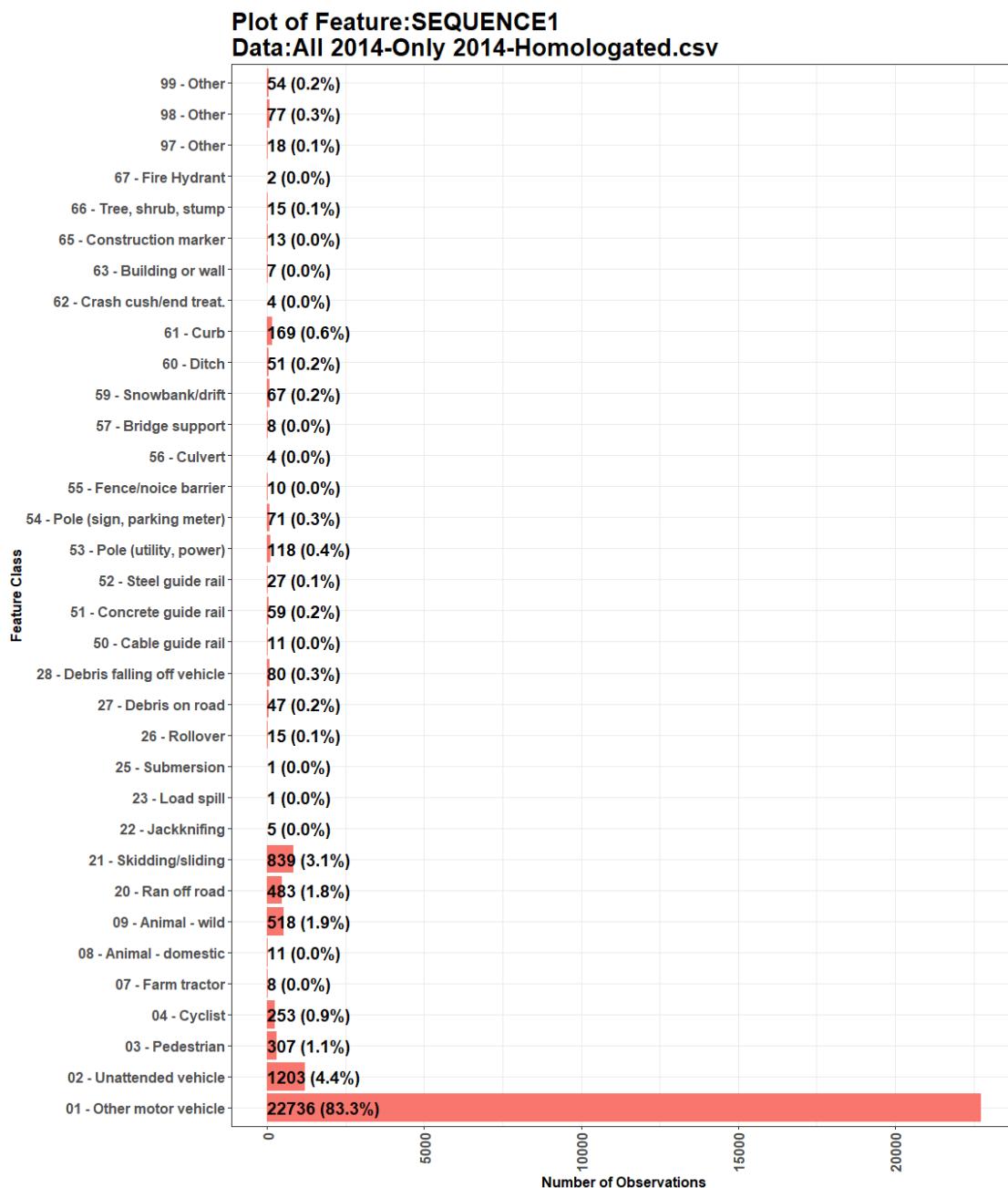
```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1 0.0036
## 01 - Other motor vehicle 23084 82.5283
## 02 - Unattended vehicle 1163 4.1579
## 03 - Pedestrian 345 1.2334
## 04 - Cyclist 319 1.1405
## 05 - Railway Train 1 0.0036
## 07 - Farm tractor 9 0.0322
## 08 - Animal - domestic 15 0.0536
## 09 - Animal - wild 533 1.9055
## 20 - Ran off road 519 1.8555
## 21 - Skidding/sliding 1031 3.6860
## 22 - Jackknifing 6 0.0215
## 23 - Load spill 1 0.0036
## 26 - Rollover 12 0.0429
## 27 - Debris on road 45 0.1609
## 28 - Debris falling off vehicle 68 0.2431
## 50 - Cable guide rail 9 0.0322
## 51 - Concrete guide rail 74 0.2646
## 52 - Steel guide rail 38 0.1359
## 53 - Pole (utility, power) 122 0.4362
## 54 - Pole (sign, parking meter) 73 0.2610
## 55 - Fence/noice barrier 13 0.0465
## 56 - Culvert 2 0.0072
## 57 - Bridge support 7 0.0250
## 59 - Snowbank/drift 65 0.2324
## 60 - Ditch 62 0.2217
## 61 - Curb 160 0.5720
## 62 - Crash cush/end treat. 8 0.0286
## 63 - Building or wall 12 0.0429
## 65 - Construction marker 5 0.0179
## 66 - Tree, shrub, stump 21 0.0751
## 67 - Fire Hydrant 13 0.0465
## 97 - Other 23 0.0822
## 98 - Other 53 0.1895
## 99 - Other 59 0.2109
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

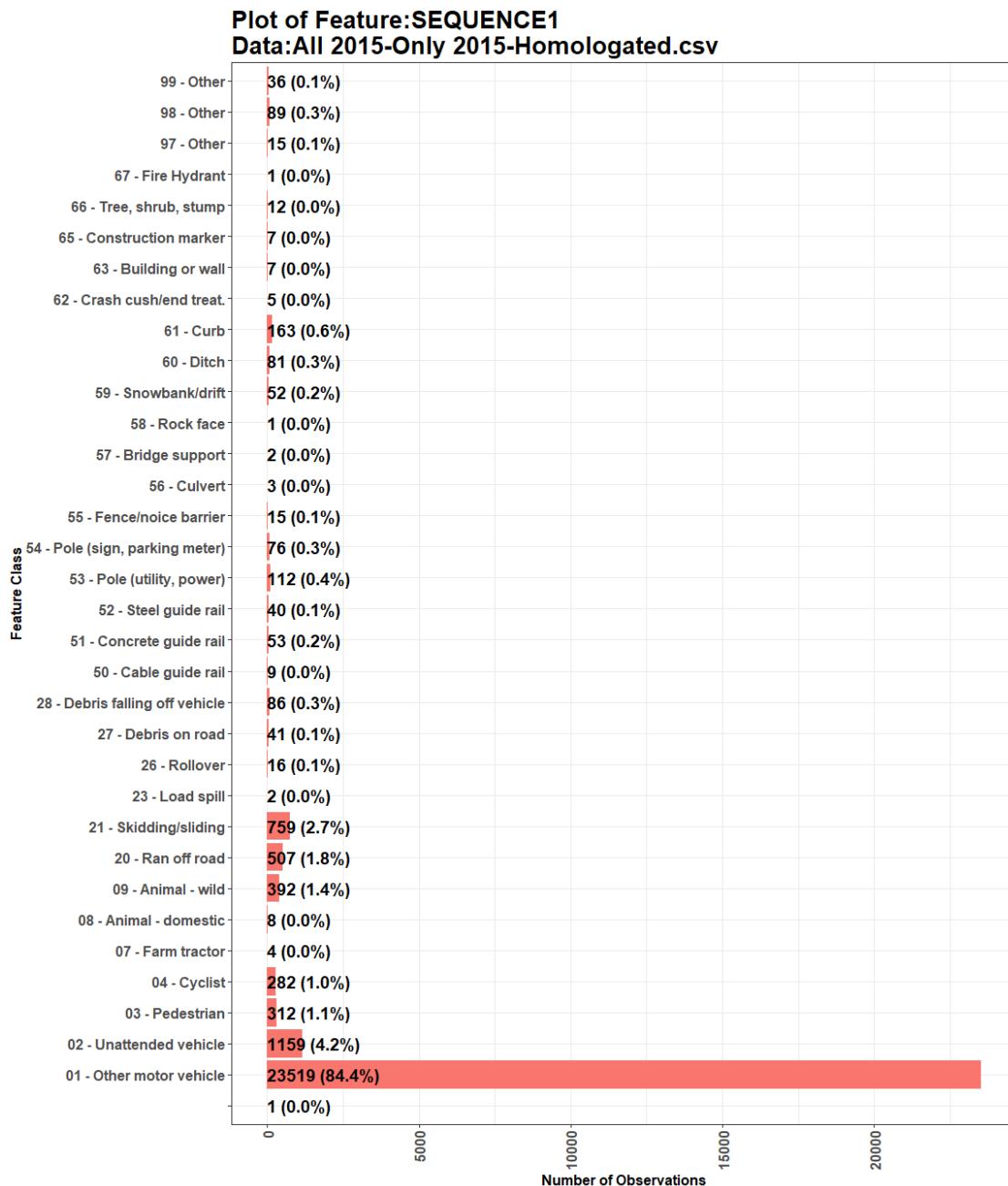
```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 01 - Other motor vehicle 22736 83.3065
## 02 - Unattended vehicle 1203 4.4079
## 03 - Pedestrian 307 1.1249
## 04 - Cyclist 253 0.9270
## 07 - Farm tractor 8 0.0293
## 08 - Animal - domestic 11 0.0403
## 09 - Animal - wild 518 1.8980
## 20 - Ran off road 483 1.7697
## 21 - Skidding/sliding 839 3.0742
## 22 - Jackknifing 5 0.0183
## 23 - Load spill 1 0.0037
## 25 - Submersion 1 0.0037
## 26 - Rollover 15 0.0550
## 27 - Debris on road 47 0.1722
## 28 - Debris falling off vehicle 80 0.2931
## 50 - Cable guide rail 11 0.0403
## 51 - Concrete guide rail 59 0.2162
## 52 - Steel guide rail 27 0.0989
## 53 - Pole (utility, power) 118 0.4324
## 54 - Pole (sign, parking meter) 71 0.2601
## 55 - Fence/noice barrier 10 0.0366
## 56 - Culvert 4 0.0147
## 57 - Bridge support 8 0.0293
## 59 - Snowbank/drift 67 0.2455
## 60 - Ditch 51 0.1869
## 61 - Curb 169 0.6192
## 62 - Crash cush/end treat. 4 0.0147
## 63 - Building or wall 7 0.0256
## 65 - Construction marker 13 0.0476
## 66 - Tree, shrub, stump 15 0.0550
## 67 - Fire Hydrant 2 0.0073
## 97 - Other 18 0.0660
## 98 - Other 77 0.2821
## 99 - Other 54 0.1979
```



```
##  
## -----  
## CHECKING FEATURE:SEQUENCE1  
## DATA:All 2015-Only 2015-Homologated.csv...  
##  
## Number of Blank Values:1  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 34
```

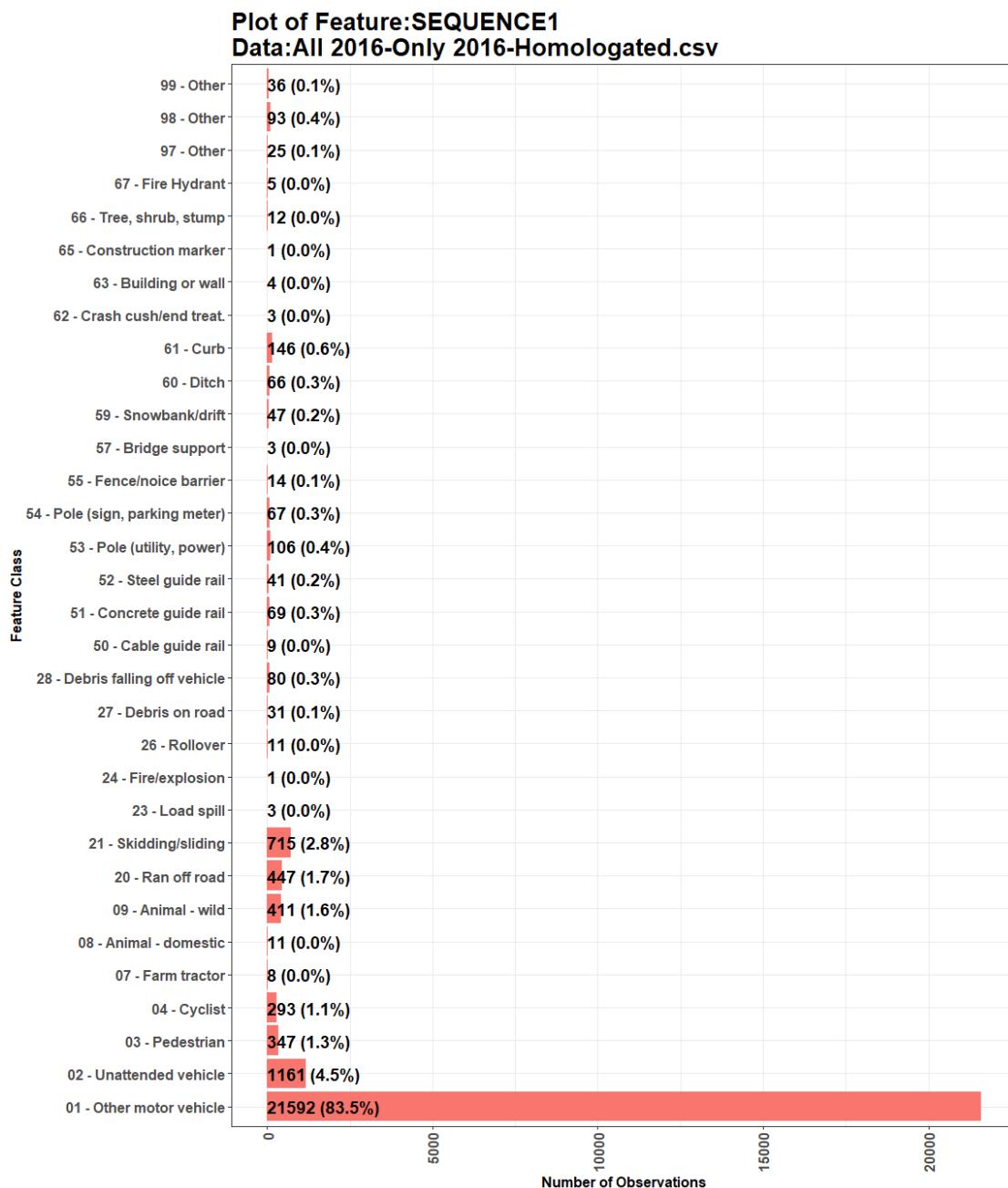


```
##  
## TOP 100 FEATURES OF SEQUENCE1  
##  
## Feature Value Counter Percentage  
## -----  
## 1 - Other motor vehicle 1 0.0036  
## 01 - Other motor vehicle 23519 84.3973  
## 02 - Unattended vehicle 1159 4.1590  
## 03 - Pedestrian 312 1.1196  
## 04 - Cyclist 282 1.0119  
## 07 - Farm tractor 4 0.0144  
## 08 - Animal - domestic 8 0.0287  
## 09 - Animal - wild 392 1.4067  
## 20 - Ran off road 507 1.8194  
## 21 - Skidding/sliding 759 2.7237  
## 23 - Load spill 2 0.0072  
## 26 - Rollover 16 0.0574  
## 27 - Debris on road 41 0.1471  
## 28 - Debris falling off vehicle 86 0.3086  
## 50 - Cable guide rail 9 0.0323  
## 51 - Concrete guide rail 53 0.1902  
## 52 - Steel guide rail 40 0.1435  
## 53 - Pole (utility, power) 112 0.4019  
## 54 - Pole (sign, parking meter) 76 0.2727  
## 55 - Fence/noice barrier 15 0.0538  
## 56 - Culvert 3 0.0108  
## 57 - Bridge support 2 0.0072  
## 58 - Rock face 1 0.0036  
## 59 - Snowbank/drift 52 0.1866  
## 60 - Ditch 81 0.2907  
## 61 - Curb 163 0.5849  
## 62 - Crash cush/end treat. 5 0.0179  
## 63 - Building or wall 7 0.0251  
## 65 - Construction marker 7 0.0251  
## 66 - Tree, shrub, stump 12 0.0431  
## 67 - Fire Hydrant 1 0.0036  
## 97 - Other 15 0.0538  
## 98 - Other 89 0.3194  
## 99 - Other 36 0.1292
```



```
##  
## -----  
## CHECKING FEATURE:SEQUENCE1  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 32
```

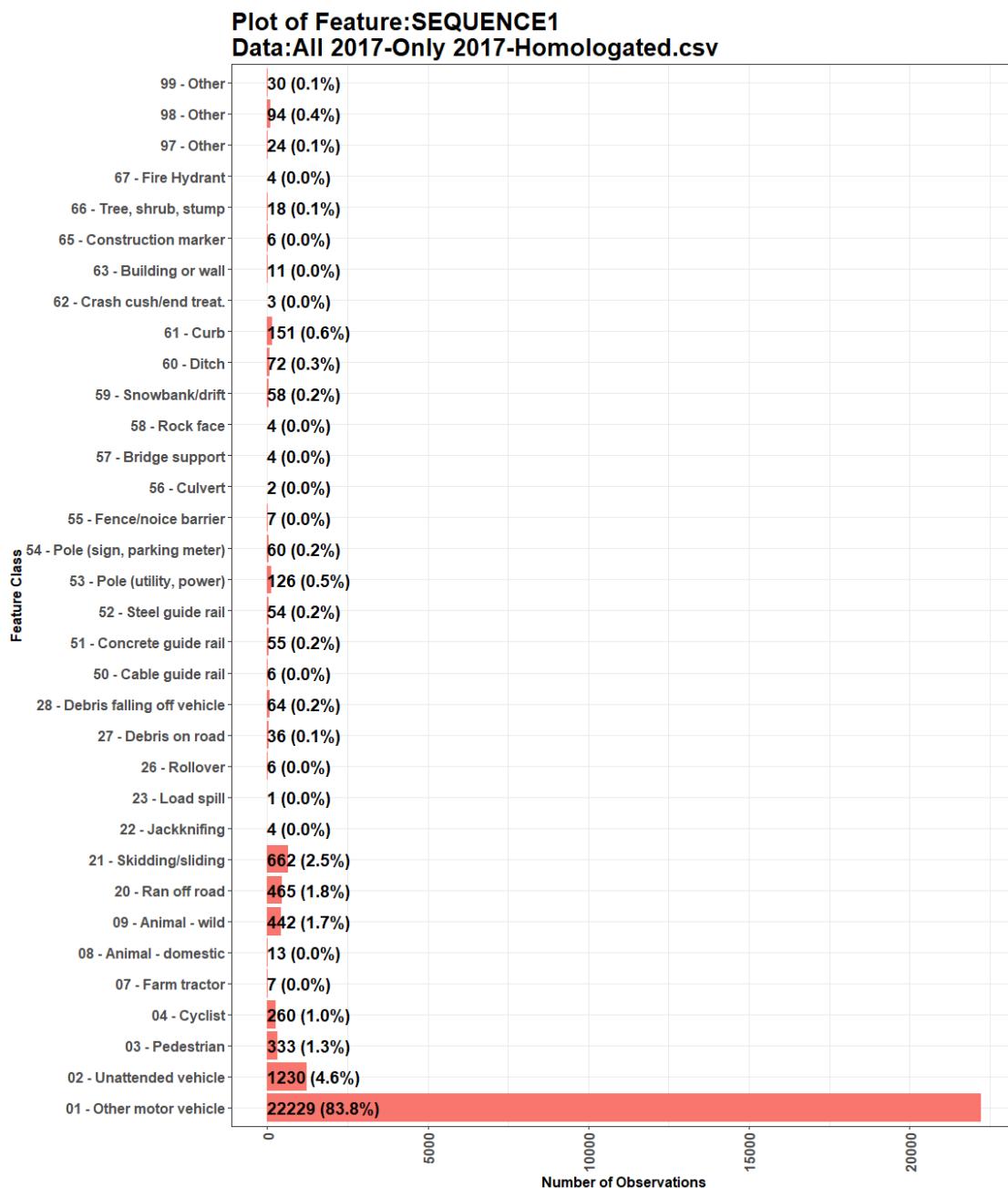
```
##
## TOP 100 FEATURES OF SEQUENCE1
##
## Feature Value Counter Percentage
## -----
## 01 - Other motor vehicle 21592 83.5022
## 02 - Unattended vehicle 1161 4.4899
## 03 - Pedestrian 347 1.3419
## 04 - Cyclist 293 1.1331
## 07 - Farm tractor 8 0.0309
## 08 - Animal - domestic 11 0.0425
## 09 - Animal - wild 411 1.5895
## 20 - Ran off road 447 1.7287
## 21 - Skidding/sliding 715 2.7651
## 23 - Load spill 3 0.0116
## 24 - Fire/explosion 1 0.0039
## 26 - Rollover 11 0.0425
## 27 - Debris on road 31 0.1199
## 28 - Debris falling off vehicle 80 0.3094
## 50 - Cable guide rail 9 0.0348
## 51 - Concrete guide rail 69 0.2668
## 52 - Steel guide rail 41 0.1586
## 53 - Pole (utility, power) 106 0.4099
## 54 - Pole (sign, parking meter) 67 0.2591
## 55 - Fence/noice barrier 14 0.0541
## 57 - Bridge support 3 0.0116
## 59 - Snowbank/drift 47 0.1818
## 60 - Ditch 66 0.2552
## 61 - Curb 146 0.5646
## 62 - Crash cush/end treat. 3 0.0116
## 63 - Building or wall 4 0.0155
## 65 - Construction marker 1 0.0039
## 66 - Tree, shrub, stump 12 0.0464
## 67 - Fire Hydrant 5 0.0193
## 97 - Other 25 0.0967
## 98 - Other 93 0.3597
## 99 - Other 36 0.1392
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE1
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

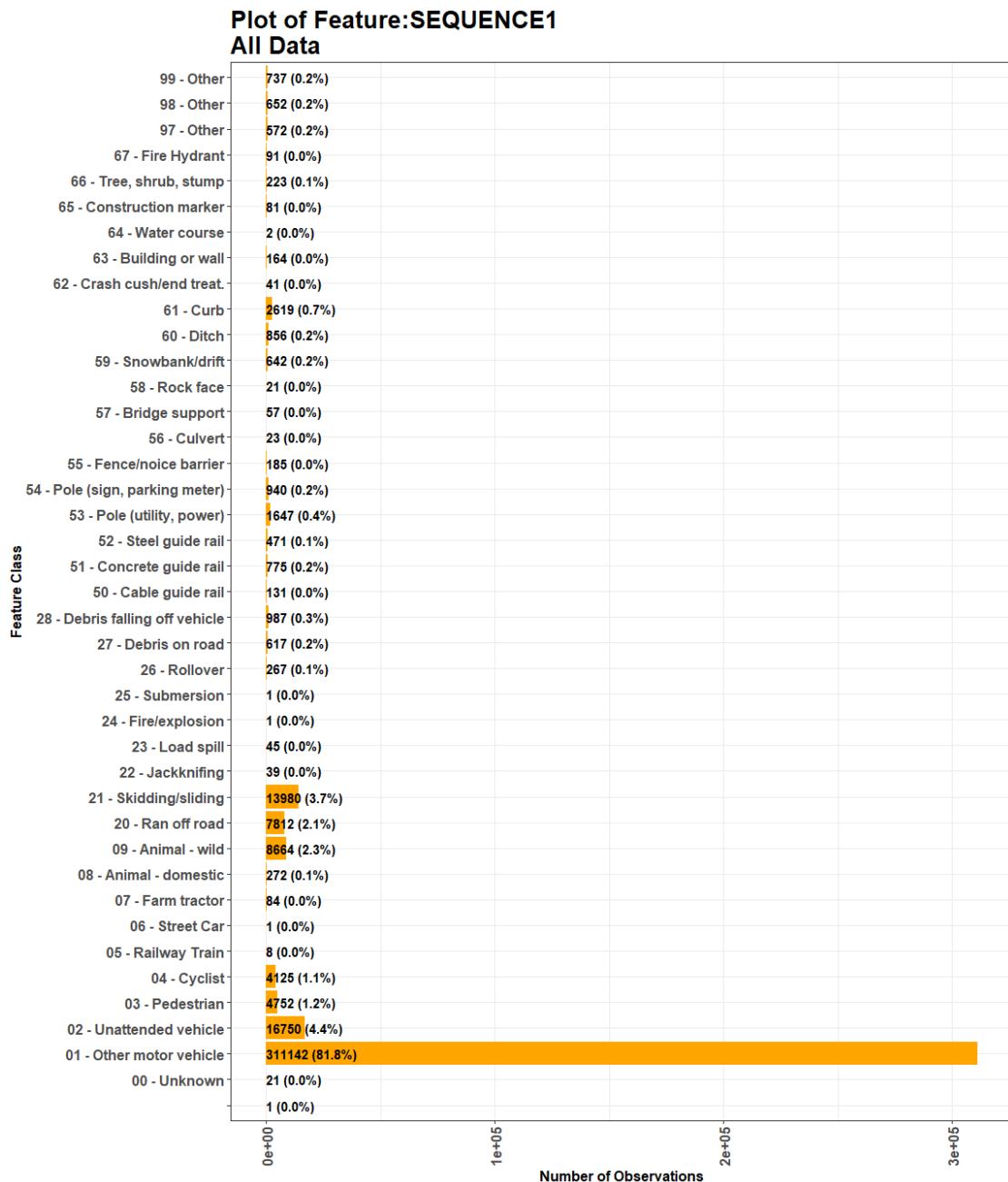


```
##  
## TOP 100 FEATURES OF SEQUENCE1  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Other motor vehicle 22229 83.7534  
## 02 - Unattended vehicle 1230 4.6343  
## 03 - Pedestrian 333 1.2547  
## 04 - Cyclist 260 0.9796  
## 07 - Farm tractor 7 0.0264  
## 08 - Animal - domestic 13 0.0490  
## 09 - Animal - wild 442 1.6653  
## 20 - Ran off road 465 1.7520  
## 21 - Skidding/sliding 662 2.4943  
## 22 - Jackknifing 4 0.0151  
## 23 - Load spill 1 0.0038  
## 26 - Rollover 6 0.0226  
## 27 - Debris on road 36 0.1356  
## 28 - Debris falling off vehicle 64 0.2411  
## 50 - Cable guide rail 6 0.0226  
## 51 - Concrete guide rail 55 0.2072  
## 52 - Steel guide rail 54 0.2035  
## 53 - Pole (utility, power) 126 0.4747  
## 54 - Pole (sign, parking meter) 60 0.2261  
## 55 - Fence/noice barrier 7 0.0264  
## 56 - Culvert 2 0.0075  
## 57 - Bridge support 4 0.0151  
## 58 - Rock face 4 0.0151  
## 59 - Snowbank/drift 58 0.2185  
## 60 - Ditch 72 0.2713  
## 61 - Curb 151 0.5689  
## 62 - Crash cush/end treat. 3 0.0113  
## 63 - Building or wall 11 0.0414  
## 65 - Construction marker 6 0.0226  
## 66 - Tree, shrub, stump 18 0.0678  
## 67 - Fire Hydrant 4 0.0151  
## 97 - Other 24 0.0904  
## 98 - Other 94 0.3542  
## 99 - Other 30 0.1130
```



```
##
## =====
## FINAL INFO CHECKING FEATURE:SEQUENCE1
## ALL DATA...
## =====
## Number of Blank Values:1
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
```

```
##          25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##          26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858          26541
##
##
## Summary as Factor Feature:
## Number of Features: 41
```



```
## [1] "TOP 100 FEATURES COUNTERS OF:SEQUENCE1"
```

Feature Value	Counter	Percentage
	1	0.0003
00 - Unknown	21	0.0055
01 - Other motor vehicle	311142	81.7721
02 - Unattended vehicle	16750	4.4021
03 - Pedestrian	4752	1.2489

04 - Cyclist	4125	1.0841
05 - Railway Train	8	0.0021
06 - Street Car	1	0.0003
07 - Farm tractor	84	0.0221
08 - Animal - domestic	272	0.0715
09 - Animal - wild	8664	2.2770
20 - Ran off road	7812	2.0531
21 - Skidding/sliding	13980	3.6741
22 - Jackknifing	39	0.0102
23 - Load spill	45	0.0118
24 - Fire/explosion	1	0.0003
25 - Submersion	1	0.0003
26 - Rollover	267	0.0702
27 - Debris on road	617	0.1622
28 - Debris falling off vehicle	987	0.2594
50 - Cable guide rail	131	0.0344
51 - Concrete guide rail	775	0.2037
52 - Steel guide rail	471	0.1238
53 - Pole (utility, power)	1647	0.4329
54 - Pole (sign, parking meter)	940	0.2470
55 - Fence/noice barrier	185	0.0486
56 - Culvert	23	0.0060
57 - Bridge support	57	0.0150
58 - Rock face	21	0.0055
59 - Snowbank/drift	642	0.1687
60 - Ditch	856	0.2250
61 - Curb	2619	0.6883
62 - Crash cush/end treat.	41	0.0108
63 - Building or wall	164	0.0431
64 - Water course	2	0.0005
65 - Construction marker	81	0.0213
66 - Tree, shrub, stump	223	0.0586
67 - Fire Hydrant	91	0.0239
97 - Other	572	0.1503
98 - Other	652	0.1714

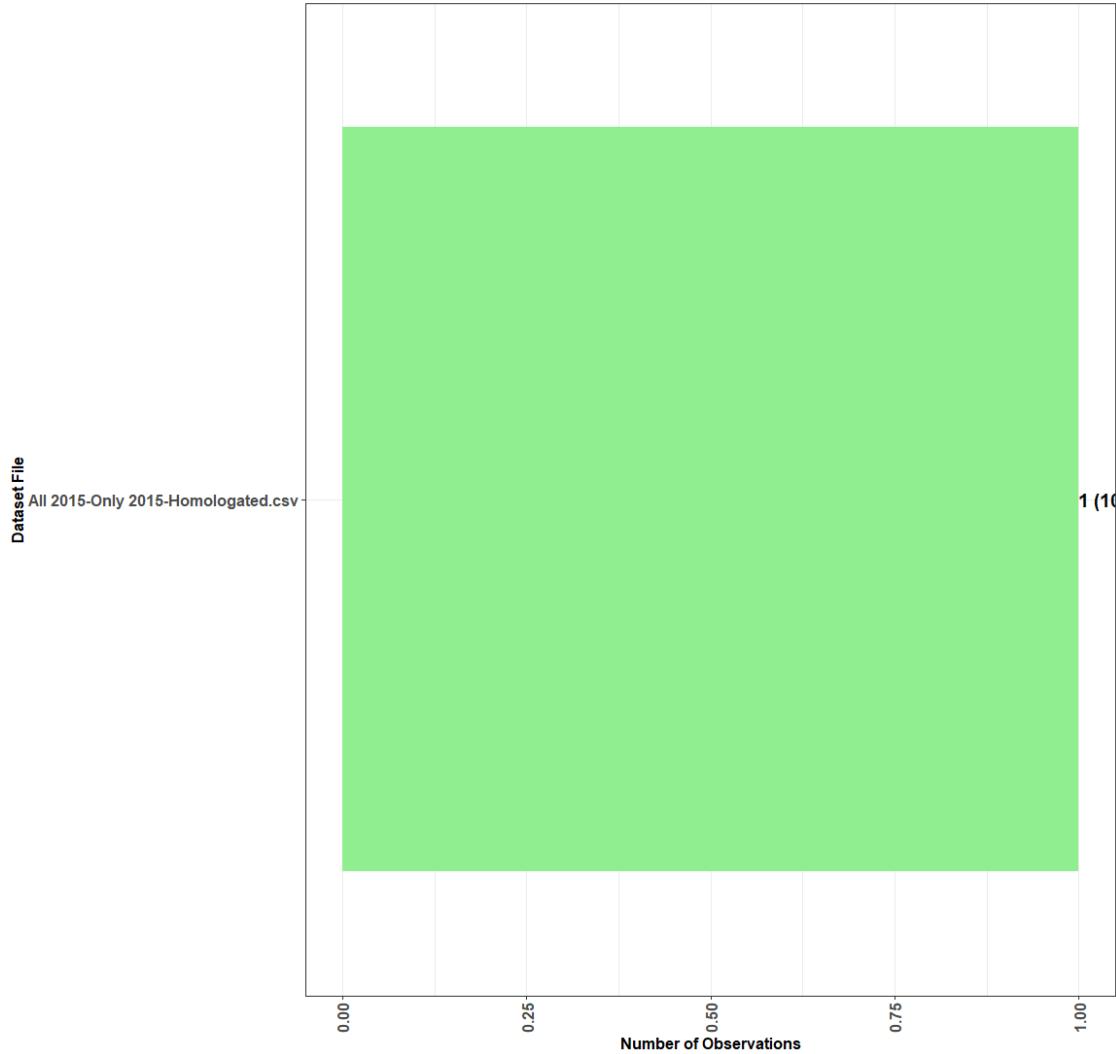
99 - Other 737 0.1937

19.1 SEQUENCE1 = "" (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE1=)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
##
```

1

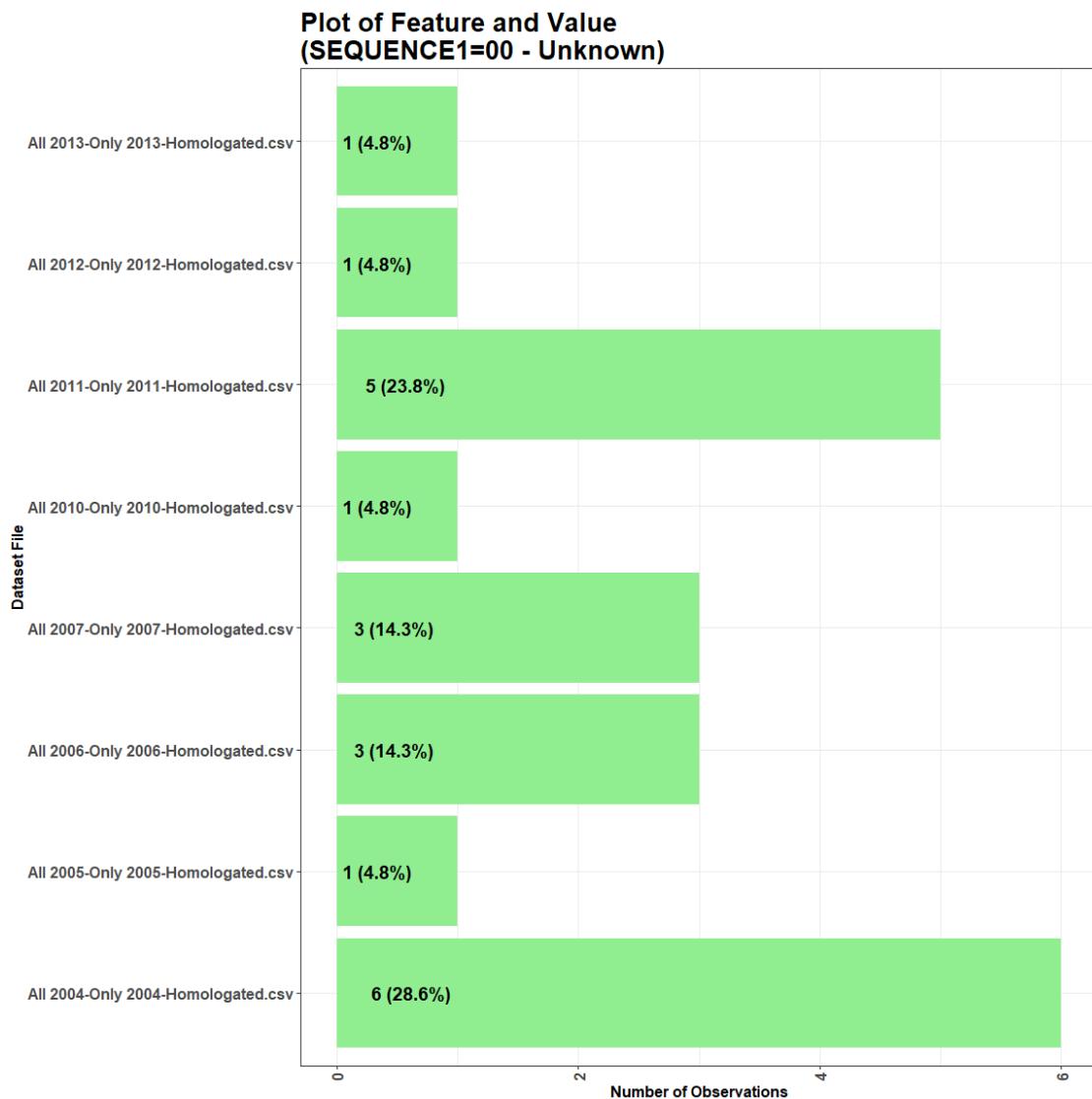
**Plot of Feature and Value
(SEQUENCE1=)**



DATASET FILE	COUNTER OF (SEQUENCE1=)	Percentage
All 2015-Only 2015-Homologated.csv	1	100

19.2 SEQUENCE1 = “00 - Unknown”

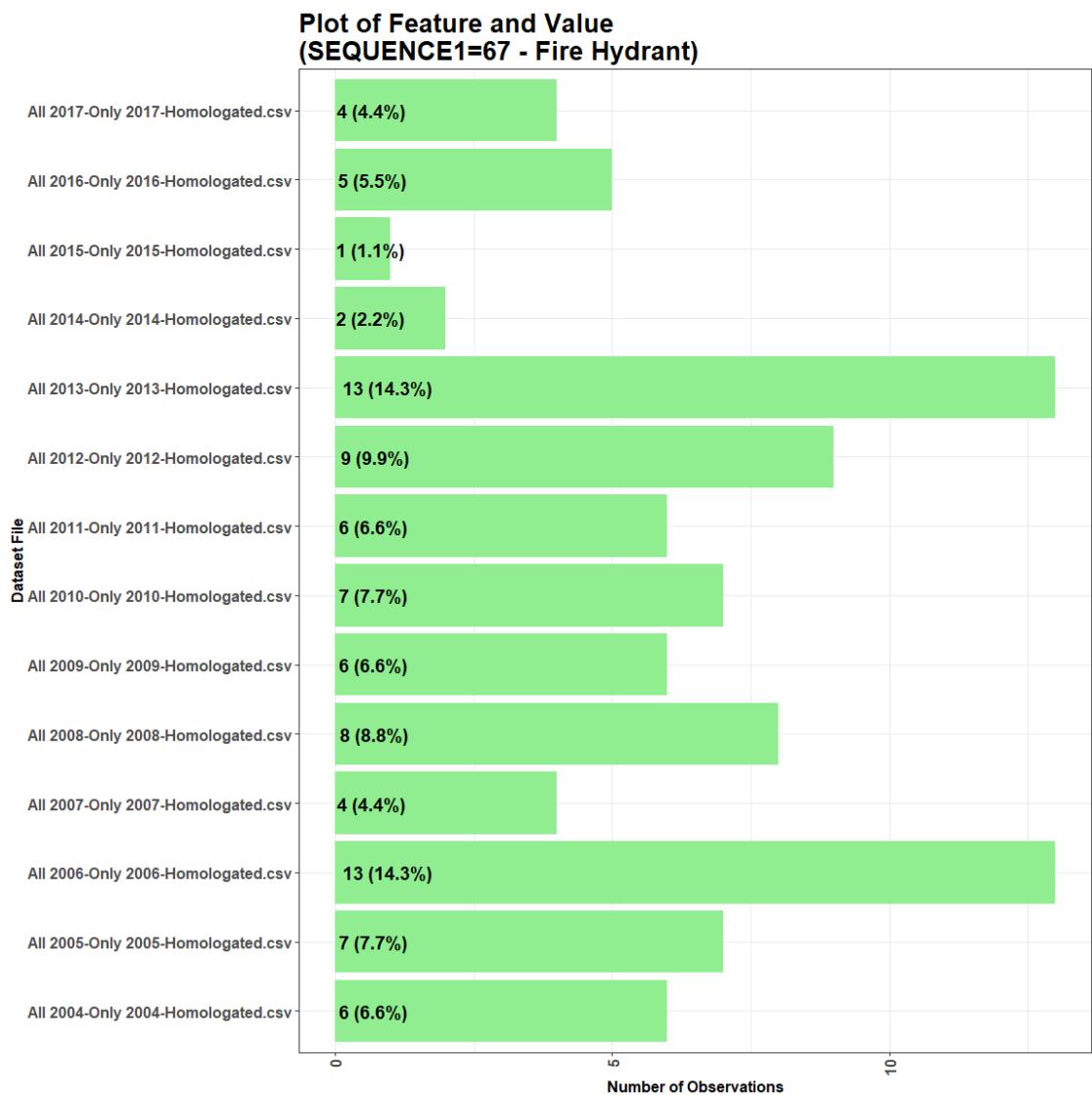
```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE1=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 6 1  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 3 3  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 1 5  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 1 1
```



DATASET FILE	COUNTER OF (SEQUENCE1=00 - Unknown)		Percentage
		Unknown	
All 2004-Only 2004-Homologated.csv	6	28.571	
All 2005-Only 2005-Homologated.csv	1	4.762	
All 2006-Only 2006-Homologated.csv	3	14.286	
All 2007-Only 2007-Homologated.csv	3	14.286	
All 2010-Only 2010-Homologated.csv	1	4.762	
All 2011-Only 2011-Homologated.csv	5	23.809	
All 2012-Only 2012-Homologated.csv	1	4.762	
All 2013-Only 2013-Homologated.csv	1	4.762	

19.3 SEQUENCE1 = “67 - Fire Hydrant”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (SEQUENCE1=67 - Fire Hydrant)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 6 7  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 13 4  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 8 6  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 7 6  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 9 13  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 2 1  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 5 4
```



DATASET FILE	COUNTER OF (SEQUENCE1=67 - Fire Hydrant)		Percentage
	Value	Percentage	
All 2004-Only 2004-Homologated.csv	6	6.593	
All 2005-Only 2005-Homologated.csv	7	7.692	
All 2006-Only 2006-Homologated.csv	13	14.286	
All 2007-Only 2007-Homologated.csv	4	4.396	
All 2008-Only 2008-Homologated.csv	8	8.791	

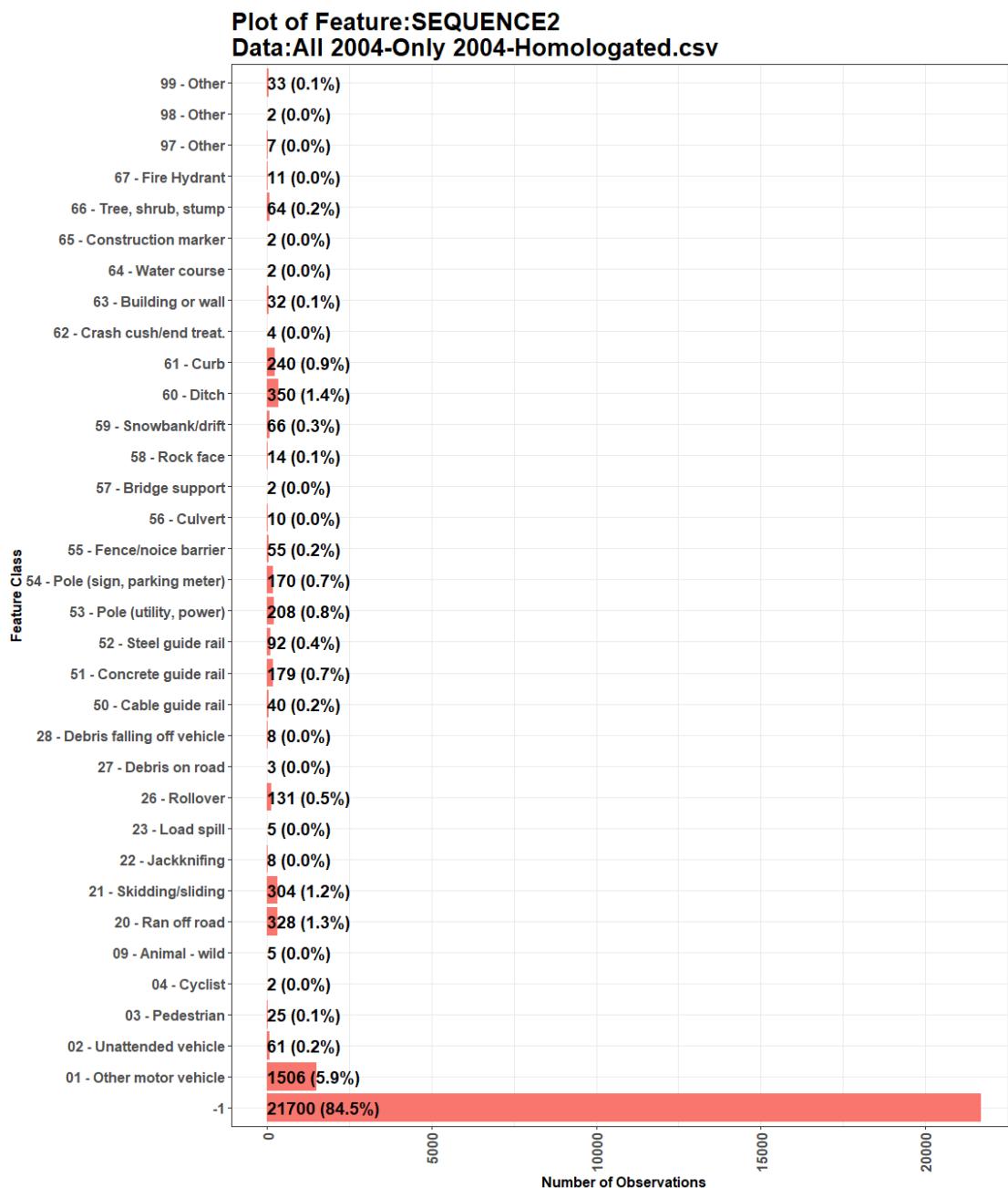
All 2009-Only 2009-Homologated.csv	6	6.593
All 2010-Only 2010-Homologated.csv	7	7.692
All 2011-Only 2011-Homologated.csv	6	6.593
All 2012-Only 2012-Homologated.csv	9	9.890
All 2013-Only 2013-Homologated.csv	13	14.286
All 2014-Only 2014-Homologated.csv	2	2.198
All 2015-Only 2015-Homologated.csv	1	1.099
All 2016-Only 2016-Homologated.csv	5	5.495
All 2017-Only 2017-Homologated.csv	4	4.396

20. Sequence2 (SEQUENCE2)

```
##  
## -----  
## CHECKING FEATURE:SEQUENCE2  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 34  
##  
## TOP 100 FEATURES OF SEQUENCE2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 21700 84.5378  
## 01 - Other motor vehicle 1506 5.8670  
## 02 - Unattended vehicle 61 0.2376  
## 03 - Pedestrian 25 0.0974  
## 04 - Cyclist 2 0.0078  
## 09 - Animal - wild 5 0.0195  
## 20 - Ran off road 328 1.2778  
## 21 - Skidding/sliding 304 1.1843
```

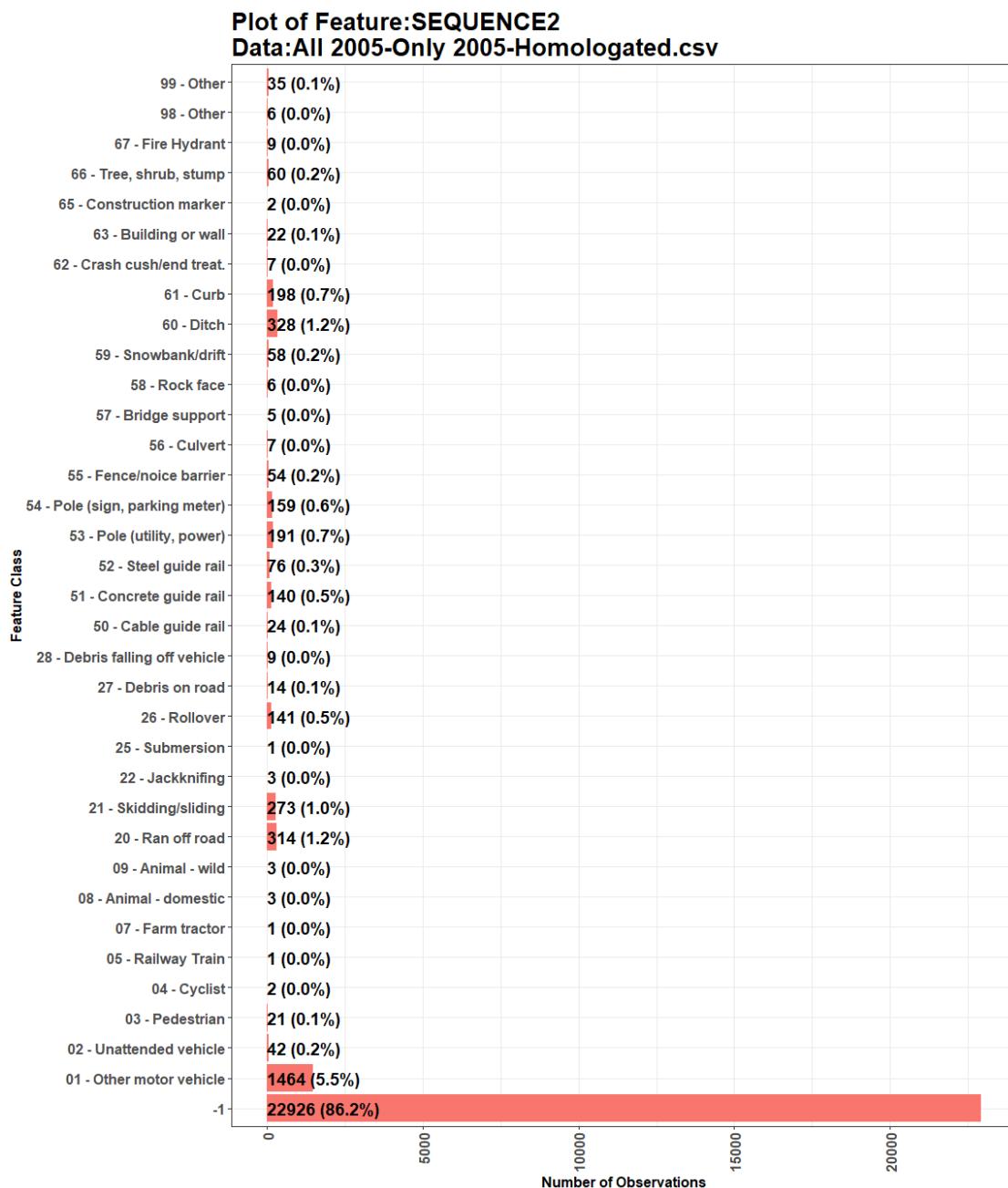


## 22 - Jackknifing	8	0.0312
## 23 - Load spill	5	0.0195
## 26 - Rollover	131	0.5103
## 27 - Debris on road	3	0.0117
## 28 - Debris falling off vehicle	8	0.0312
## 50 - Cable guide rail	40	0.1558
## 51 - Concrete guide rail	179	0.6973
## 52 - Steel guide rail	92	0.3584
## 53 - Pole (utility, power)	208	0.8103
## 54 - Pole (sign, parking meter)	170	0.6623
## 55 - Fence/noice barrier	55	0.2143
## 56 - Culvert	10	0.0390
## 57 - Bridge support	2	0.0078
## 58 - Rock face	14	0.0545
## 59 - Snowbank/drift	66	0.2571
## 60 - Ditch	350	1.3635
## 61 - Curb	240	0.9350
## 62 - Crash cush/end treat.	4	0.0156
## 63 - Building or wall	32	0.1247
## 64 - Water course	2	0.0078
## 65 - Construction marker	2	0.0078
## 66 - Tree, shrub, stump	64	0.2493
## 67 - Fire Hydrant	11	0.0429
## 97 - Other	7	0.0273
## 98 - Other	2	0.0078
## 99 - Other	33	0.1286



```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

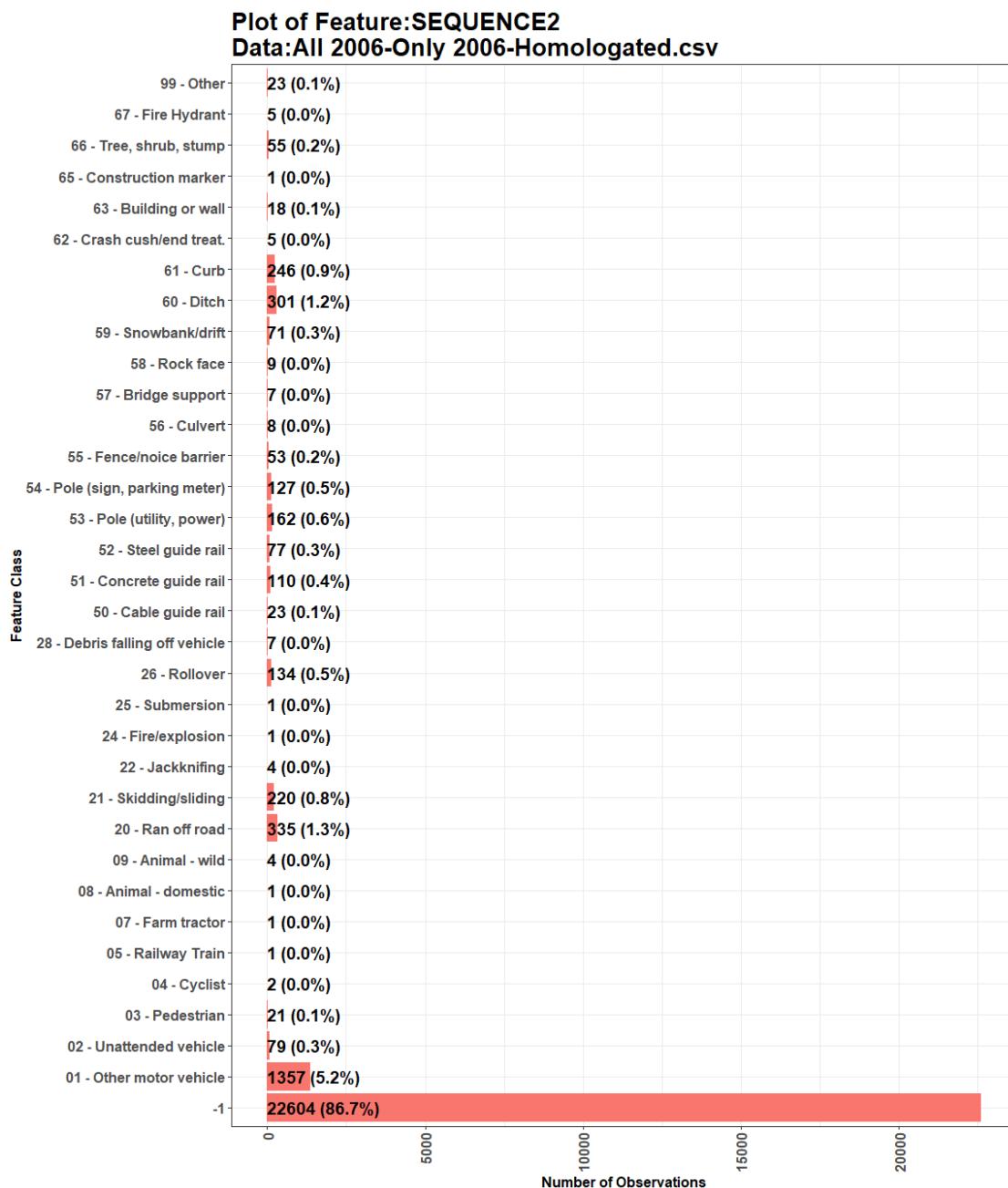
```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 22926 86.1718
## 01 - Other motor vehicle 1464 5.5027
## 02 - Unattended vehicle 42 0.1579
## 03 - Pedestrian 21 0.0789
## 04 - Cyclist 2 0.0075
## 05 - Railway Train 1 0.0038
## 07 - Farm tractor 1 0.0038
## 08 - Animal - domestic 3 0.0113
## 09 - Animal - wild 3 0.0113
## 20 - Ran off road 314 1.1802
## 21 - Skidding/sliding 273 1.0261
## 22 - Jackknifing 3 0.0113
## 25 - Submersion 1 0.0038
## 26 - Rollover 141 0.5300
## 27 - Debris on road 14 0.0526
## 28 - Debris falling off vehicle 9 0.0338
## 50 - Cable guide rail 24 0.0902
## 51 - Concrete guide rail 140 0.5262
## 52 - Steel guide rail 76 0.2857
## 53 - Pole (utility, power) 191 0.7179
## 54 - Pole (sign, parking meter) 159 0.5976
## 55 - Fence/noice barrier 54 0.2030
## 56 - Culvert 7 0.0263
## 57 - Bridge support 5 0.0188
## 58 - Rock face 6 0.0226
## 59 - Snowbank/drift 58 0.2180
## 60 - Ditch 328 1.2329
## 61 - Curb 198 0.7442
## 62 - Crash cush/end treat. 7 0.0263
## 63 - Building or wall 22 0.0827
## 65 - Construction marker 2 0.0075
## 66 - Tree, shrub, stump 60 0.2255
## 67 - Fire Hydrant 9 0.0338
## 98 - Other 6 0.0226
## 99 - Other 35 0.1316
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

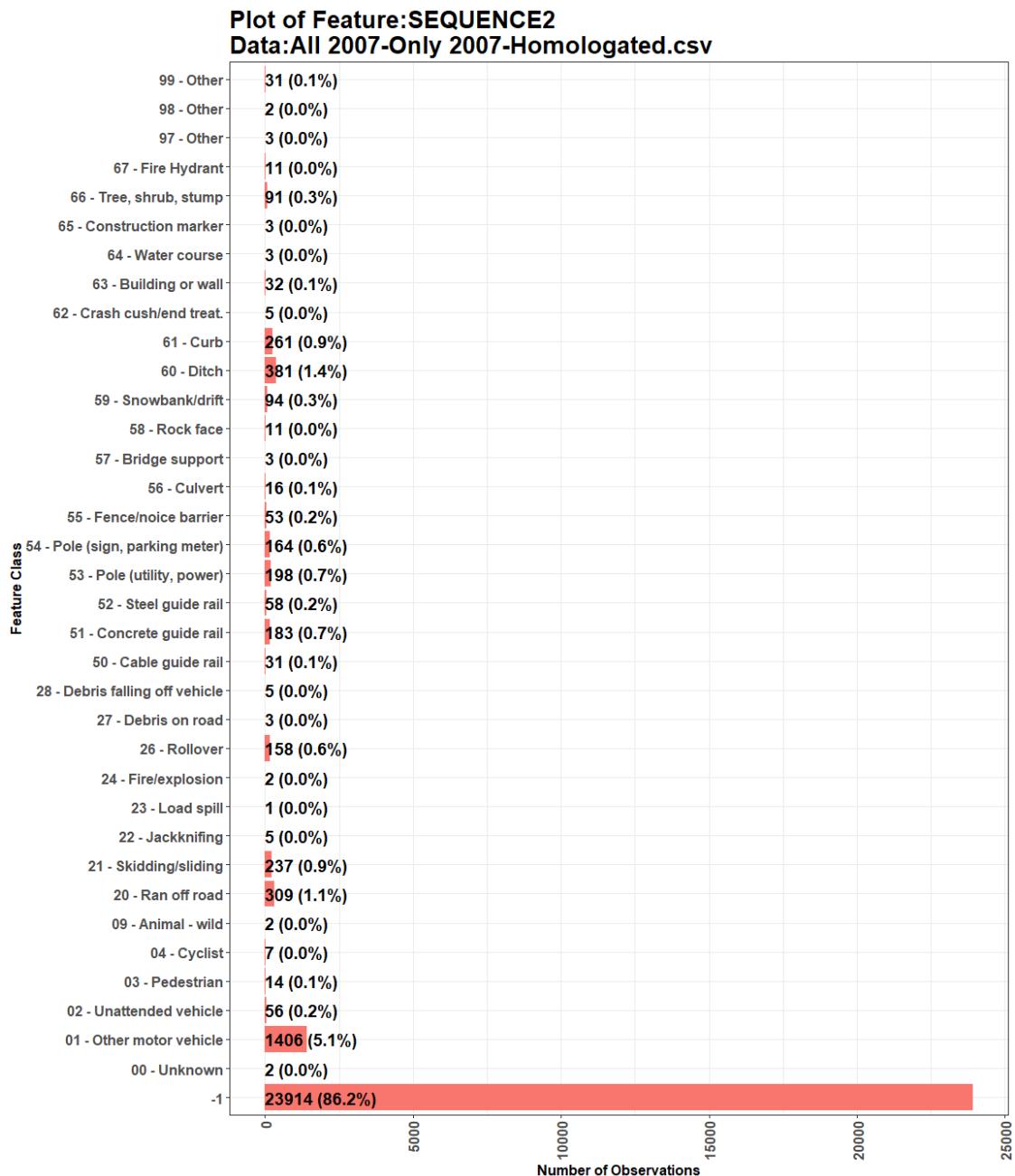


```
##  
## TOP 100 FEATURES OF SEQUENCE2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 22604 86.6950  
## 01 - Other motor vehicle 1357 5.2046  
## 02 - Unattended vehicle 79 0.3030  
## 03 - Pedestrian 21 0.0805  
## 04 - Cyclist 2 0.0077  
## 05 - Railway Train 1 0.0038  
## 07 - Farm tractor 1 0.0038  
## 08 - Animal - domestic 1 0.0038  
## 09 - Animal - wild 4 0.0153  
## 20 - Ran off road 335 1.2849  
## 21 - Skidding/sliding 220 0.8438  
## 22 - Jackknifing 4 0.0153  
## 24 - Fire/explosion 1 0.0038  
## 25 - Submersion 1 0.0038  
## 26 - Rollover 134 0.5139  
## 28 - Debris falling off vehicle 7 0.0268  
## 50 - Cable guide rail 23 0.0882  
## 51 - Concrete guide rail 110 0.4219  
## 52 - Steel guide rail 77 0.2953  
## 53 - Pole (utility, power) 162 0.6213  
## 54 - Pole (sign, parking meter) 127 0.4871  
## 55 - Fence/noice barrier 53 0.2033  
## 56 - Culvert 8 0.0307  
## 57 - Bridge support 7 0.0268  
## 58 - Rock face 9 0.0345  
## 59 - Snowbank/drift 71 0.2723  
## 60 - Ditch 301 1.1545  
## 61 - Curb 246 0.9435  
## 62 - Crash cush/end treat. 5 0.0192  
## 63 - Building or wall 18 0.0690  
## 65 - Construction marker 1 0.0038  
## 66 - Tree, shrub, stump 55 0.2109  
## 67 - Fire Hydrant 5 0.0192  
## 99 - Other 23 0.0882
```



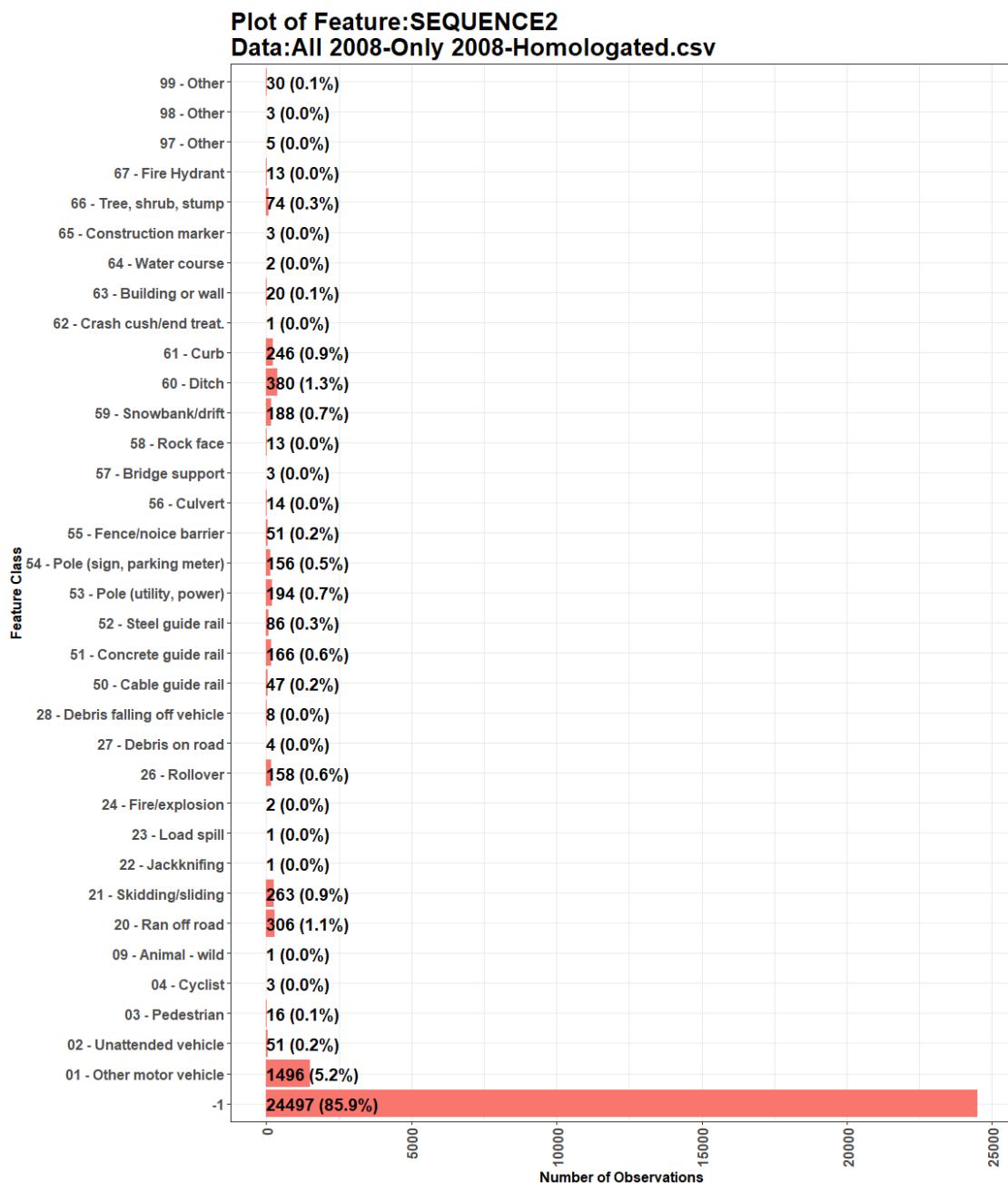
```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 36
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 23914 86.1611
## 00 - Unknown 2 0.0072
## 01 - Other motor vehicle 1406 5.0658
## 02 - Unattended vehicle 56 0.2018
## 03 - Pedestrian 14 0.0504
## 04 - Cyclist 7 0.0252
## 09 - Animal - wild 2 0.0072
## 20 - Ran off road 309 1.1133
## 21 - Skidding/sliding 237 0.8539
## 22 - Jackknifing 5 0.0180
## 23 - Load spill 1 0.0036
## 24 - Fire/explosion 2 0.0072
## 26 - Rollover 158 0.5693
## 27 - Debris on road 3 0.0108
## 28 - Debris falling off vehicle 5 0.0180
## 50 - Cable guide rail 31 0.1117
## 51 - Concrete guide rail 183 0.6593
## 52 - Steel guide rail 58 0.2090
## 53 - Pole (utility, power) 198 0.7134
## 54 - Pole (sign, parking meter) 164 0.5909
## 55 - Fence/noice barrier 53 0.1910
## 56 - Culvert 16 0.0576
## 57 - Bridge support 3 0.0108
## 58 - Rock face 11 0.0396
## 59 - Snowbank/drift 94 0.3387
## 60 - Ditch 381 1.3727
## 61 - Curb 261 0.9404
## 62 - Crash cush/end treat. 5 0.0180
## 63 - Building or wall 32 0.1153
## 64 - Water course 3 0.0108
## 65 - Construction marker 3 0.0108
## 66 - Tree, shrub, stump 91 0.3279
## 67 - Fire Hydrant 11 0.0396
## 97 - Other 3 0.0108
## 98 - Other 2 0.0072
## 99 - Other 31 0.1117
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 24497 85.9484
## 01 - Other motor vehicle 1496 5.2488
## 02 - Unattended vehicle 51 0.1789
## 03 - Pedestrian 16 0.0561
## 04 - Cyclist 3 0.0105
## 09 - Animal - wild 1 0.0035
## 20 - Ran off road 306 1.0736
## 21 - Skidding/sliding 263 0.9227
## 22 - Jackknifing 1 0.0035
## 23 - Load spill 1 0.0035
## 24 - Fire/explosion 2 0.0070
## 26 - Rollover 158 0.5543
## 27 - Debris on road 4 0.0140
## 28 - Debris falling off vehicle 8 0.0281
## 50 - Cable guide rail 47 0.1649
## 51 - Concrete guide rail 166 0.5824
## 52 - Steel guide rail 86 0.3017
## 53 - Pole (utility, power) 194 0.6807
## 54 - Pole (sign, parking meter) 156 0.5473
## 55 - Fence/noice barrier 51 0.1789
## 56 - Culvert 14 0.0491
## 57 - Bridge support 3 0.0105
## 58 - Rock face 13 0.0456
## 59 - Snowbank/drift 188 0.6596
## 60 - Ditch 380 1.3332
## 61 - Curb 246 0.8631
## 62 - Crash cush/end treat. 1 0.0035
## 63 - Building or wall 20 0.0702
## 64 - Water course 2 0.0070
## 65 - Construction marker 3 0.0105
## 66 - Tree, shrub, stump 74 0.2596
## 67 - Fire Hydrant 13 0.0456
## 97 - Other 5 0.0175
## 98 - Other 3 0.0105
## 99 - Other 30 0.1053
```



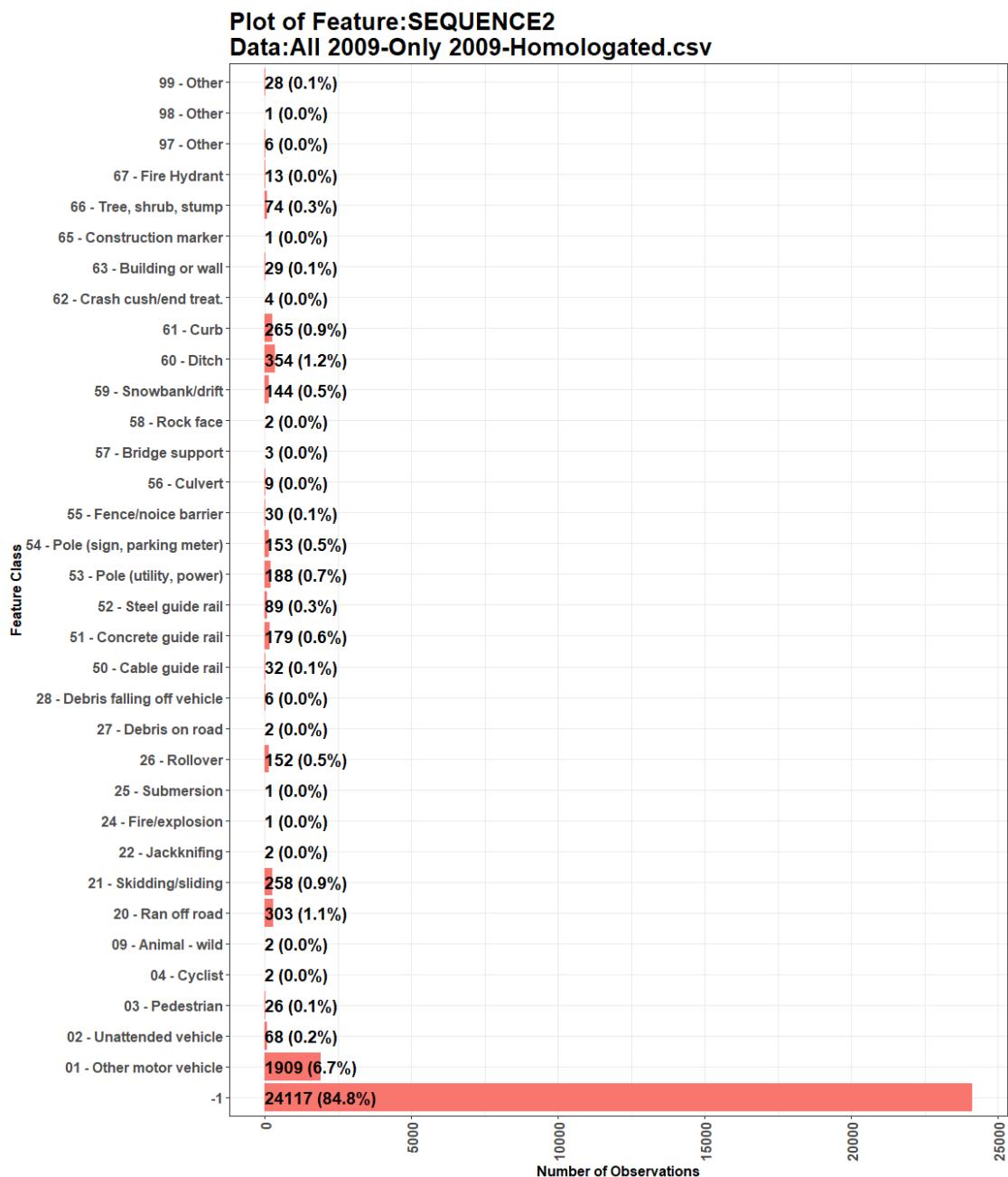
```

## 
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2009-Only 2009-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 34

```

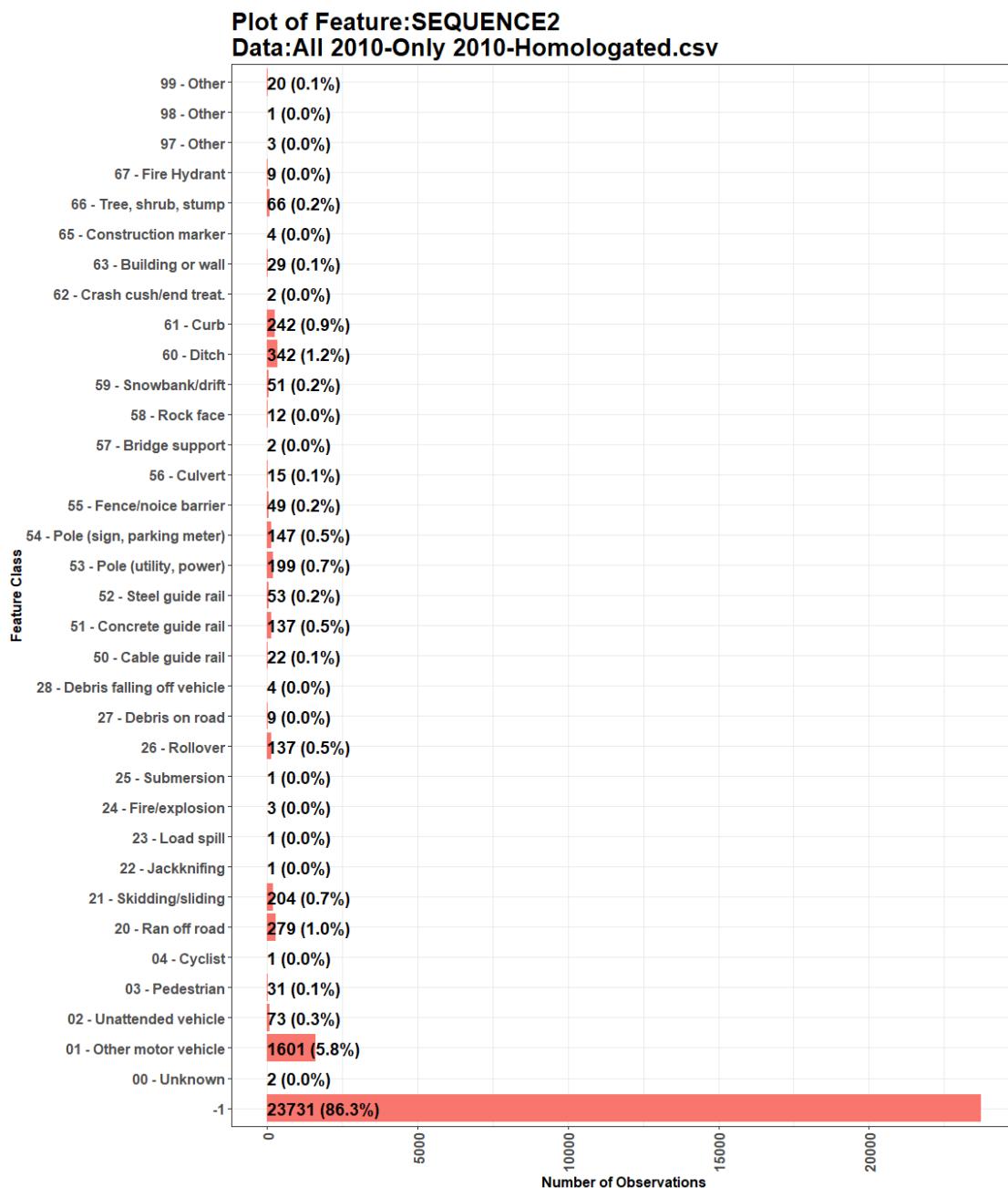


```
##  
## TOP 100 FEATURES OF SEQUENCE2  
##  
## Feature Value Counter Percentage  
## -----  
## -1 24117 84.7608  
## 01 - Other motor vehicle 1909 6.7093  
## 02 - Unattended vehicle 68 0.2390  
## 03 - Pedestrian 26 0.0914  
## 04 - Cyclist 2 0.0070  
## 09 - Animal - wild 2 0.0070  
## 20 - Ran off road 303 1.0649  
## 21 - Skidding/sliding 258 0.9068  
## 22 - Jackknifing 2 0.0070  
## 24 - Fire/explosion 1 0.0035  
## 25 - Submersion 1 0.0035  
## 26 - Rollover 152 0.5342  
## 27 - Debris on road 2 0.0070  
## 28 - Debris falling off vehicle 6 0.0211  
## 50 - Cable guide rail 32 0.1125  
## 51 - Concrete guide rail 179 0.6291  
## 52 - Steel guide rail 89 0.3128  
## 53 - Pole (utility, power) 188 0.6607  
## 54 - Pole (sign, parking meter) 153 0.5377  
## 55 - Fence/noice barrier 30 0.1054  
## 56 - Culvert 9 0.0316  
## 57 - Bridge support 3 0.0105  
## 58 - Rock face 2 0.0070  
## 59 - Snowbank/drift 144 0.5061  
## 60 - Ditch 354 1.2442  
## 61 - Curb 265 0.9314  
## 62 - Crash cush/end treat. 4 0.0141  
## 63 - Building or wall 29 0.1019  
## 65 - Construction marker 1 0.0035  
## 66 - Tree, shrub, stump 74 0.2601  
## 67 - Fire Hydrant 13 0.0457  
## 97 - Other 6 0.0211  
## 98 - Other 1 0.0035  
## 99 - Other 28 0.0984
```



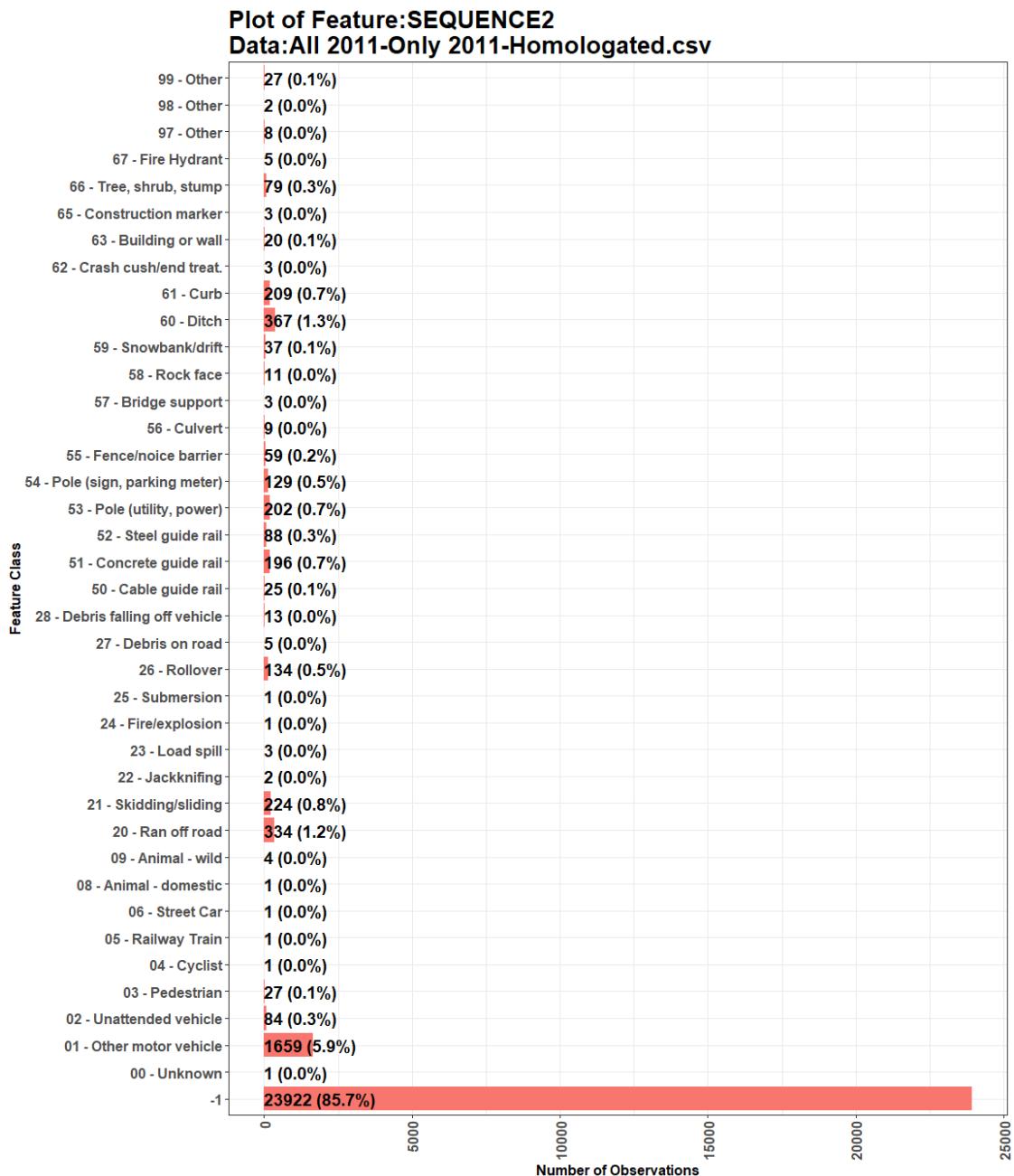
```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 23731 86.3479
## 00 - Unknown 2 0.0073
## 01 - Other motor vehicle 1601 5.8254
## 02 - Unattended vehicle 73 0.2656
## 03 - Pedestrian 31 0.1128
## 04 - Cyclist 1 0.0036
## 20 - Ran off road 279 1.0152
## 21 - Skidding/sliding 204 0.7423
## 22 - Jackknifing 1 0.0036
## 23 - Load spill 1 0.0036
## 24 - Fire/explosion 3 0.0109
## 25 - Submersion 1 0.0036
## 26 - Rollover 137 0.4985
## 27 - Debris on road 9 0.0327
## 28 - Debris falling off vehicle 4 0.0146
## 50 - Cable guide rail 22 0.0800
## 51 - Concrete guide rail 137 0.4985
## 52 - Steel guide rail 53 0.1928
## 53 - Pole (utility, power) 199 0.7241
## 54 - Pole (sign, parking meter) 147 0.5349
## 55 - Fence/noice barrier 49 0.1783
## 56 - Culvert 15 0.0546
## 57 - Bridge support 2 0.0073
## 58 - Rock face 12 0.0437
## 59 - Snowbank/drift 51 0.1856
## 60 - Ditch 342 1.2444
## 61 - Curb 242 0.8805
## 62 - Crash cush/end treat. 2 0.0073
## 63 - Building or wall 29 0.1055
## 65 - Construction marker 4 0.0146
## 66 - Tree, shrub, stump 66 0.2401
## 67 - Fire Hydrant 9 0.0327
## 97 - Other 3 0.0109
## 98 - Other 1 0.0036
## 99 - Other 20 0.0728
```



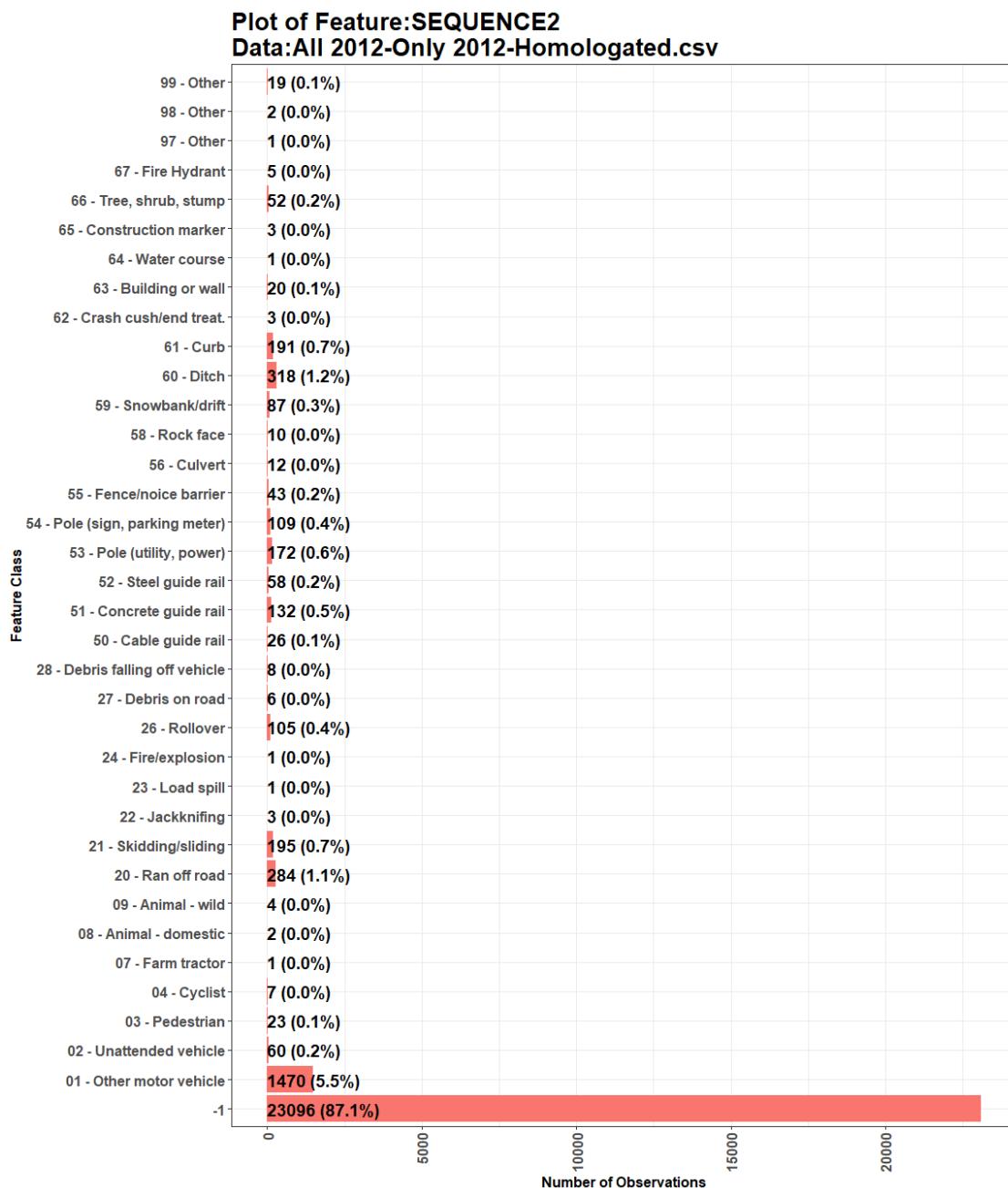
```
##  
## -----  
## CHECKING FEATURE:SEQUENCE2  
## DATA:All 2011-Only 2011-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 39
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 23922 85.7419
## 00 - Unknown 1 0.0036
## 01 - Other motor vehicle 1659 5.9462
## 02 - Unattended vehicle 84 0.3011
## 03 - Pedestrian 27 0.0968
## 04 - Cyclist 1 0.0036
## 05 - Railway Train 1 0.0036
## 06 - Street Car 1 0.0036
## 08 - Animal - domestic 1 0.0036
## 09 - Animal - wild 4 0.0143
## 20 - Ran off road 334 1.1971
## 21 - Skidding/sliding 224 0.8029
## 22 - Jackknifing 2 0.0072
## 23 - Load spill 3 0.0108
## 24 - Fire/explosion 1 0.0036
## 25 - Submersion 1 0.0036
## 26 - Rollover 134 0.4803
## 27 - Debris on road 5 0.0179
## 28 - Debris falling off vehicle 13 0.0466
## 50 - Cable guide rail 25 0.0896
## 51 - Concrete guide rail 196 0.7025
## 52 - Steel guide rail 88 0.3154
## 53 - Pole (utility, power) 202 0.7240
## 54 - Pole (sign, parking meter) 129 0.4624
## 55 - Fence/noice barrier 59 0.2115
## 56 - Culvert 9 0.0323
## 57 - Bridge support 3 0.0108
## 58 - Rock face 11 0.0394
## 59 - Snowbank/drift 37 0.1326
## 60 - Ditch 367 1.3154
## 61 - Curb 209 0.7491
## 62 - Crash cush/end treat. 3 0.0108
## 63 - Building or wall 20 0.0717
## 65 - Construction marker 3 0.0108
## 66 - Tree, shrub, stump 79 0.2832
## 67 - Fire Hydrant 5 0.0179
## 97 - Other 8 0.0287
## 98 - Other 2 0.0072
## 99 - Other 27 0.0968
```



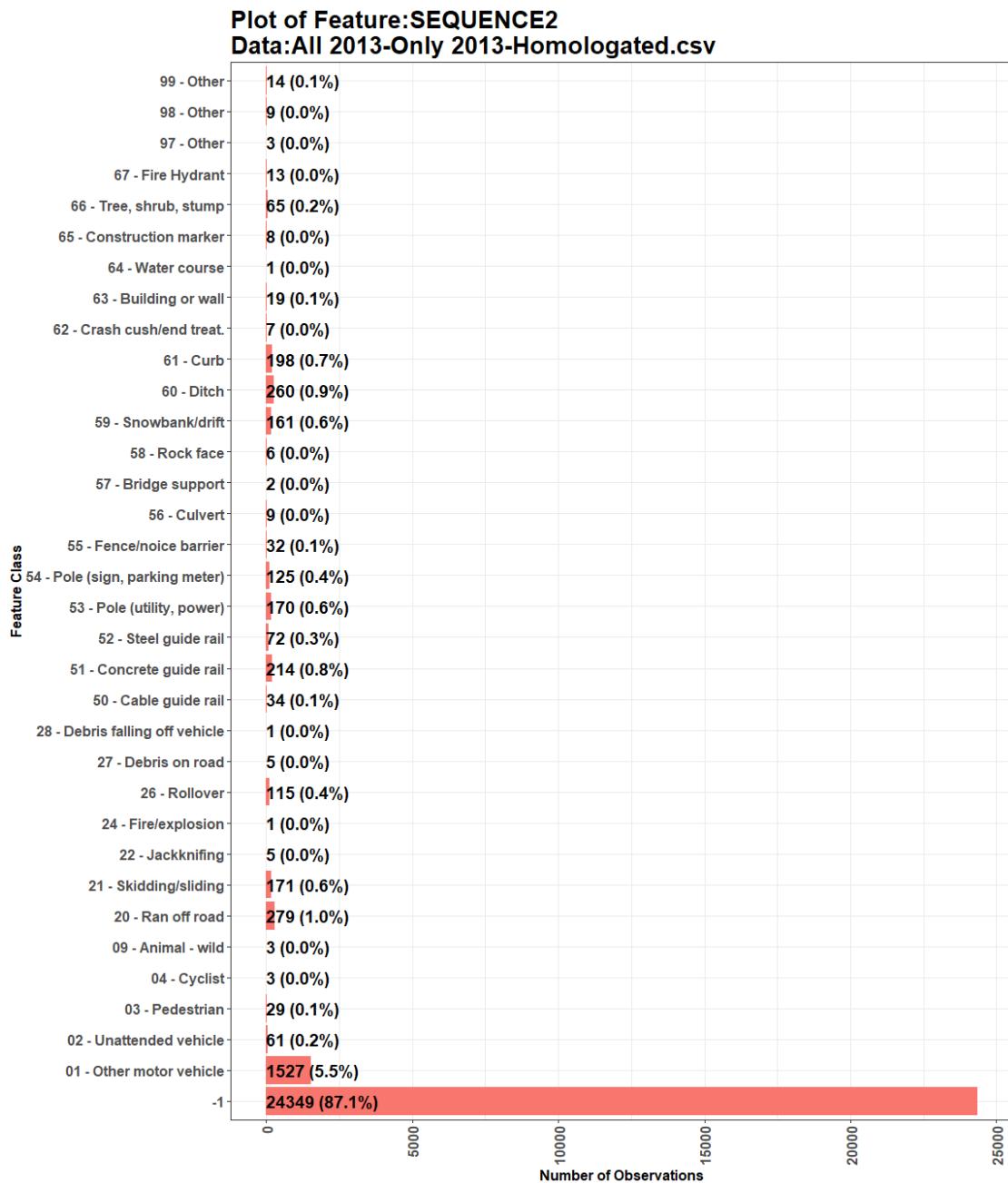
```
##  
## -----  
## CHECKING FEATURE:SEQUENCE2  
## DATA:All 2012-Only 2012-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 36
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 23096 87.0562
## 01 - Other motor vehicle 1470 5.5409
## 02 - Unattended vehicle 60 0.2262
## 03 - Pedestrian 23 0.0867
## 04 - Cyclist 7 0.0264
## 07 - Farm tractor 1 0.0038
## 08 - Animal - domestic 2 0.0075
## 09 - Animal - wild 4 0.0151
## 20 - Ran off road 284 1.0705
## 21 - Skidding/sliding 195 0.7350
## 22 - Jackknifing 3 0.0113
## 23 - Load spill 1 0.0038
## 24 - Fire/explosion 1 0.0038
## 26 - Rollover 105 0.3958
## 27 - Debris on road 6 0.0226
## 28 - Debris falling off vehicle 8 0.0302
## 50 - Cable guide rail 26 0.0980
## 51 - Concrete guide rail 132 0.4975
## 52 - Steel guide rail 58 0.2186
## 53 - Pole (utility, power) 172 0.6483
## 54 - Pole (sign, parking meter) 109 0.4109
## 55 - Fence/noice barrier 43 0.1621
## 56 - Culvert 12 0.0452
## 58 - Rock face 10 0.0377
## 59 - Snowbank/drift 87 0.3279
## 60 - Ditch 318 1.1986
## 61 - Curb 191 0.7199
## 62 - Crash cush/end treat. 3 0.0113
## 63 - Building or wall 20 0.0754
## 64 - Water course 1 0.0038
## 65 - Construction marker 3 0.0113
## 66 - Tree, shrub, stump 52 0.1960
## 67 - Fire Hydrant 5 0.0188
## 97 - Other 1 0.0038
## 98 - Other 2 0.0075
## 99 - Other 19 0.0716
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

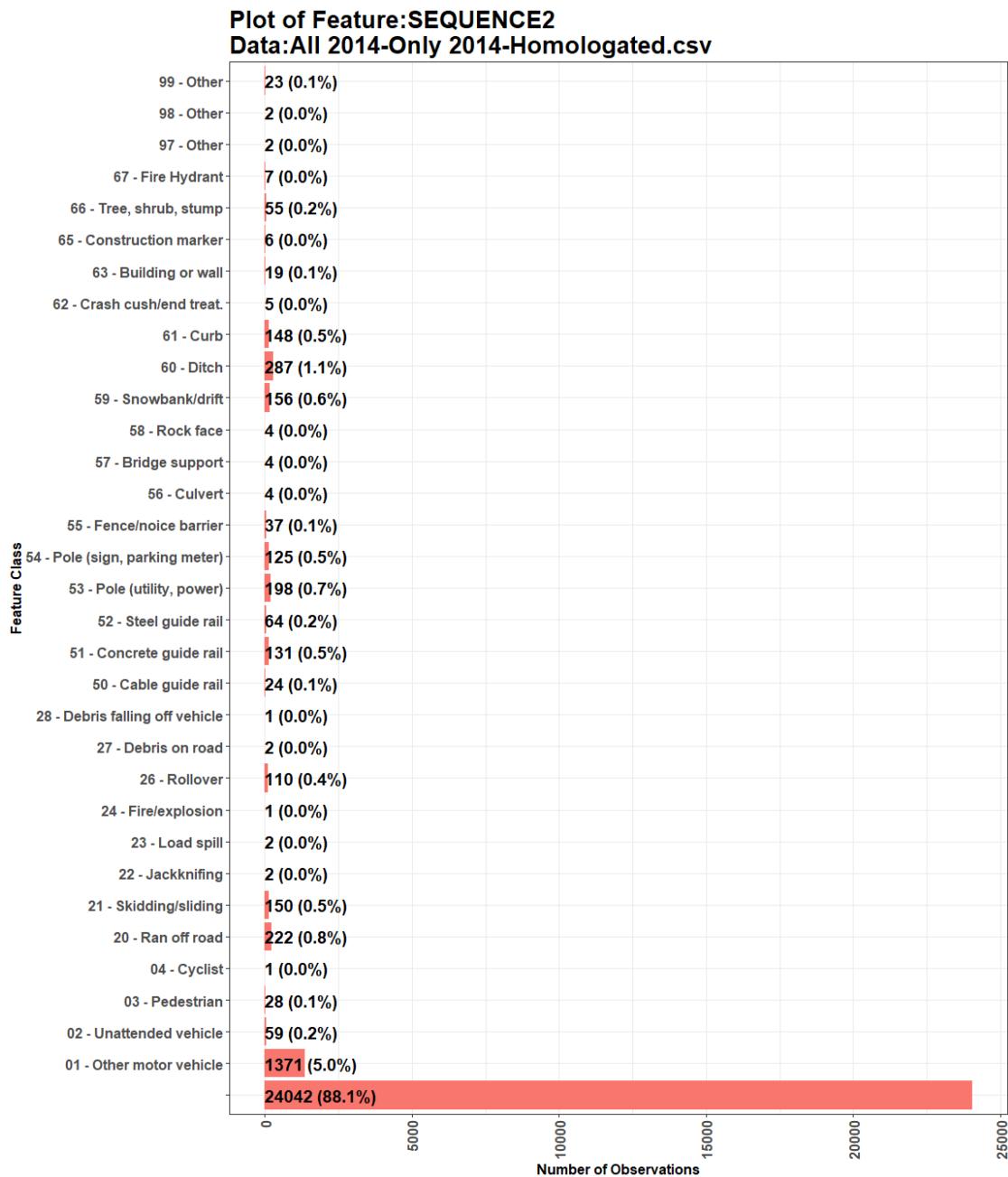
```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## -1 24349 87.0509
## 01 - Other motor vehicle 1527 5.4592
## 02 - Unattended vehicle 61 0.2181
## 03 - Pedestrian 29 0.1037
## 04 - Cyclist 3 0.0107
## 09 - Animal - wild 3 0.0107
## 20 - Ran off road 279 0.9975
## 21 - Skidding/sliding 171 0.6113
## 22 - Jackknifing 5 0.0179
## 24 - Fire/explosion 1 0.0036
## 26 - Rollover 115 0.4111
## 27 - Debris on road 5 0.0179
## 28 - Debris falling off vehicle 1 0.0036
## 50 - Cable guide rail 34 0.1216
## 51 - Concrete guide rail 214 0.7651
## 52 - Steel guide rail 72 0.2574
## 53 - Pole (utility, power) 170 0.6078
## 54 - Pole (sign, parking meter) 125 0.4469
## 55 - Fence/noice barrier 32 0.1144
## 56 - Culvert 9 0.0322
## 57 - Bridge support 2 0.0072
## 58 - Rock face 6 0.0215
## 59 - Snowbank/drift 161 0.5756
## 60 - Ditch 260 0.9295
## 61 - Curb 198 0.7079
## 62 - Crash cush/end treat. 7 0.0250
## 63 - Building or wall 19 0.0679
## 64 - Water course 1 0.0036
## 65 - Construction marker 8 0.0286
## 66 - Tree, shrub, stump 65 0.2324
## 67 - Fire Hydrant 13 0.0465
## 97 - Other 3 0.0107
## 98 - Other 9 0.0322
## 99 - Other 14 0.0501
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:24042
##
## Summary as Factor Feature:
##
## Number of Features: 33
```



```
##  
## TOP 100 FEATURES OF SEQUENCE2  
##  
## Feature Value Counter Percentage  
## -----  
## 24042 88.0917  
## 01 - Other motor vehicle 1371 5.0235  
## 02 - Unattended vehicle 59 0.2162  
## 03 - Pedestrian 28 0.1026  
## 04 - Cyclist 1 0.0037  
## 20 - Ran off road 222 0.8134  
## 21 - Skidding/sliding 150 0.5496  
## 22 - Jackknifing 2 0.0073  
## 23 - Load spill 2 0.0073  
## 24 - Fire/explosion 1 0.0037  
## 26 - Rollover 110 0.4030  
## 27 - Debris on road 2 0.0073  
## 28 - Debris falling off vehicle 1 0.0037  
## 50 - Cable guide rail 24 0.0879  
## 51 - Concrete guide rail 131 0.4800  
## 52 - Steel guide rail 64 0.2345  
## 53 - Pole (utility, power) 198 0.7255  
## 54 - Pole (sign, parking meter) 125 0.4580  
## 55 - Fence/noice barrier 37 0.1356  
## 56 - Culvert 4 0.0147  
## 57 - Bridge support 4 0.0147  
## 58 - Rock face 4 0.0147  
## 59 - Snowbank/drift 156 0.5716  
## 60 - Ditch 287 1.0516  
## 61 - Curb 148 0.5423  
## 62 - Crash cush/end treat. 5 0.0183  
## 63 - Building or wall 19 0.0696  
## 65 - Construction marker 6 0.0220  
## 66 - Tree, shrub, stump 55 0.2015  
## 67 - Fire Hydrant 7 0.0256  
## 97 - Other 2 0.0073  
## 98 - Other 2 0.0073  
## 99 - Other 23 0.0843
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:24616
##
## Summary as Factor Feature:
##
## Number of Features: 31
```

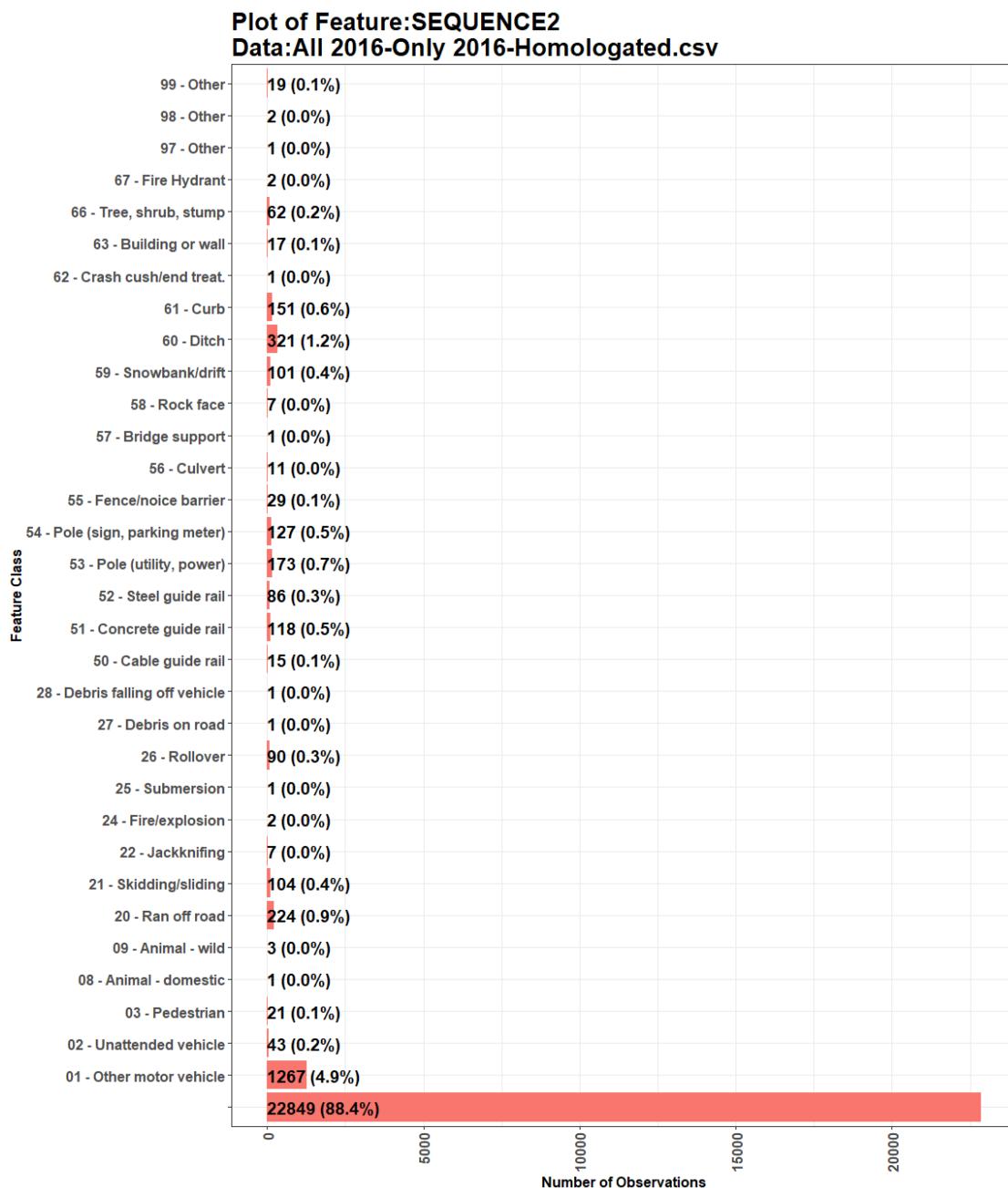


```
##  
## TOP 100 FEATURES OF SEQUENCE2  
##  
## Feature Value Counter Percentage  
## -----  
## 24616 88.3339  
## 01 - Other motor vehicle 1427 5.1208  
## 02 - Unattended vehicle 45 0.1615  
## 03 - Pedestrian 12 0.0431  
## 04 - Cyclist 2 0.0072  
## 20 - Ran off road 191 0.6854  
## 21 - Skidding/sliding 151 0.5419  
## 22 - Jackknifing 3 0.0108  
## 23 - Load spill 2 0.0072  
## 24 - Fire/explosion 2 0.0072  
## 26 - Rollover 97 0.3481  
## 50 - Cable guide rail 24 0.0861  
## 51 - Concrete guide rail 150 0.5383  
## 52 - Steel guide rail 90 0.3230  
## 53 - Pole (utility, power) 184 0.6603  
## 54 - Pole (sign, parking meter) 133 0.4773  
## 55 - Fence/noice barrier 38 0.1364  
## 56 - Culvert 6 0.0215  
## 57 - Bridge support 6 0.0215  
## 58 - Rock face 6 0.0215  
## 59 - Snowbank/drift 109 0.3911  
## 60 - Ditch 275 0.9868  
## 61 - Curb 176 0.6316  
## 62 - Crash cush/end treat. 3 0.0108  
## 63 - Building or wall 12 0.0431  
## 65 - Construction marker 4 0.0144  
## 66 - Tree, shrub, stump 64 0.2297  
## 67 - Fire Hydrant 11 0.0395  
## 97 - Other 4 0.0144  
## 98 - Other 2 0.0072  
## 99 - Other 22 0.0789
```



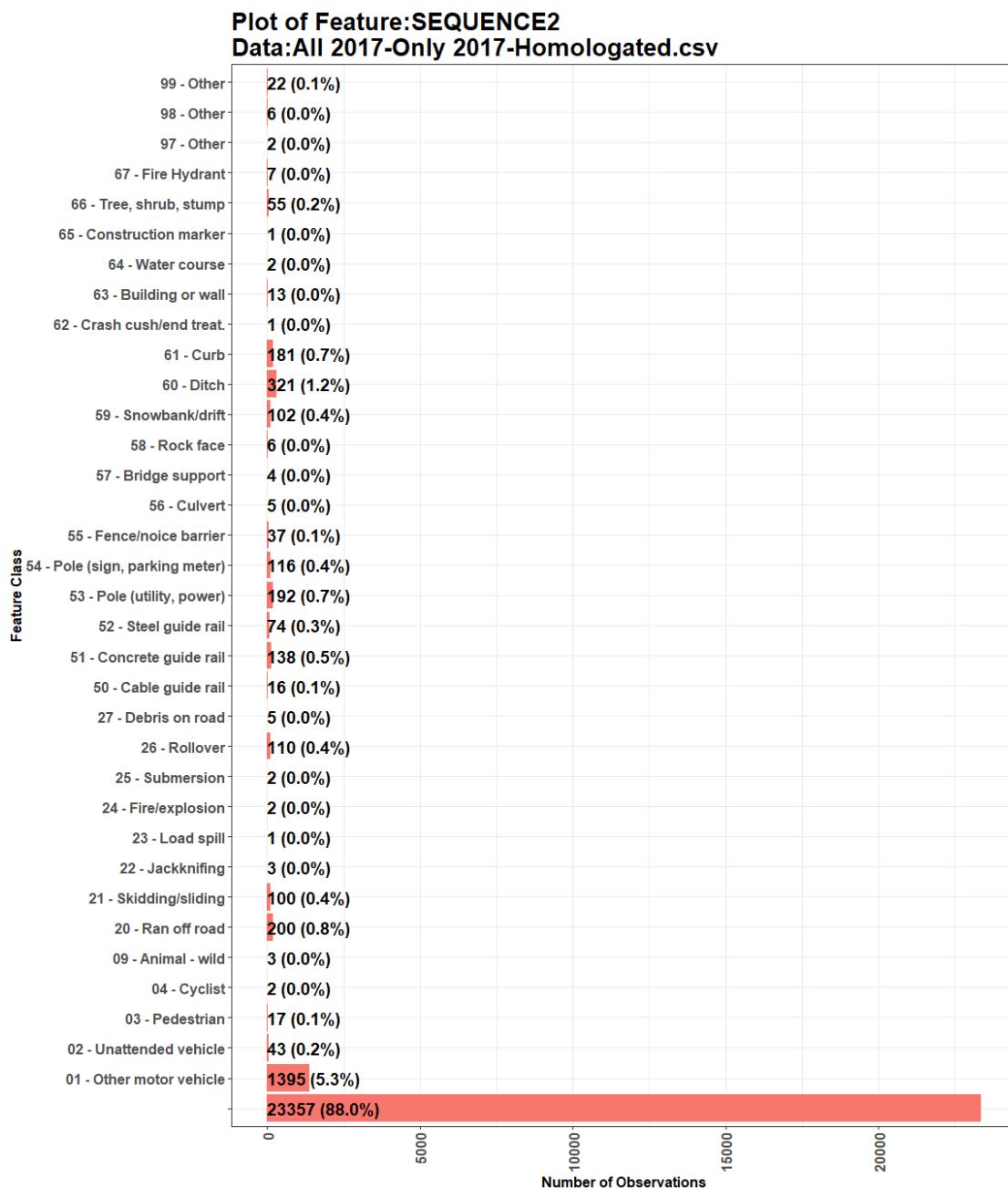
```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:22849
##
## Summary as Factor Feature:
##
## Number of Features: 33
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
##                                     22849  88.3634
## 01 - Other motor vehicle      1267   4.8998
## 02 - Unattended vehicle       43    0.1663
## 03 - Pedestrian               21    0.0812
## 08 - Animal - domestic        1    0.0039
## 09 - Animal - wild            3    0.0116
## 20 - Ran off road             224   0.8663
## 21 - Skidding/sliding         104   0.4022
## 22 - Jackknifing              7    0.0271
## 24 - Fire/explosion           2    0.0077
## 25 - Submersion               1    0.0039
## 26 - Rollover                 90    0.3481
## 27 - Debris on road            1    0.0039
## 28 - Debris falling off vehicle 1    0.0039
## 50 - Cable guide rail          15    0.0580
## 51 - Concrete guide rail       118   0.4563
## 52 - Steel guide rail          86    0.3326
## 53 - Pole (utility, power)     173   0.6690
## 54 - Pole (sign, parking meter) 127   0.4911
## 55 - Fence/noice barrier       29    0.1122
## 56 - Culvert                   11    0.0425
## 57 - Bridge support             1    0.0039
## 58 - Rock face                  7    0.0271
## 59 - Snowbank/drift            101   0.3906
## 60 - Ditch                      321   1.2414
## 61 - Curb                        151   0.5840
## 62 - Crash cush/end treat.      1    0.0039
## 63 - Building or wall           17    0.0657
## 66 - Tree, shrub, stump          62    0.2398
## 67 - Fire Hydrant                2    0.0077
## 97 - Other                       1    0.0039
## 98 - Other                       2    0.0077
## 99 - Other                      19    0.0735
```



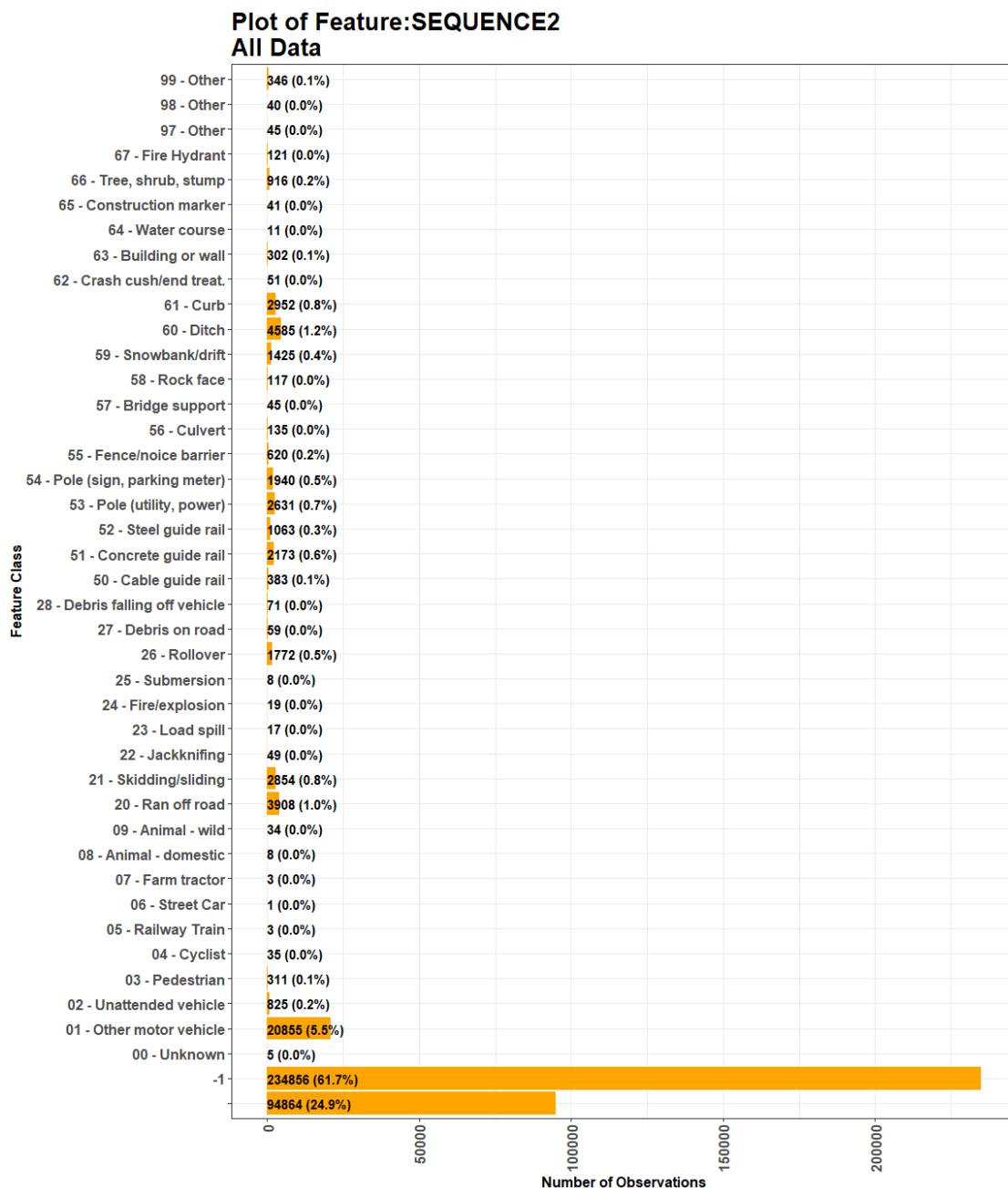
```
##
## -----
## CHECKING FEATURE:SEQUENCE2
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:23357
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

```
##
## TOP 100 FEATURES OF SEQUENCE2
##
## Feature Value Counter Percentage
## -----
## 01 - Other motor vehicle 23357 88.0035
## 02 - Unattended vehicle 1395 5.2560
## 03 - Pedestrian 43 0.1620
## 04 - Cyclist 17 0.0641
## 09 - Animal - wild 2 0.0075
## 20 - Ran off road 3 0.0113
## 21 - Skidding/sliding 200 0.7536
## 22 - Jackknifing 100 0.3768
## 23 - Load spill 3 0.0113
## 24 - Fire/explosion 1 0.0038
## 25 - Submersion 2 0.0075
## 26 - Rollover 2 0.0075
## 27 - Debris on road 110 0.4145
## 50 - Cable guide rail 5 0.0188
## 51 - Concrete guide rail 16 0.0603
## 52 - Steel guide rail 138 0.5200
## 53 - Pole (utility, power) 74 0.2788
## 54 - Pole (sign, parking meter) 192 0.7234
## 55 - Fence/noice barrier 116 0.4371
## 56 - Culvert 37 0.1394
## 57 - Bridge support 5 0.0188
## 58 - Rock face 4 0.0151
## 59 - Snowbank/drift 6 0.0226
## 60 - Ditch 102 0.3843
## 61 - Curb 321 1.2094
## 62 - Crash cush/end treat. 181 0.6820
## 63 - Building or wall 1 0.0038
## 64 - Water course 55 0.2072
## 65 - Construction marker 13 0.0490
## 66 - Tree, shrub, stump 2 0.0075
## 67 - Fire Hydrant 1 0.0038
## 97 - Other 7 0.0264
## 98 - Other 2 0.0075
## 99 - Other 6 0.0226
## 00 - Other 22 0.0829
```



```
##
## =====
## FINAL INFO CHECKING FEATURE:SEQUENCE2
## ALL DATA...
## =====
## Number of Blank Values:94864
## 
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
```

```
##          25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##          26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858          26541
##
##
## Summary as Factor Feature:
## Number of Features: 42
```



```
## [1] "TOP 100 FEATURES COUNTERS OF:SEQUENCE2"
```

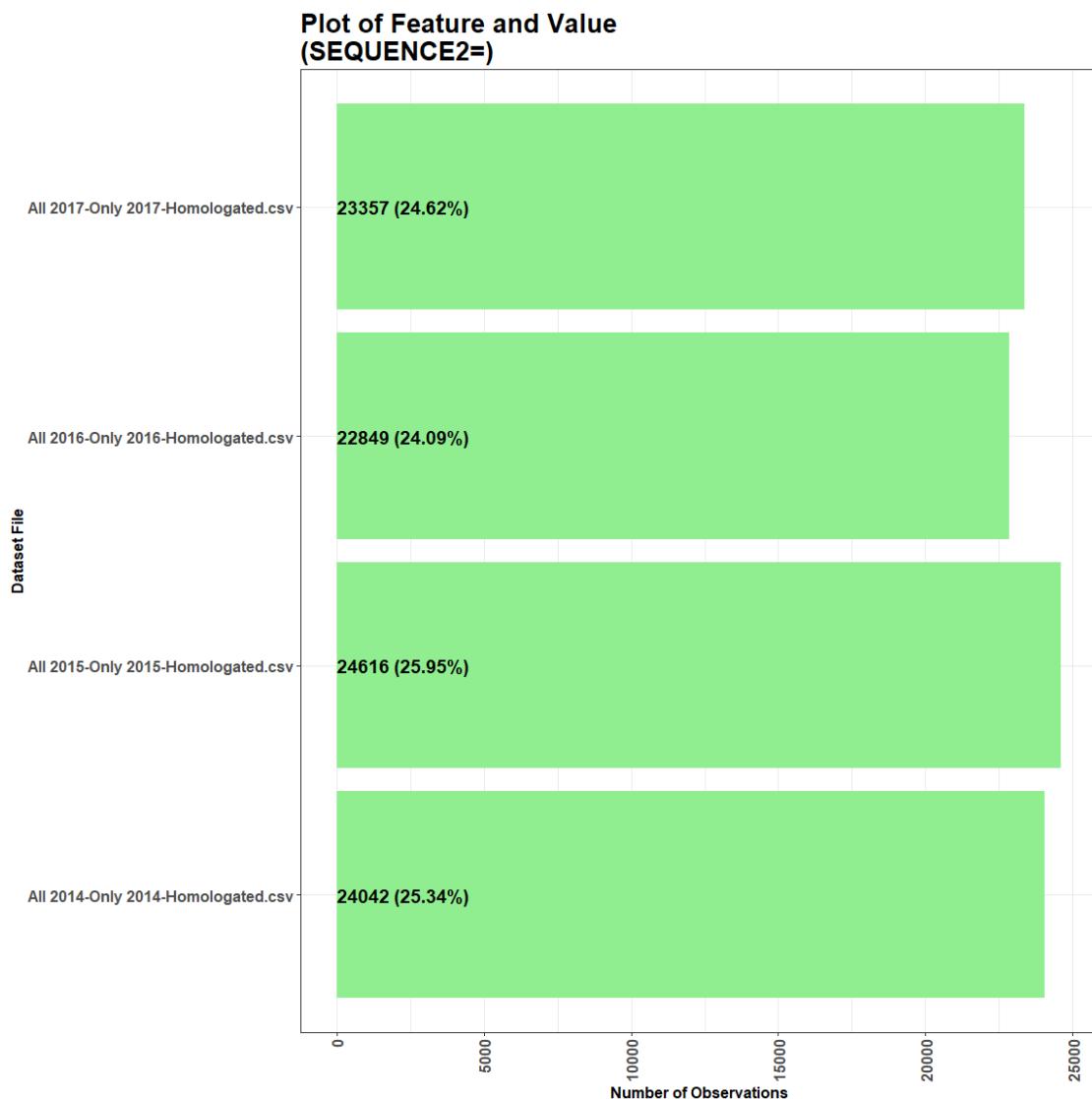
Feature Value	Counter	Percentage
-1	234856	61.7232
00 - Unknown	5	0.0013
01 - Other motor vehicle	20855	5.4810
02 - Unattended vehicle	825	0.2168

03 - Pedestrian	311	0.0817
04 - Cyclist	35	0.0092
05 - Railway Train	3	0.0008
06 - Street Car	1	0.0003
07 - Farm tractor	3	0.0008
08 - Animal - domestic	8	0.0021
09 - Animal - wild	34	0.0089
20 - Ran off road	3908	1.0271
21 - Skidding/sliding	2854	0.7501
22 - Jackknifing	49	0.0129
23 - Load spill	17	0.0045
24 - Fire/explosion	19	0.0050
25 - Submersion	8	0.0021
26 - Rollover	1772	0.4657
27 - Debris on road	59	0.0155
28 - Debris falling off vehicle	71	0.0187
50 - Cable guide rail	383	0.1007
51 - Concrete guide rail	2173	0.5711
52 - Steel guide rail	1063	0.2794
53 - Pole (utility, power)	2631	0.6915
54 - Pole (sign, parking meter)	1940	0.5099
55 - Fence/noice barrier	620	0.1629
56 - Culvert	135	0.0355
57 - Bridge support	45	0.0118
58 - Rock face	117	0.0307
59 - Snowbank/drift	1425	0.3745
60 - Ditch	4585	1.2050
61 - Curb	2952	0.7758
62 - Crash cush/end treat.	51	0.0134
63 - Building or wall	302	0.0794
64 - Water course	11	0.0029
65 - Construction marker	41	0.0108
66 - Tree, shrub, stump	916	0.2407
67 - Fire Hydrant	121	0.0318
97 - Other	45	0.0118

98 - Other	40	0.0105
99 - Other	346	0.0909

20.1 SEQUENCE2 = "" (Blank)

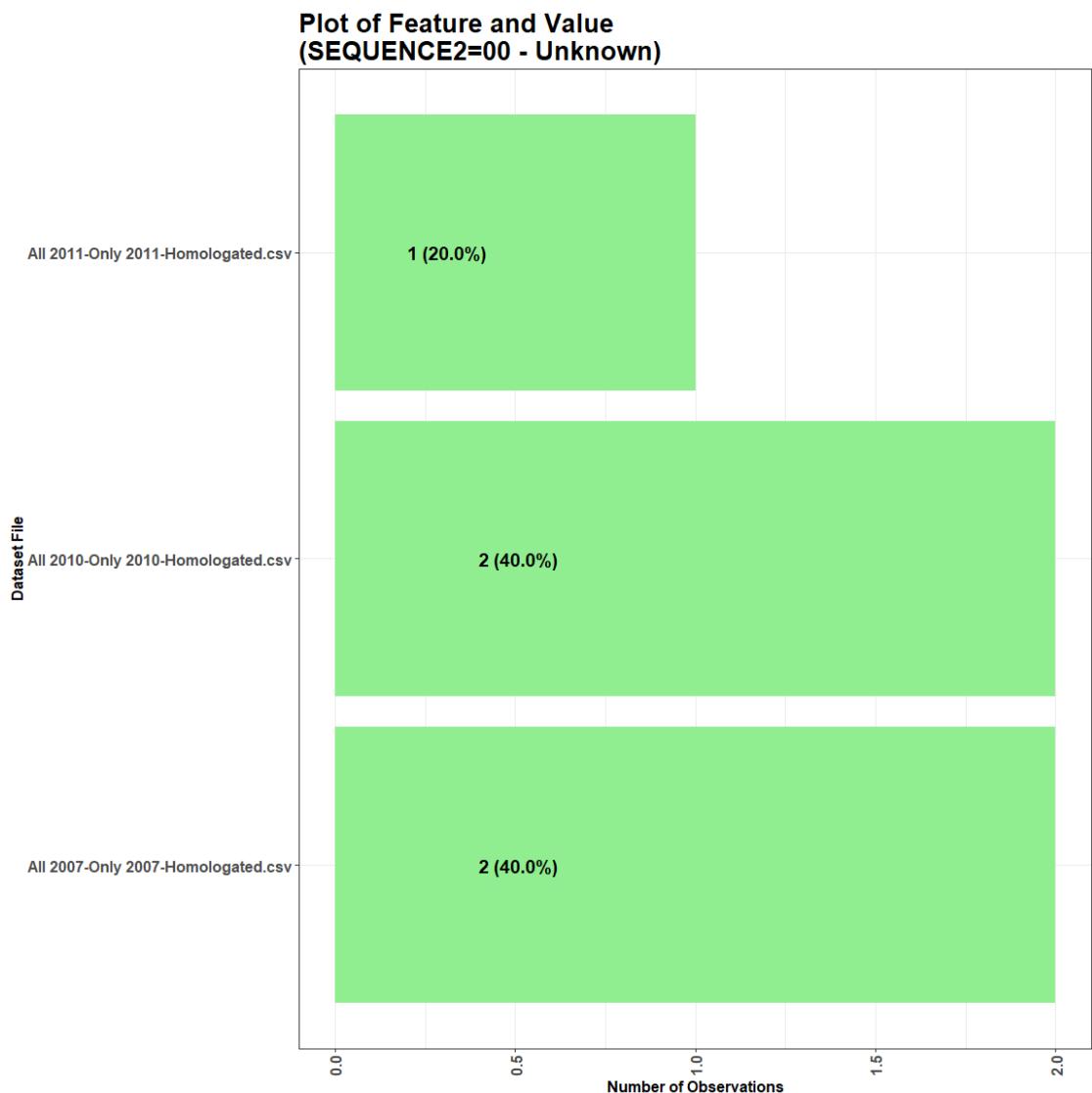
```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE2=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 24042 24616  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 22849 23357
```



DATASET FILE	COUNTER OF (SEQUENCE2=)	Percentage
All 2014-Only 2014-Homologated.csv	24042	25.34
All 2015-Only 2015-Homologated.csv	24616	25.95
All 2016-Only 2016-Homologated.csv	22849	24.09
All 2017-Only 2017-Homologated.csv	23357	24.62

20.2 SEQUENCE2 = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE2=00 - Unknown)  
##  
## Summary per Data File:  
## All 2007-Only 2007-Homologated.csv All 2010-Only 2010-Homologated.csv  
## 2 2  
## All 2011-Only 2011-Homologated.csv  
## 1
```

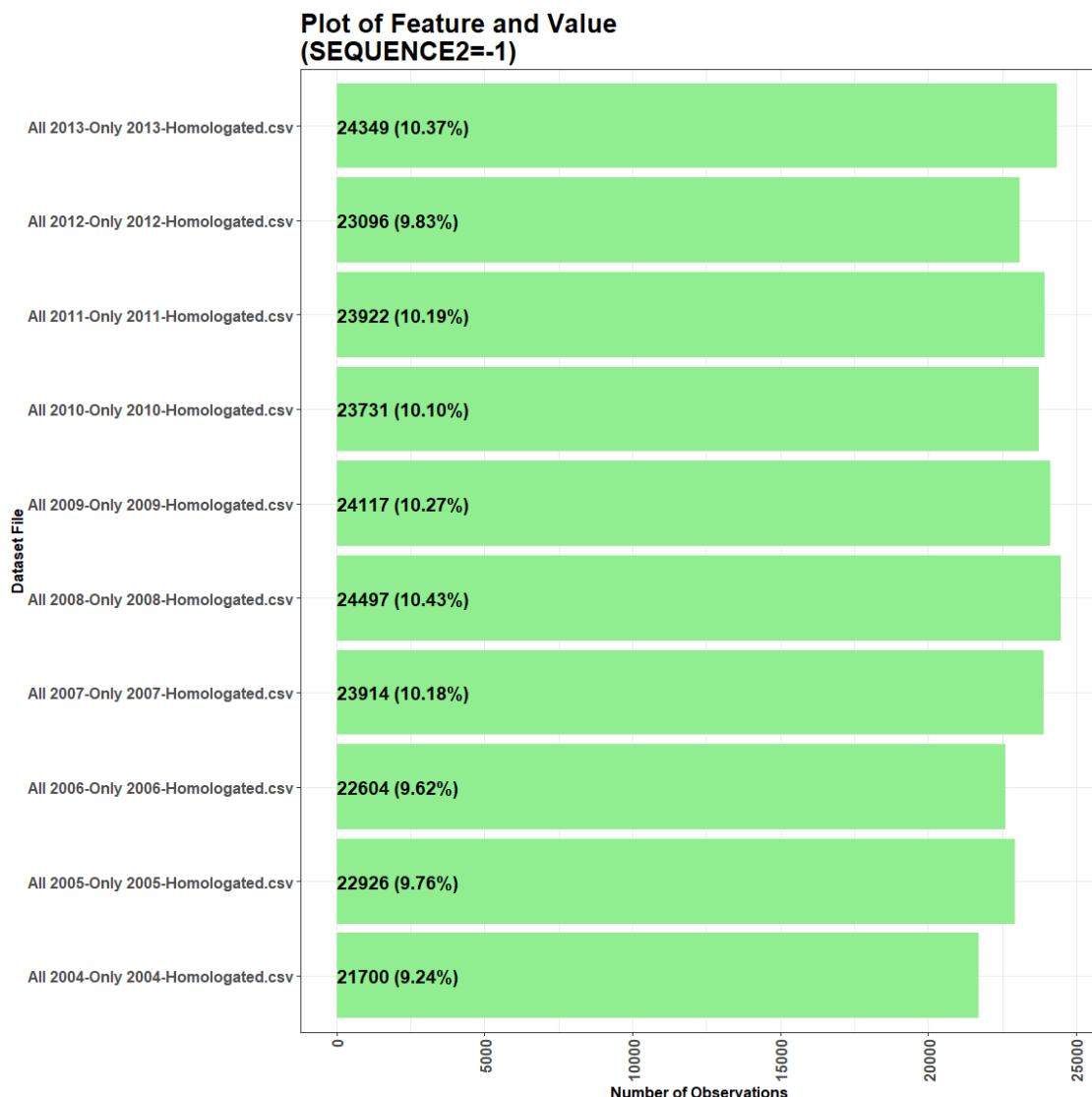


DATASET FILE	COUNTER OF (SEQUENCE2=00 - Unknown)	Percentage
All 2007-Only 2007-Homologated.csv	2	40
All 2010-Only 2010-Homologated.csv	2	40
All 2011-Only 2011-Homologated.csv	1	20

20.3 SEQUENCE2 = “-1”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (SEQUENCE2=-1)
```

```
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 21700 22926  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 22604 23914  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 24497 24117  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 23731 23922  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 23096 24349
```

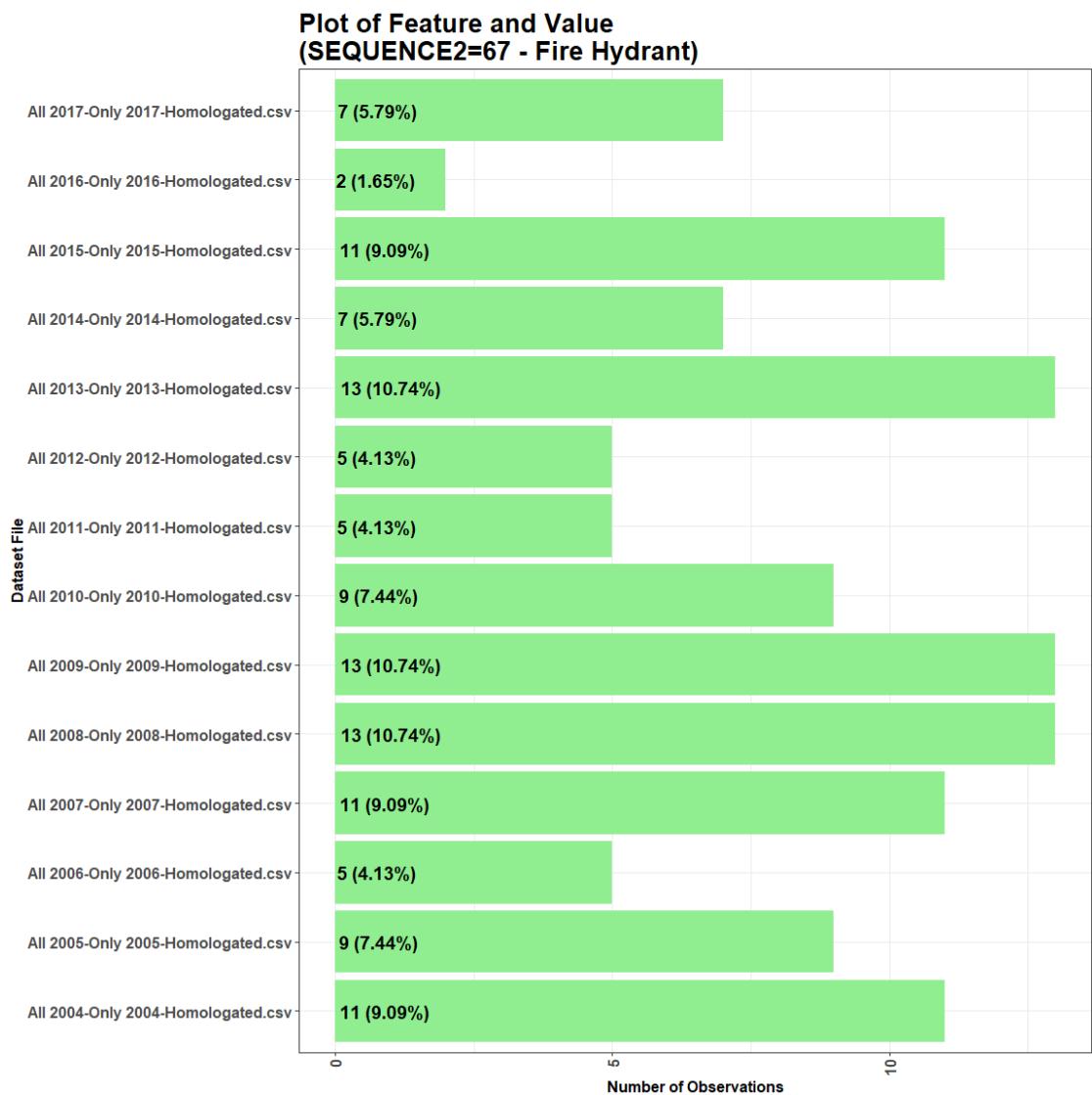


DATASET FILE	COUNTER OF (SEQUENCE2=-1)	Percentage
All 2004-Only 2004-Homologated.csv	21700	9.240

All 2005-Only 2005-Homologated.csv	22926	9.762
All 2006-Only 2006-Homologated.csv	22604	9.625
All 2007-Only 2007-Homologated.csv	23914	10.182
All 2008-Only 2008-Homologated.csv	24497	10.431
All 2009-Only 2009-Homologated.csv	24117	10.269
All 2010-Only 2010-Homologated.csv	23731	10.104
All 2011-Only 2011-Homologated.csv	23922	10.186
All 2012-Only 2012-Homologated.csv	23096	9.834
All 2013-Only 2013-Homologated.csv	24349	10.368

20.4 SEQUENCE2 = “67 - Fire Hydrant”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE2=67 - Fire Hydrant)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 11 9  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 5 11  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 13 13  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 9 5  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 5 13  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 7 11  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 2 7
```



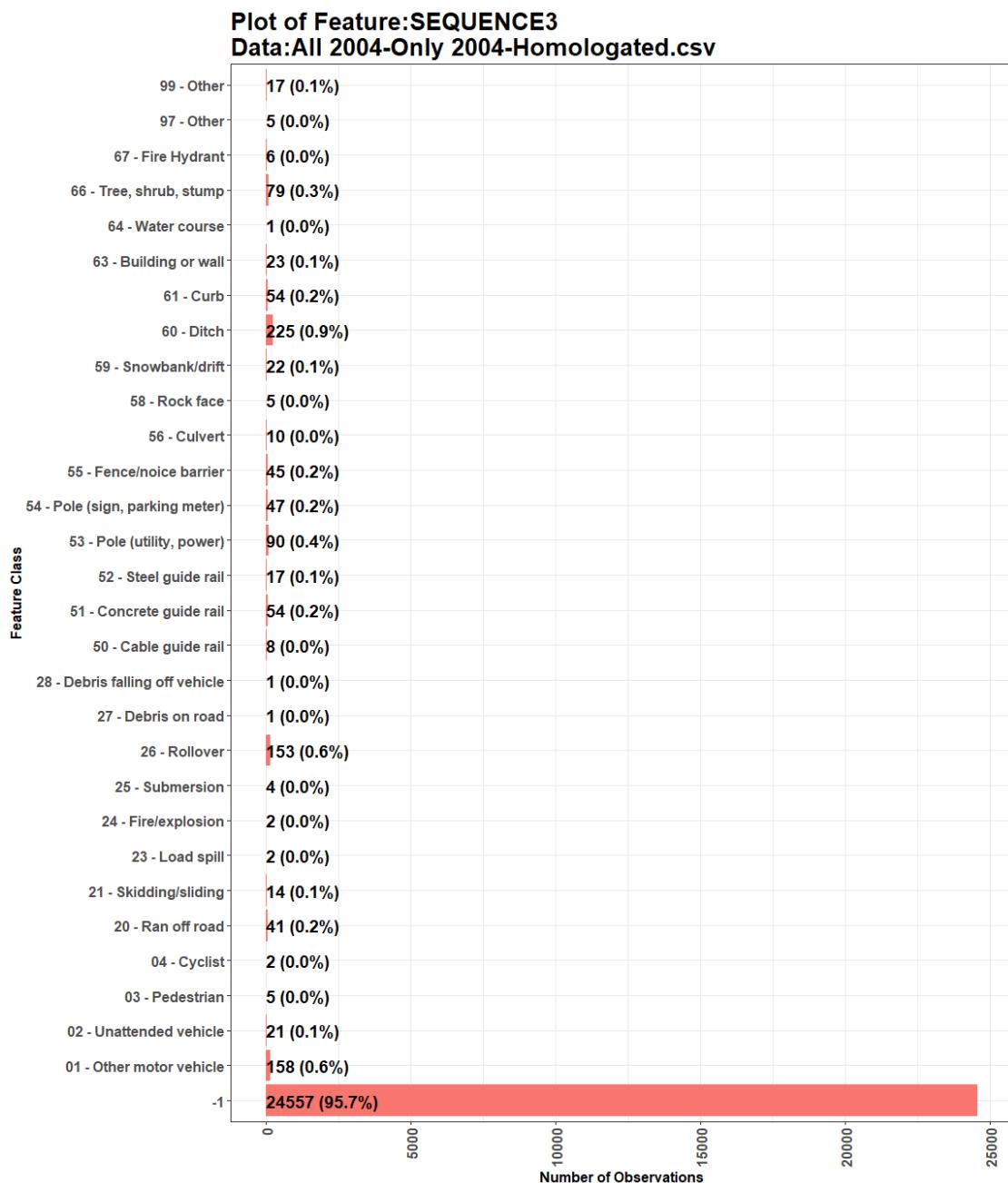
DATASET FILE	COUNTER OF (SEQUENCE2=67 - Fire Hydrant)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	11	9.091	
All 2005-Only 2005-Homologated.csv	9	7.438	
All 2006-Only 2006-Homologated.csv	5	4.132	
All 2007-Only 2007-Homologated.csv	11	9.091	
All 2008-Only 2008-Homologated.csv	13	10.744	

All 2009-Only 2009-Homologated.csv	13	10.744
All 2010-Only 2010-Homologated.csv	9	7.438
All 2011-Only 2011-Homologated.csv	5	4.132
All 2012-Only 2012-Homologated.csv	5	4.132
All 2013-Only 2013-Homologated.csv	13	10.744
All 2014-Only 2014-Homologated.csv	7	5.785
All 2015-Only 2015-Homologated.csv	11	9.091
All 2016-Only 2016-Homologated.csv	2	1.653
All 2017-Only 2017-Homologated.csv	7	5.785

21. Sequence3 (SEQUENCE3)

```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 30
##
## TOP 100 FEATURES OF SEQUENCE3
##
## Feature Value Counter Percentage
## -----
## -1 24557 95.6679
## 01 - Other motor vehicle 158 0.6155
## 02 - Unattended vehicle 21 0.0818
## 03 - Pedestrian 5 0.0195
## 04 - Cyclist 2 0.0078
## 20 - Ran off road 41 0.1597
## 21 - Skidding/sliding 14 0.0545
## 23 - Load spill 2 0.0078
```

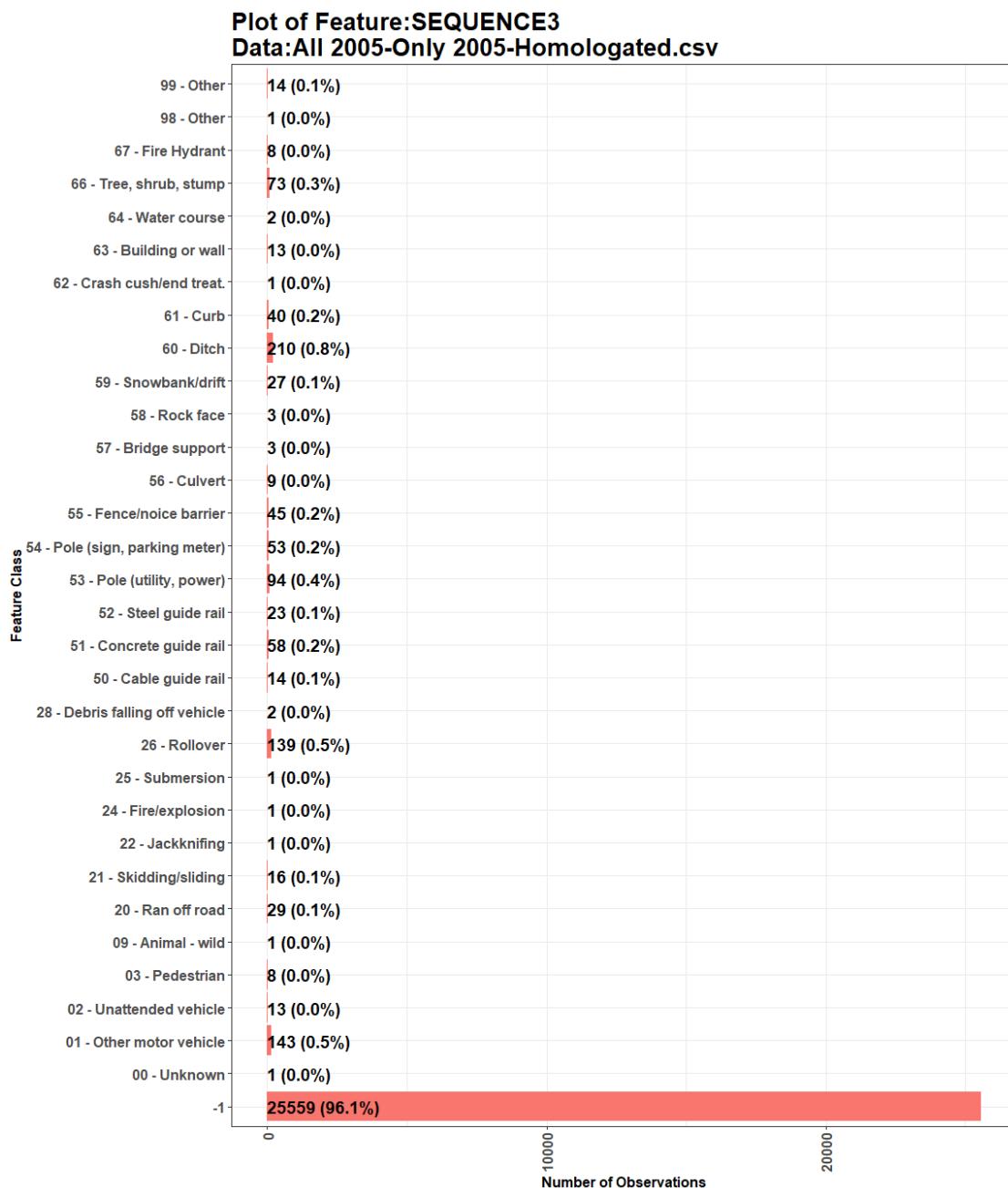
## 24 - Fire/explosion	2	0.0078
## 25 - Submersion	4	0.0156
## 26 - Rollover	153	0.5960
## 27 - Debris on road	1	0.0039
## 28 - Debris falling off vehicle	1	0.0039
## 50 - Cable guide rail	8	0.0312
## 51 - Concrete guide rail	54	0.2104
## 52 - Steel guide rail	17	0.0662
## 53 - Pole (utility, power)	90	0.3506
## 54 - Pole (sign, parking meter)	47	0.1831
## 55 - Fence/noice barrier	45	0.1753
## 56 - Culvert	10	0.0390
## 58 - Rock face	5	0.0195
## 59 - Snowbank/drift	22	0.0857
## 60 - Ditch	225	0.8765
## 61 - Curb	54	0.2104
## 63 - Building or wall	23	0.0896
## 64 - Water course	1	0.0039
## 66 - Tree, shrub, stump	79	0.3078
## 67 - Fire Hydrant	6	0.0234
## 97 - Other	5	0.0195
## 99 - Other	17	0.0662



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 32
```



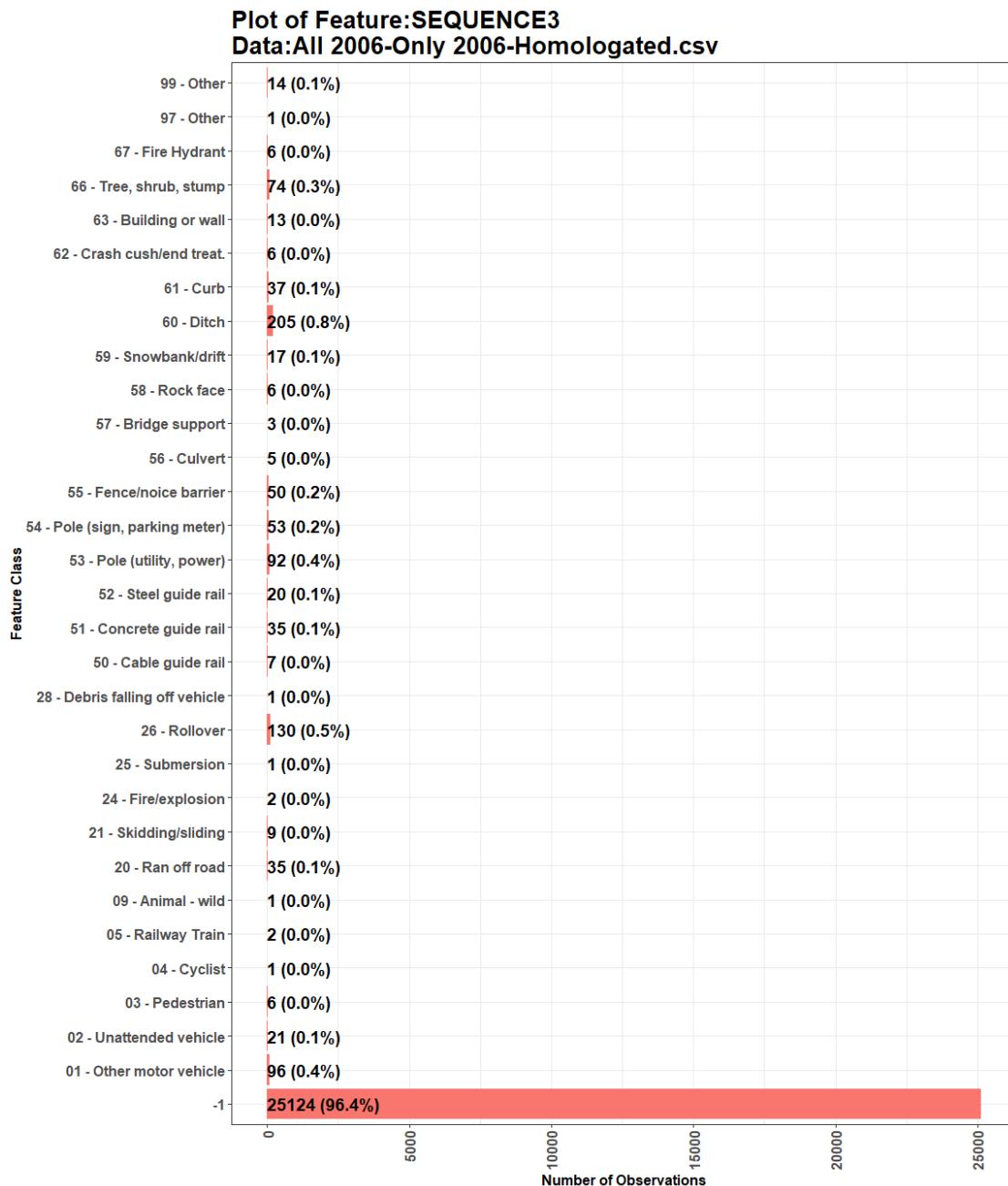
```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25559 96.0684  
## 00 - Unknown 1 0.0038  
## 01 - Other motor vehicle 143 0.5375  
## 02 - Unattended vehicle 13 0.0489  
## 03 - Pedestrian 8 0.0301  
## 09 - Animal - wild 1 0.0038  
## 20 - Ran off road 29 0.1090  
## 21 - Skidding/sliding 16 0.0601  
## 22 - Jackknifing 1 0.0038  
## 24 - Fire/explosion 1 0.0038  
## 25 - Submersion 1 0.0038  
## 26 - Rollover 139 0.5225  
## 28 - Debris falling off vehicle 2 0.0075  
## 50 - Cable guide rail 14 0.0526  
## 51 - Concrete guide rail 58 0.2180  
## 52 - Steel guide rail 23 0.0864  
## 53 - Pole (utility, power) 94 0.3533  
## 54 - Pole (sign, parking meter) 53 0.1992  
## 55 - Fence/noice barrier 45 0.1691  
## 56 - Culvert 9 0.0338  
## 57 - Bridge support 3 0.0113  
## 58 - Rock face 3 0.0113  
## 59 - Snowbank/drift 27 0.1015  
## 60 - Ditch 210 0.7893  
## 61 - Curb 40 0.1503  
## 62 - Crash cush/end treat. 1 0.0038  
## 63 - Building or wall 13 0.0489  
## 64 - Water course 2 0.0075  
## 66 - Tree, shrub, stump 73 0.2744  
## 67 - Fire Hydrant 8 0.0301  
## 98 - Other 1 0.0038  
## 99 - Other 14 0.0526
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 31
```



```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 25124 96.3602  
## 01 - Other motor vehicle 96 0.3682  
## 02 - Unattended vehicle 21 0.0805  
## 03 - Pedestrian 6 0.0230  
## 04 - Cyclist 1 0.0038  
## 05 - Railway Train 2 0.0077  
## 09 - Animal - wild 1 0.0038  
## 20 - Ran off road 35 0.1342  
## 21 - Skidding/sliding 9 0.0345  
## 24 - Fire/explosion 2 0.0077  
## 25 - Submersion 1 0.0038  
## 26 - Rollover 130 0.4986  
## 28 - Debris falling off vehicle 1 0.0038  
## 50 - Cable guide rail 7 0.0268  
## 51 - Concrete guide rail 35 0.1342  
## 52 - Steel guide rail 20 0.0767  
## 53 - Pole (utility, power) 92 0.3529  
## 54 - Pole (sign, parking meter) 53 0.2033  
## 55 - Fence/noice barrier 50 0.1918  
## 56 - Culvert 5 0.0192  
## 57 - Bridge support 3 0.0115  
## 58 - Rock face 6 0.0230  
## 59 - Snowbank/drift 17 0.0652  
## 60 - Ditch 205 0.7863  
## 61 - Curb 37 0.1419  
## 62 - Crash cush/end treat. 6 0.0230  
## 63 - Building or wall 13 0.0499  
## 66 - Tree, shrub, stump 74 0.2838  
## 67 - Fire Hydrant 6 0.0230  
## 97 - Other 1 0.0038  
## 99 - Other 14 0.0537
```



```
##  

## -----  

## CHECKING FEATURE:SEQUENCE3  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

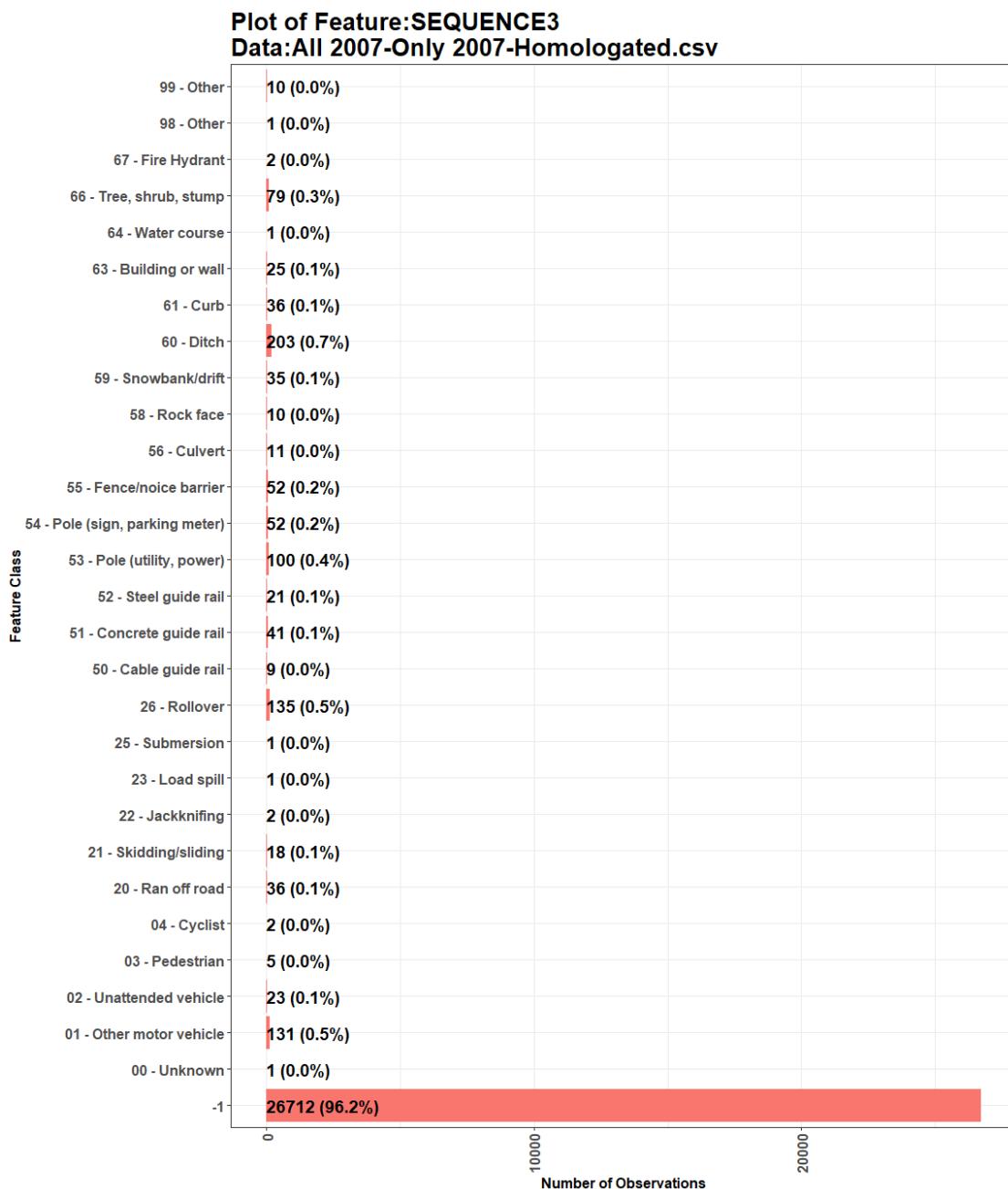
## Summary as Factor Feature:  

##  

## Number of Features: 29
```

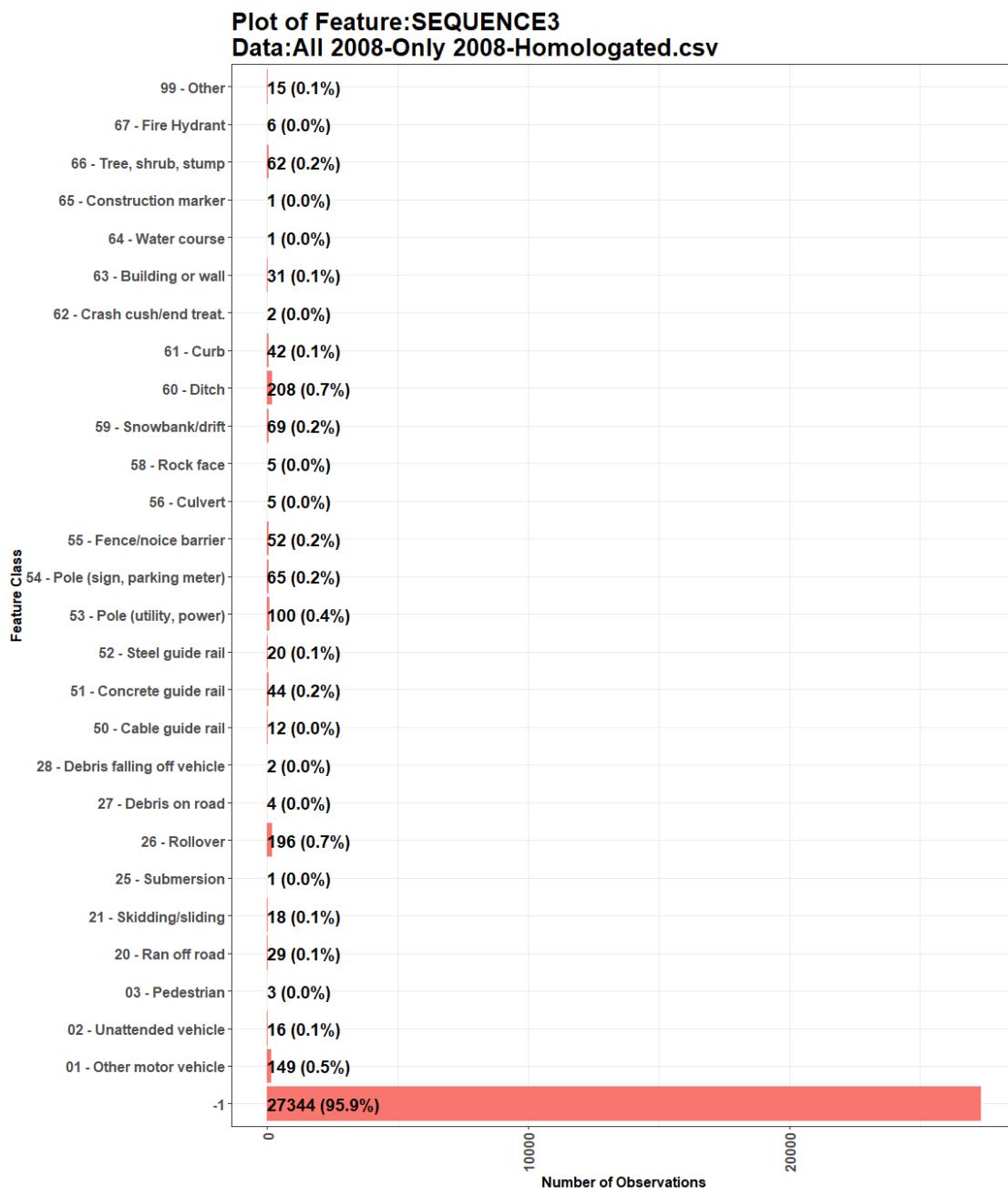


```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26712 96.2421  
## 00 - Unknown 1 0.0036  
## 01 - Other motor vehicle 131 0.4720  
## 02 - Unattended vehicle 23 0.0829  
## 03 - Pedestrian 5 0.0180  
## 04 - Cyclist 2 0.0072  
## 20 - Ran off road 36 0.1297  
## 21 - Skidding/sliding 18 0.0649  
## 22 - Jackknifing 2 0.0072  
## 23 - Load spill 1 0.0036  
## 25 - Submersion 1 0.0036  
## 26 - Rollover 135 0.4864  
## 50 - Cable guide rail 9 0.0324  
## 51 - Concrete guide rail 41 0.1477  
## 52 - Steel guide rail 21 0.0757  
## 53 - Pole (utility, power) 100 0.3603  
## 54 - Pole (sign, parking meter) 52 0.1874  
## 55 - Fence/noice barrier 52 0.1874  
## 56 - Culvert 11 0.0396  
## 58 - Rock face 10 0.0360  
## 59 - Snowbank/drift 35 0.1261  
## 60 - Ditch 203 0.7314  
## 61 - Curb 36 0.1297  
## 63 - Building or wall 25 0.0901  
## 64 - Water course 1 0.0036  
## 66 - Tree, shrub, stump 79 0.2846  
## 67 - Fire Hydrant 2 0.0072  
## 98 - Other 1 0.0036  
## 99 - Other 10 0.0360
```



```
##  
## -----  
## CHECKING FEATURE:SEQUENCE3  
## DATA:All 2008-Only 2008-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 28
```

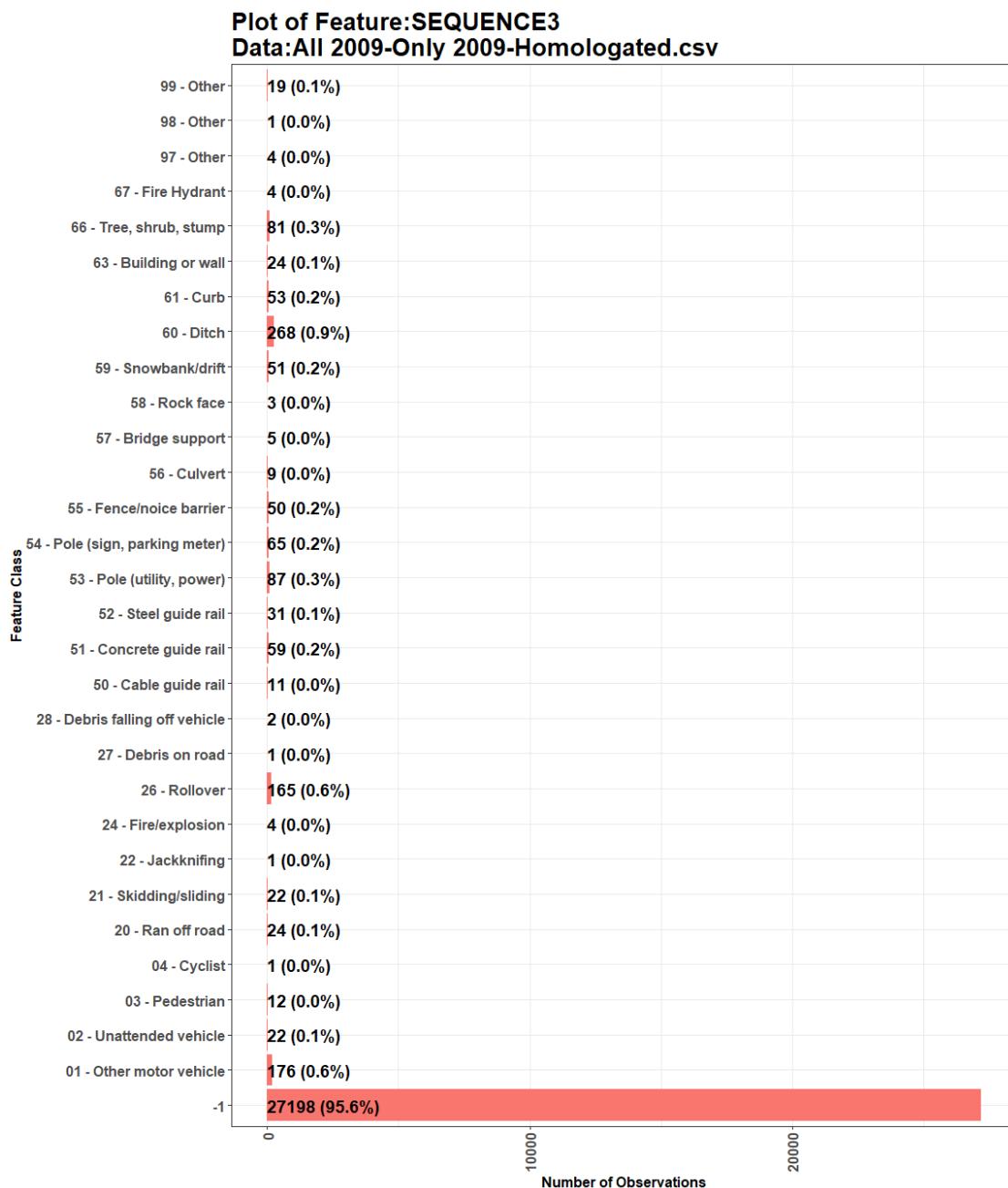
```
##
## TOP 100 FEATURES OF SEQUENCE3
##
## Feature Value Counter Percentage
## -----
## -1 27344 95.9371
## 01 - Other motor vehicle 149 0.5228
## 02 - Unattended vehicle 16 0.0561
## 03 - Pedestrian 3 0.0105
## 20 - Ran off road 29 0.1017
## 21 - Skidding/sliding 18 0.0632
## 25 - Submersion 1 0.0035
## 26 - Rollover 196 0.6877
## 27 - Debris on road 4 0.0140
## 28 - Debris falling off vehicle 2 0.0070
## 50 - Cable guide rail 12 0.0421
## 51 - Concrete guide rail 44 0.1544
## 52 - Steel guide rail 20 0.0702
## 53 - Pole (utility, power) 100 0.3509
## 54 - Pole (sign, parking meter) 65 0.2281
## 55 - Fence/noice barrier 52 0.1824
## 56 - Culvert 5 0.0175
## 58 - Rock face 5 0.0175
## 59 - Snowbank/drift 69 0.2421
## 60 - Ditch 208 0.7298
## 61 - Curb 42 0.1474
## 62 - Crash cush/end treat. 2 0.0070
## 63 - Building or wall 31 0.1088
## 64 - Water course 1 0.0035
## 65 - Construction marker 1 0.0035
## 66 - Tree, shrub, stump 62 0.2175
## 67 - Fire Hydrant 6 0.0211
## 99 - Other 15 0.0526
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 30
```



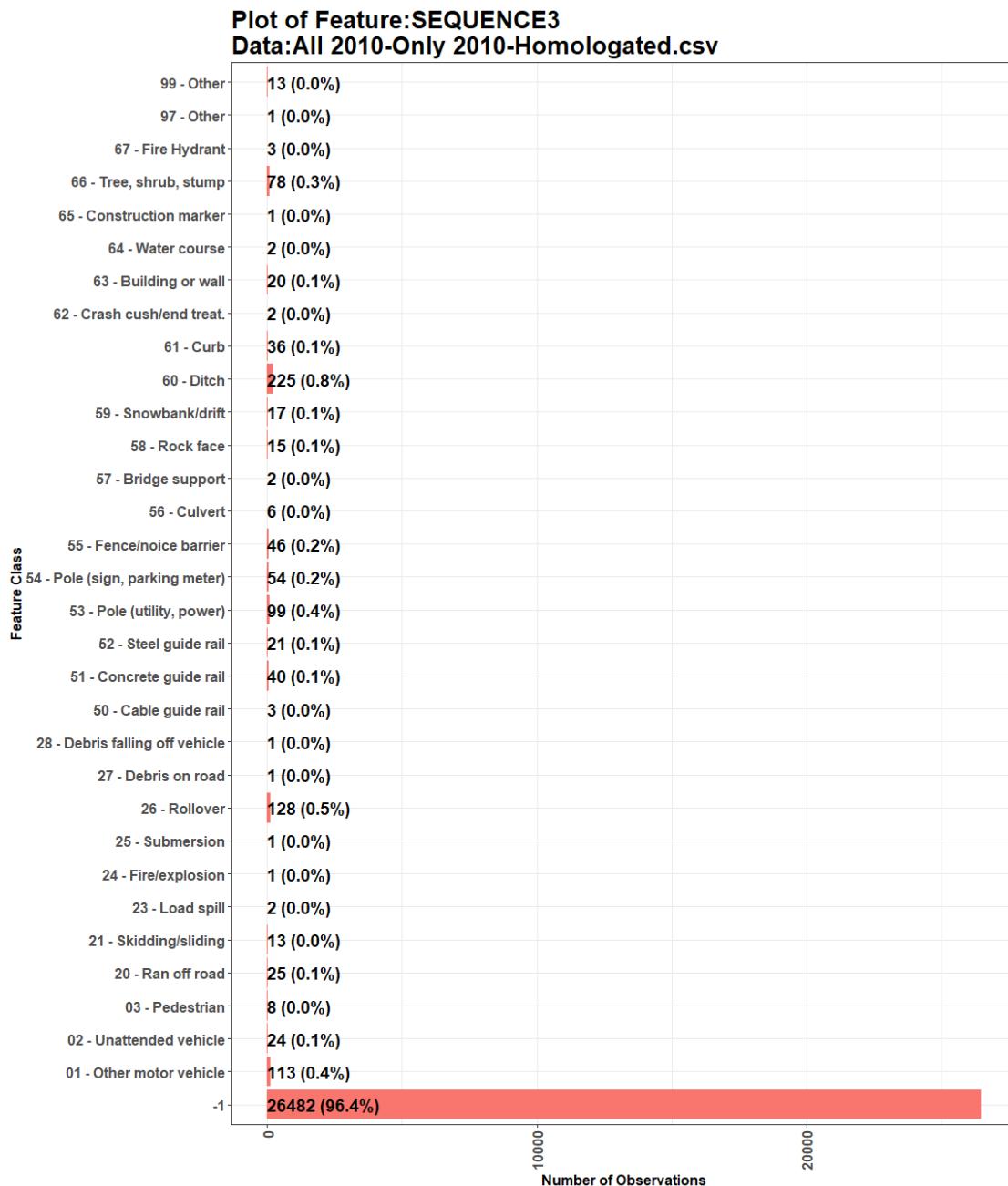
```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 27198 95.5892  
## 01 - Other motor vehicle 176 0.6186  
## 02 - Unattended vehicle 22 0.0773  
## 03 - Pedestrian 12 0.0422  
## 04 - Cyclist 1 0.0035  
## 20 - Ran off road 24 0.0843  
## 21 - Skidding/sliding 22 0.0773  
## 22 - Jackknifing 1 0.0035  
## 24 - Fire/explosion 4 0.0141  
## 26 - Rollover 165 0.5799  
## 27 - Debris on road 1 0.0035  
## 28 - Debris falling off vehicle 2 0.0070  
## 50 - Cable guide rail 11 0.0387  
## 51 - Concrete guide rail 59 0.2074  
## 52 - Steel guide rail 31 0.1090  
## 53 - Pole (utility, power) 87 0.3058  
## 54 - Pole (sign, parking meter) 65 0.2284  
## 55 - Fence/noice barrier 50 0.1757  
## 56 - Culvert 9 0.0316  
## 57 - Bridge support 5 0.0176  
## 58 - Rock face 3 0.0105  
## 59 - Snowbank/drift 51 0.1792  
## 60 - Ditch 268 0.9419  
## 61 - Curb 53 0.1863  
## 63 - Building or wall 24 0.0843  
## 66 - Tree, shrub, stump 81 0.2847  
## 67 - Fire Hydrant 4 0.0141  
## 97 - Other 4 0.0141  
## 98 - Other 1 0.0035  
## 99 - Other 19 0.0668
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 32
```



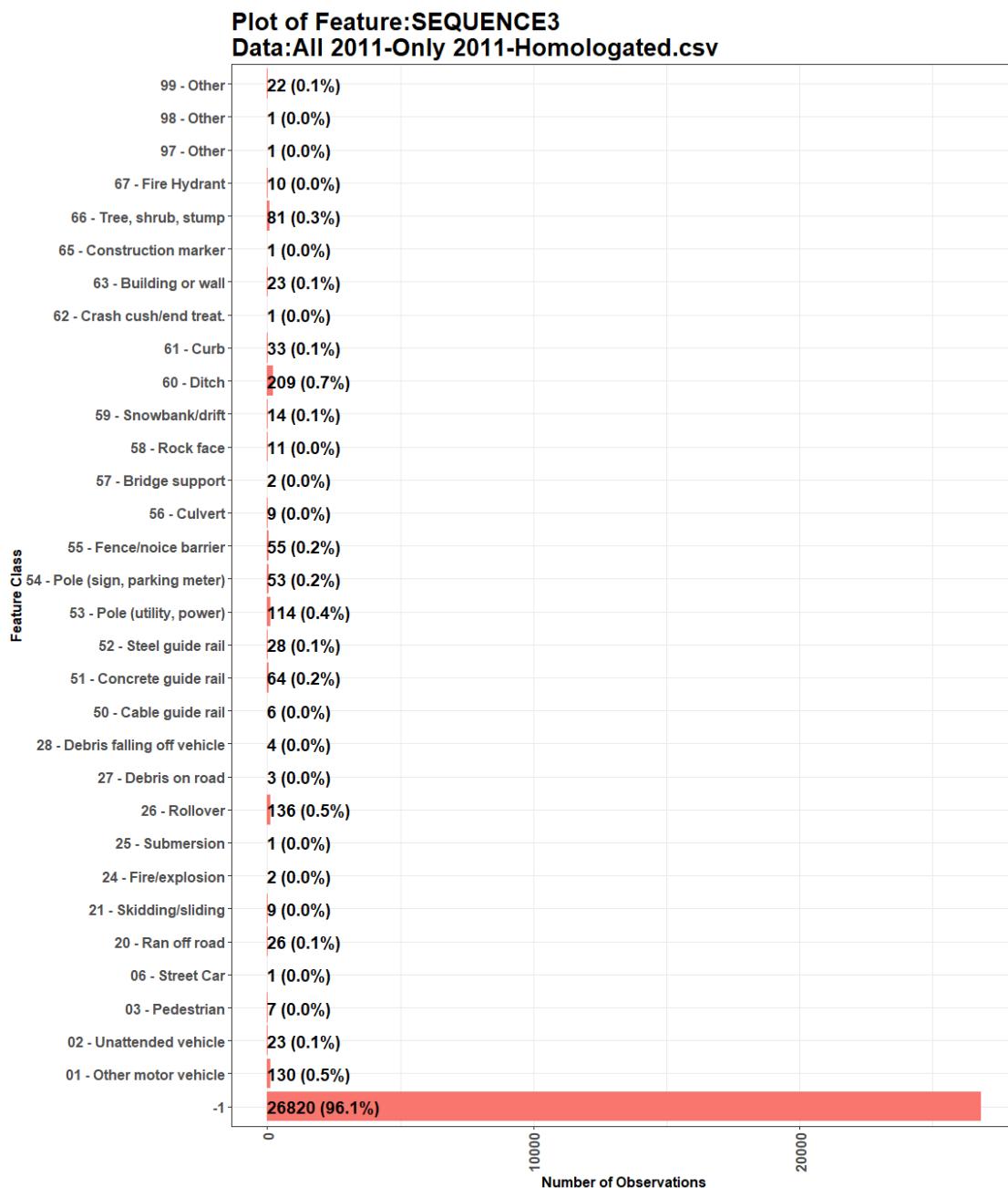
```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26482 96.3577  
## 01 - Other motor vehicle 113 0.4112  
## 02 - Unattended vehicle 24 0.0873  
## 03 - Pedestrian 8 0.0291  
## 20 - Ran off road 25 0.0910  
## 21 - Skidding/sliding 13 0.0473  
## 23 - Load spill 2 0.0073  
## 24 - Fire/explosion 1 0.0036  
## 25 - Submersion 1 0.0036  
## 26 - Rollover 128 0.4657  
## 27 - Debris on road 1 0.0036  
## 28 - Debris falling off vehicle 1 0.0036  
## 50 - Cable guide rail 3 0.0109  
## 51 - Concrete guide rail 40 0.1455  
## 52 - Steel guide rail 21 0.0764  
## 53 - Pole (utility, power) 99 0.3602  
## 54 - Pole (sign, parking meter) 54 0.1965  
## 55 - Fence/noice barrier 46 0.1674  
## 56 - Culvert 6 0.0218  
## 57 - Bridge support 2 0.0073  
## 58 - Rock face 15 0.0546  
## 59 - Snowbank/drift 17 0.0619  
## 60 - Ditch 225 0.8187  
## 61 - Curb 36 0.1310  
## 62 - Crash cush/end treat. 2 0.0073  
## 63 - Building or wall 20 0.0728  
## 64 - Water course 2 0.0073  
## 65 - Construction marker 1 0.0036  
## 66 - Tree, shrub, stump 78 0.2838  
## 67 - Fire Hydrant 3 0.0109  
## 97 - Other 1 0.0036  
## 99 - Other 13 0.0473
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 32
```

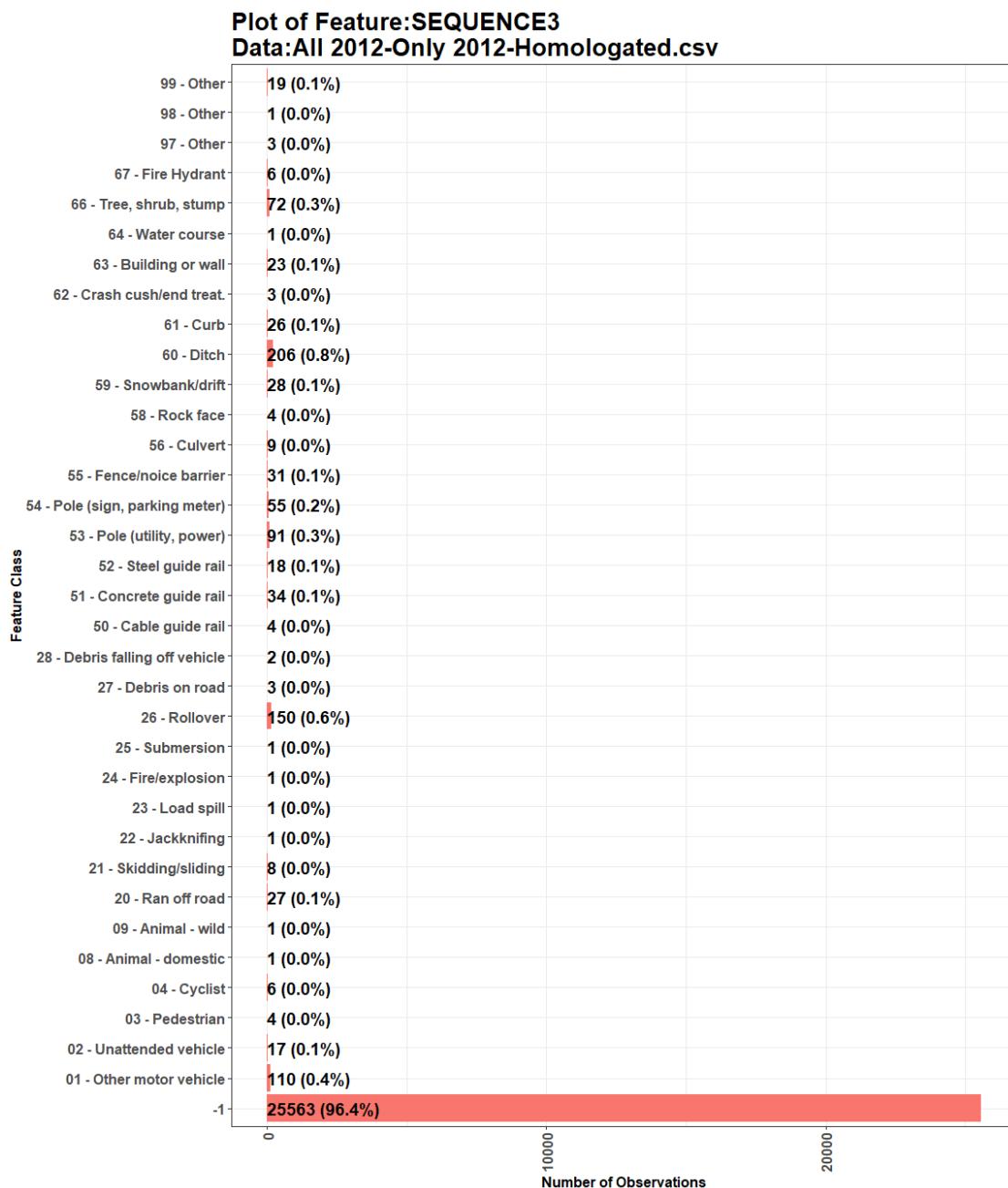


```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## -1 26820 96.1290  
## 01 - Other motor vehicle 130 0.4659  
## 02 - Unattended vehicle 23 0.0824  
## 03 - Pedestrian 7 0.0251  
## 06 - Street Car 1 0.0036  
## 20 - Ran off road 26 0.0932  
## 21 - Skidding/sliding 9 0.0323  
## 24 - Fire/explosion 2 0.0072  
## 25 - Submersion 1 0.0036  
## 26 - Rollover 136 0.4875  
## 27 - Debris on road 3 0.0108  
## 28 - Debris falling off vehicle 4 0.0143  
## 50 - Cable guide rail 6 0.0215  
## 51 - Concrete guide rail 64 0.2294  
## 52 - Steel guide rail 28 0.1004  
## 53 - Pole (utility, power) 114 0.4086  
## 54 - Pole (sign, parking meter) 53 0.1900  
## 55 - Fence/noice barrier 55 0.1971  
## 56 - Culvert 9 0.0323  
## 57 - Bridge support 2 0.0072  
## 58 - Rock face 11 0.0394  
## 59 - Snowbank/drift 14 0.0502  
## 60 - Ditch 209 0.7491  
## 61 - Curb 33 0.1183  
## 62 - Crash cush/end treat. 1 0.0036  
## 63 - Building or wall 23 0.0824  
## 65 - Construction marker 1 0.0036  
## 66 - Tree, shrub, stump 81 0.2903  
## 67 - Fire Hydrant 10 0.0358  
## 97 - Other 1 0.0036  
## 98 - Other 1 0.0036  
## 99 - Other 22 0.0789
```



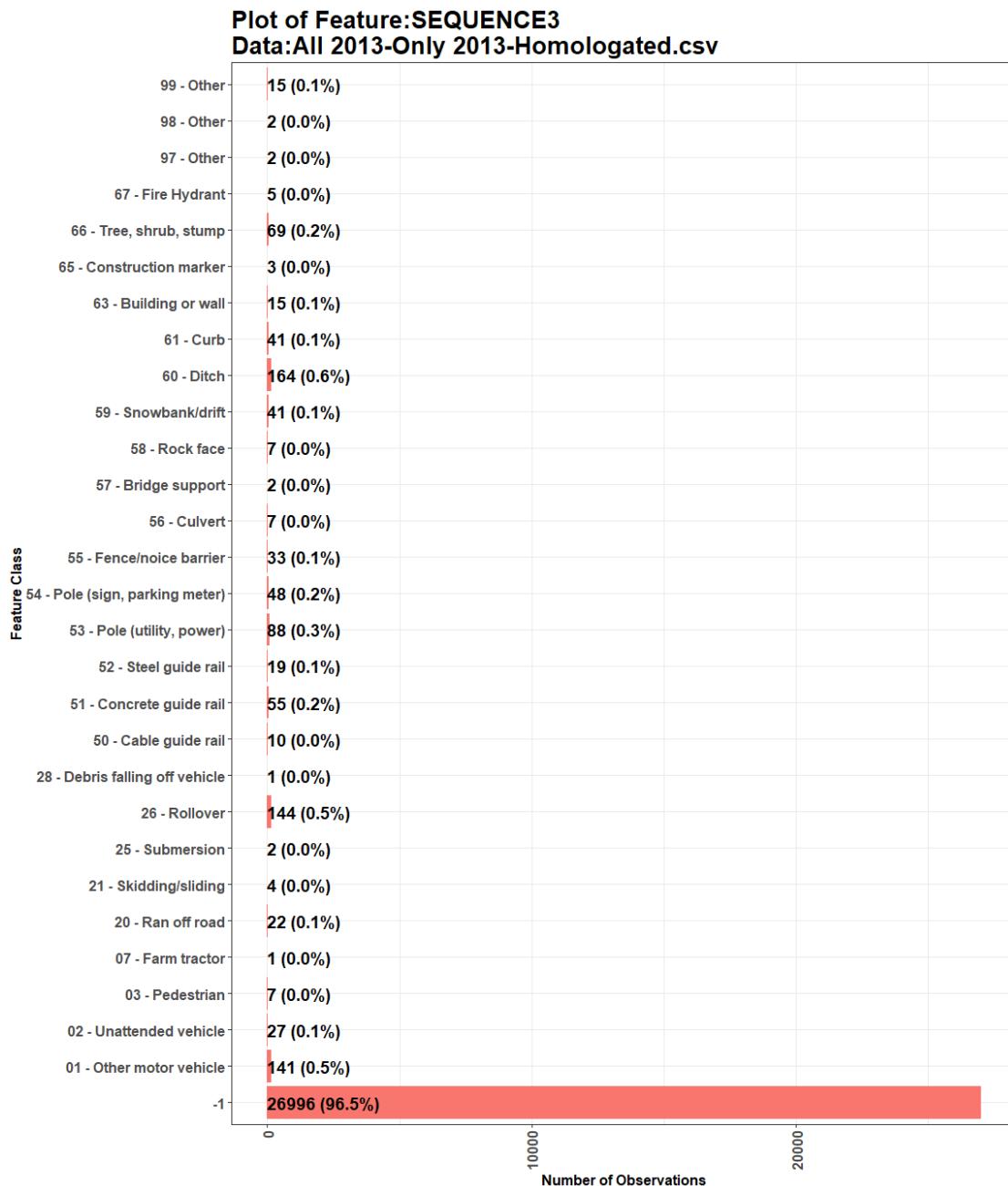
```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

```
##
## TOP 100 FEATURES OF SEQUENCE3
##
## Feature Value Counter Percentage
## -----
## -1 25563 96.3551
## 01 - Other motor vehicle 110 0.4146
## 02 - Unattended vehicle 17 0.0641
## 03 - Pedestrian 4 0.0151
## 04 - Cyclist 6 0.0226
## 08 - Animal - domestic 1 0.0038
## 09 - Animal - wild 1 0.0038
## 20 - Ran off road 27 0.1018
## 21 - Skidding/sliding 8 0.0302
## 22 - Jackknifing 1 0.0038
## 23 - Load spill 1 0.0038
## 24 - Fire/explosion 1 0.0038
## 25 - Submersion 1 0.0038
## 26 - Rollover 150 0.5654
## 27 - Debris on road 3 0.0113
## 28 - Debris falling off vehicle 2 0.0075
## 50 - Cable guide rail 4 0.0151
## 51 - Concrete guide rail 34 0.1282
## 52 - Steel guide rail 18 0.0678
## 53 - Pole (utility, power) 91 0.3430
## 54 - Pole (sign, parking meter) 55 0.2073
## 55 - Fence/noice barrier 31 0.1168
## 56 - Culvert 9 0.0339
## 58 - Rock face 4 0.0151
## 59 - Snowbank/drift 28 0.1055
## 60 - Ditch 206 0.7765
## 61 - Curb 26 0.0980
## 62 - Crash cush/end treat. 3 0.0113
## 63 - Building or wall 23 0.0867
## 64 - Water course 1 0.0038
## 66 - Tree, shrub, stump 72 0.2714
## 67 - Fire Hydrant 6 0.0226
## 97 - Other 3 0.0113
## 98 - Other 1 0.0038
## 99 - Other 19 0.0716
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 29
```

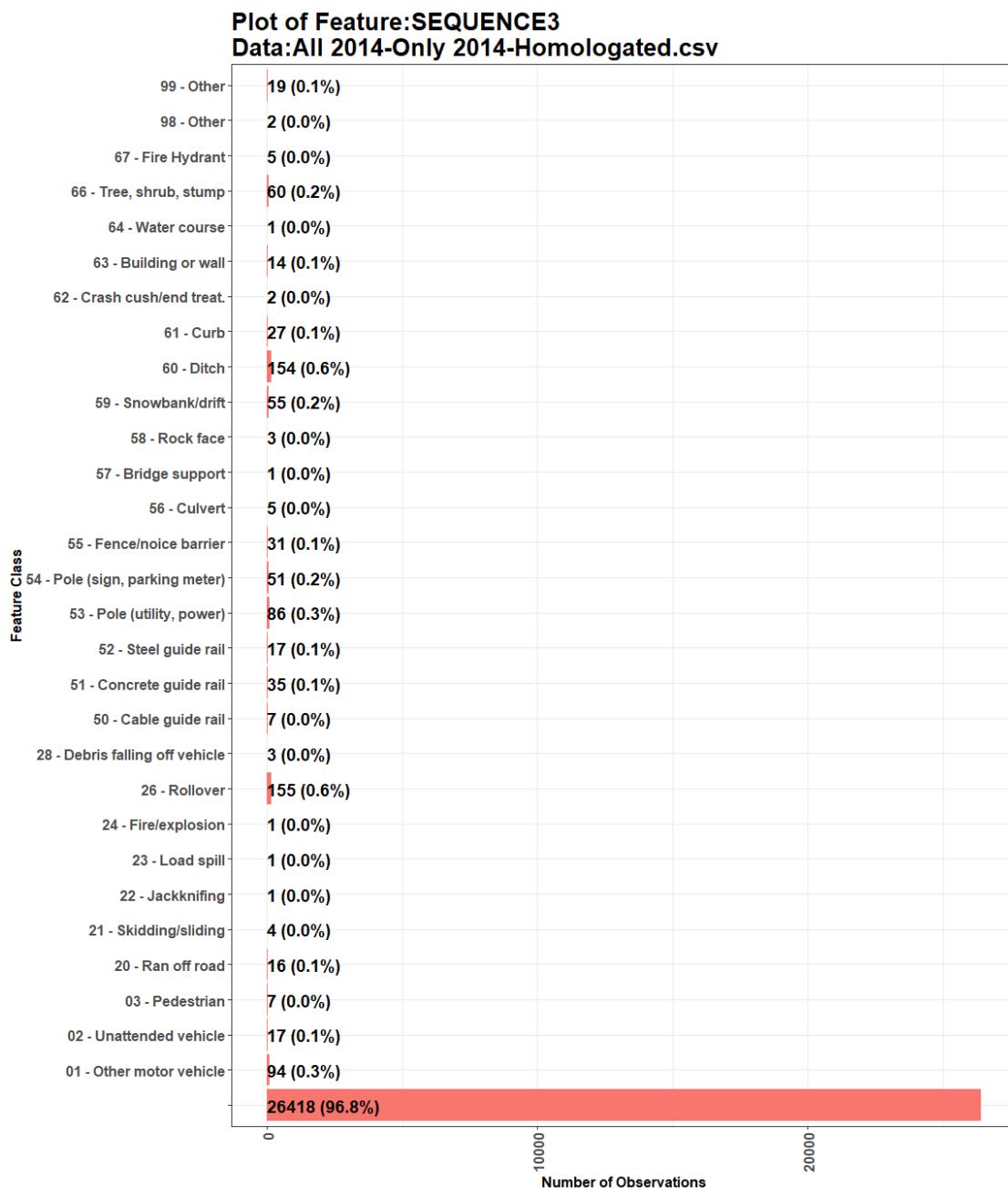
```
##
## TOP 100 FEATURES OF SEQUENCE3
##
## Feature Value Counter Percentage
## -----
## -1 26996 96.5142
## 01 - Other motor vehicle 141 0.5041
## 02 - Unattended vehicle 27 0.0965
## 03 - Pedestrian 7 0.0250
## 07 - Farm tractor 1 0.0036
## 20 - Ran off road 22 0.0787
## 21 - Skidding/sliding 4 0.0143
## 25 - Submersion 2 0.0072
## 26 - Rollover 144 0.5148
## 28 - Debris falling off vehicle 1 0.0036
## 50 - Cable guide rail 10 0.0358
## 51 - Concrete guide rail 55 0.1966
## 52 - Steel guide rail 19 0.0679
## 53 - Pole (utility, power) 88 0.3146
## 54 - Pole (sign, parking meter) 48 0.1716
## 55 - Fence/noice barrier 33 0.1180
## 56 - Culvert 7 0.0250
## 57 - Bridge support 2 0.0072
## 58 - Rock face 7 0.0250
## 59 - Snowbank/drift 41 0.1466
## 60 - Ditch 164 0.5863
## 61 - Curb 41 0.1466
## 63 - Building or wall 15 0.0536
## 65 - Construction marker 3 0.0107
## 66 - Tree, shrub, stump 69 0.2467
## 67 - Fire Hydrant 5 0.0179
## 97 - Other 2 0.0072
## 98 - Other 2 0.0072
## 99 - Other 15 0.0536
```



```
##
## -----
## CHECKING FEATURE:SEQUENCE3
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:26418
##
## Summary as Factor Feature:
##
## Number of Features: 30
```



```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## 26418 96.7976  
## 01 - Other motor vehicle 94 0.3444  
## 02 - Unattended vehicle 17 0.0623  
## 03 - Pedestrian 7 0.0256  
## 20 - Ran off road 16 0.0586  
## 21 - Skidding/sliding 4 0.0147  
## 22 - Jackknifing 1 0.0037  
## 23 - Load spill 1 0.0037  
## 24 - Fire/explosion 1 0.0037  
## 26 - Rollover 155 0.5679  
## 28 - Debris falling off vehicle 3 0.0110  
## 50 - Cable guide rail 7 0.0256  
## 51 - Concrete guide rail 35 0.1282  
## 52 - Steel guide rail 17 0.0623  
## 53 - Pole (utility, power) 86 0.3151  
## 54 - Pole (sign, parking meter) 51 0.1869  
## 55 - Fence/noice barrier 31 0.1136  
## 56 - Culvert 5 0.0183  
## 57 - Bridge support 1 0.0037  
## 58 - Rock face 3 0.0110  
## 59 - Snowbank/drift 55 0.2015  
## 60 - Ditch 154 0.5643  
## 61 - Curb 27 0.0989  
## 62 - Crash cush/end treat. 2 0.0073  
## 63 - Building or wall 14 0.0513  
## 64 - Water course 1 0.0037  
## 66 - Tree, shrub, stump 60 0.2198  
## 67 - Fire Hydrant 5 0.0183  
## 98 - Other 2 0.0073  
## 99 - Other 19 0.0696
```



```
##  

## -----  

## CHECKING FEATURE:SEQUENCE3  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:27071  

##  

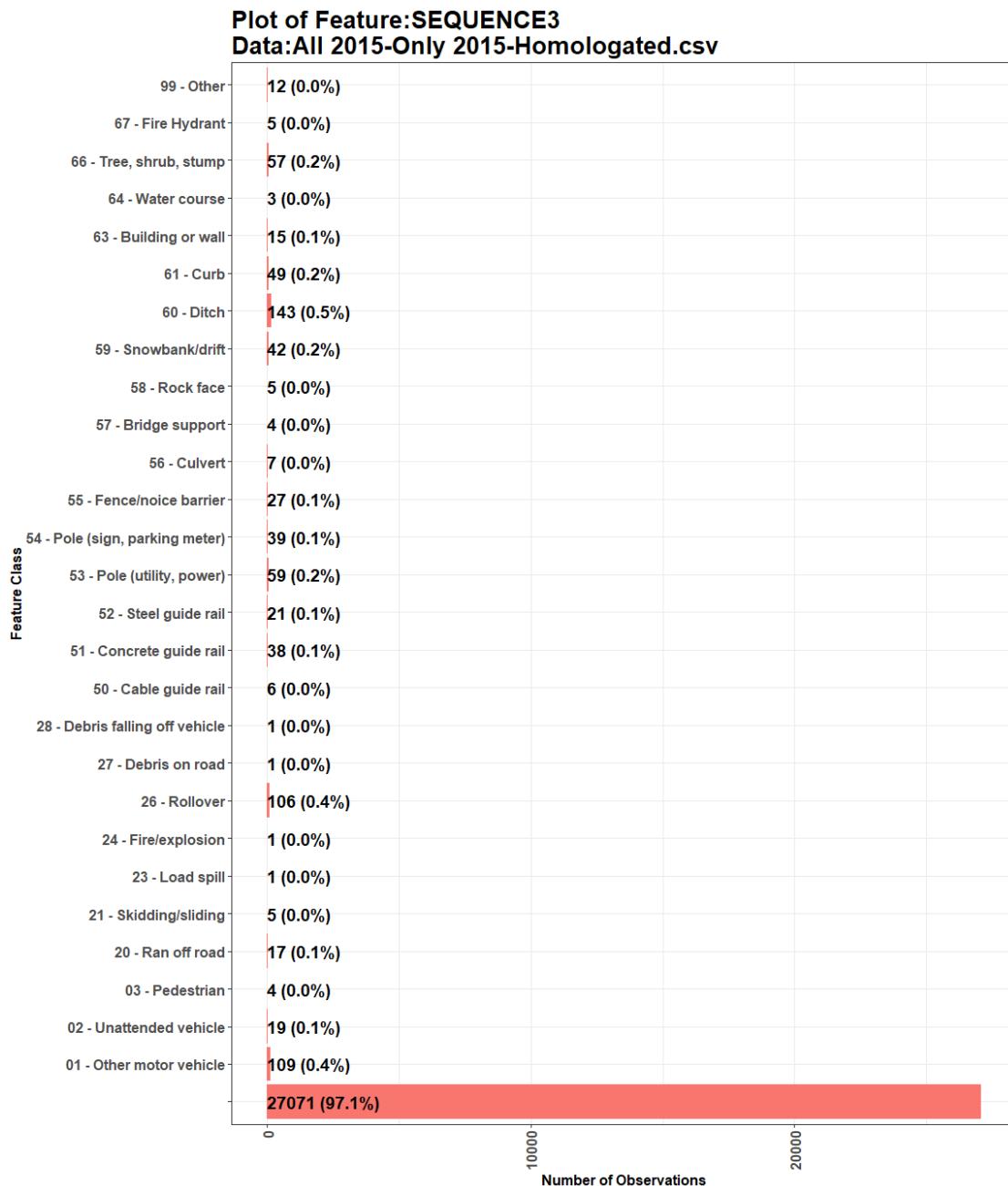
## Summary as Factor Feature:  

##  

## Number of Features: 28
```



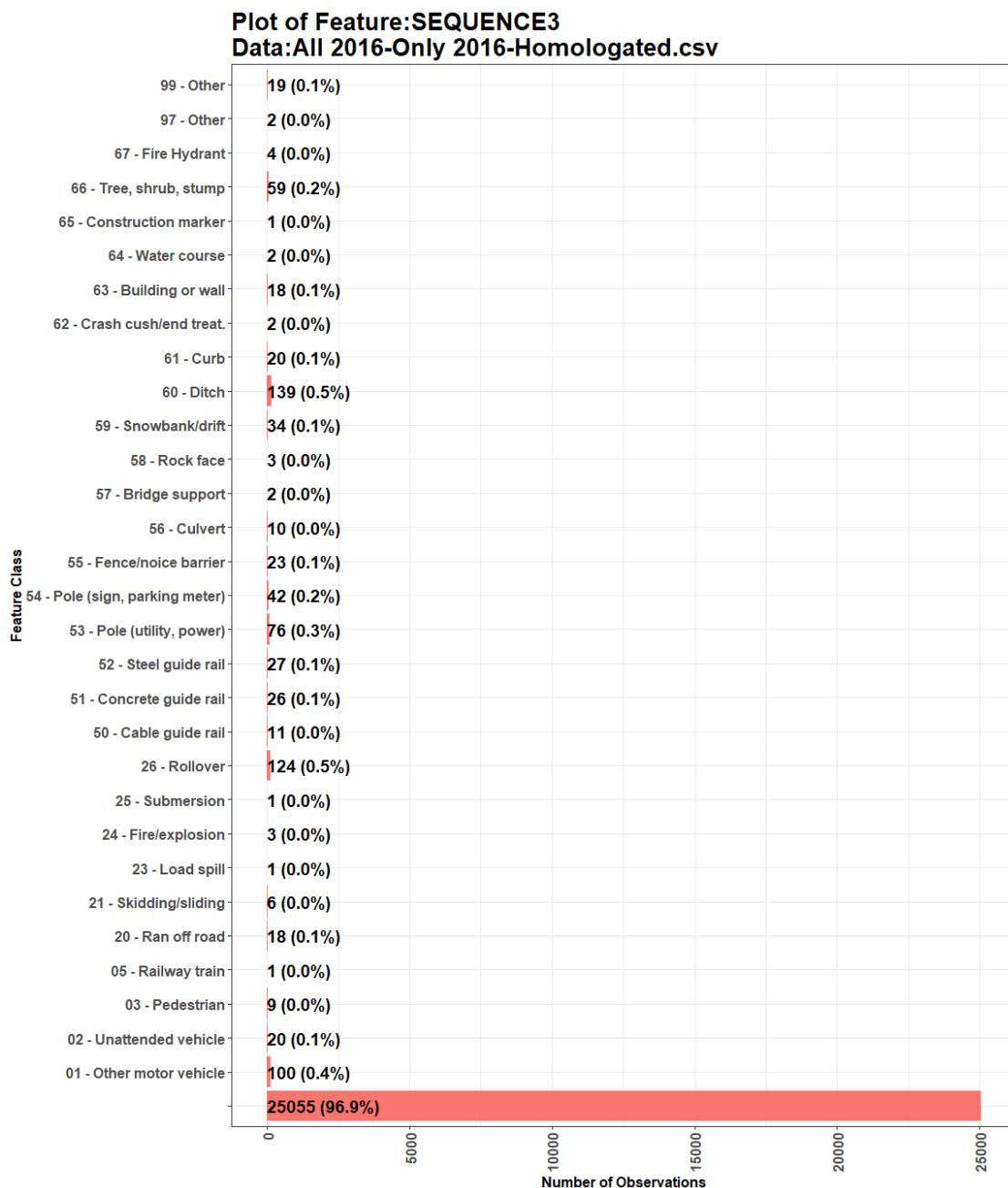
```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## 27071 97.1436  
## 01 - Other motor vehicle 109 0.3911  
## 02 - Unattended vehicle 19 0.0682  
## 03 - Pedestrian 4 0.0144  
## 20 - Ran off road 17 0.0610  
## 21 - Skidding/sliding 5 0.0179  
## 23 - Load spill 1 0.0036  
## 24 - Fire/explosion 1 0.0036  
## 26 - Rollover 106 0.3804  
## 27 - Debris on road 1 0.0036  
## 28 - Debris falling off vehicle 1 0.0036  
## 50 - Cable guide rail 6 0.0215  
## 51 - Concrete guide rail 38 0.1364  
## 52 - Steel guide rail 21 0.0754  
## 53 - Pole (utility, power) 59 0.2117  
## 54 - Pole (sign, parking meter) 39 0.1400  
## 55 - Fence/noice barrier 27 0.0969  
## 56 - Culvert 7 0.0251  
## 57 - Bridge support 4 0.0144  
## 58 - Rock face 5 0.0179  
## 59 - Snowbank/drift 42 0.1507  
## 60 - Ditch 143 0.5132  
## 61 - Curb 49 0.1758  
## 63 - Building or wall 15 0.0538  
## 64 - Water course 3 0.0108  
## 66 - Tree, shrub, stump 57 0.2045  
## 67 - Fire Hydrant 5 0.0179  
## 99 - Other 12 0.0431
```



```
##  
## -----  
## CHECKING FEATURE:SEQUENCE3  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:25055  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 31
```



```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## 25055 96.8946  
## 01 - Other motor vehicle 100 0.3867  
## 02 - Unattended vehicle 20 0.0773  
## 03 - Pedestrian 9 0.0348  
## 05 - Railway train 1 0.0039  
## 20 - Ran off road 18 0.0696  
## 21 - Skidding/sliding 6 0.0232  
## 23 - Load spill 1 0.0039  
## 24 - Fire/explosion 3 0.0116  
## 25 - Submersion 1 0.0039  
## 26 - Rollover 124 0.4795  
## 50 - Cable guide rail 11 0.0425  
## 51 - Concrete guide rail 26 0.1005  
## 52 - Steel guide rail 27 0.1044  
## 53 - Pole (utility, power) 76 0.2939  
## 54 - Pole (sign, parking meter) 42 0.1624  
## 55 - Fence/noice barrier 23 0.0889  
## 56 - Culvert 10 0.0387  
## 57 - Bridge support 2 0.0077  
## 58 - Rock face 3 0.0116  
## 59 - Snowbank/drift 34 0.1315  
## 60 - Ditch 139 0.5376  
## 61 - Curb 20 0.0773  
## 62 - Crash cush/end treat. 2 0.0077  
## 63 - Building or wall 18 0.0696  
## 64 - Water course 2 0.0077  
## 65 - Construction marker 1 0.0039  
## 66 - Tree, shrub, stump 59 0.2282  
## 67 - Fire Hydrant 4 0.0155  
## 97 - Other 2 0.0077  
## 99 - Other 19 0.0735
```



```
##  

## -----  

## CHECKING FEATURE:SEQUENCE3  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:25787  

##  

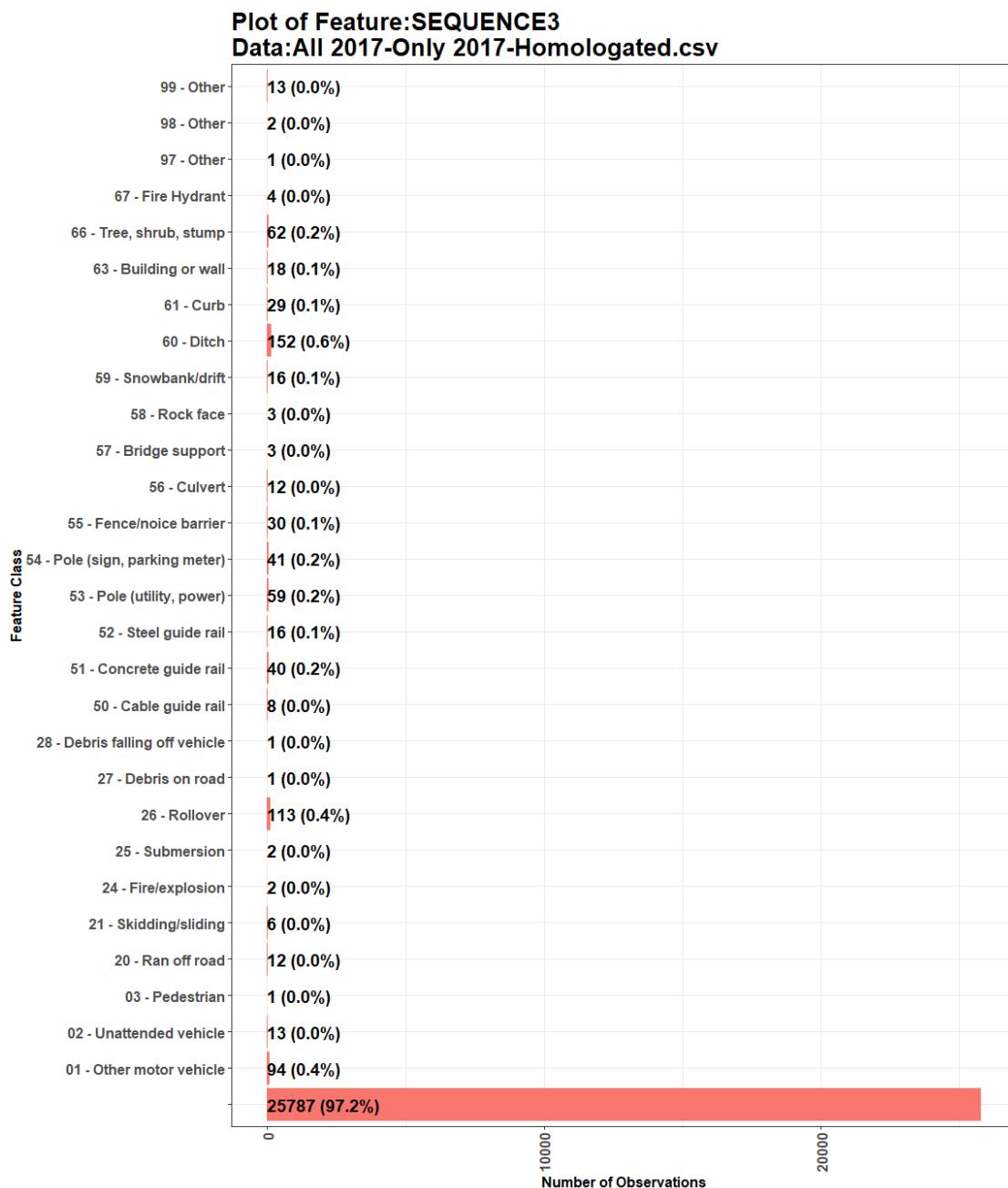
## Summary as Factor Feature:  

##  

## Number of Features: 29
```

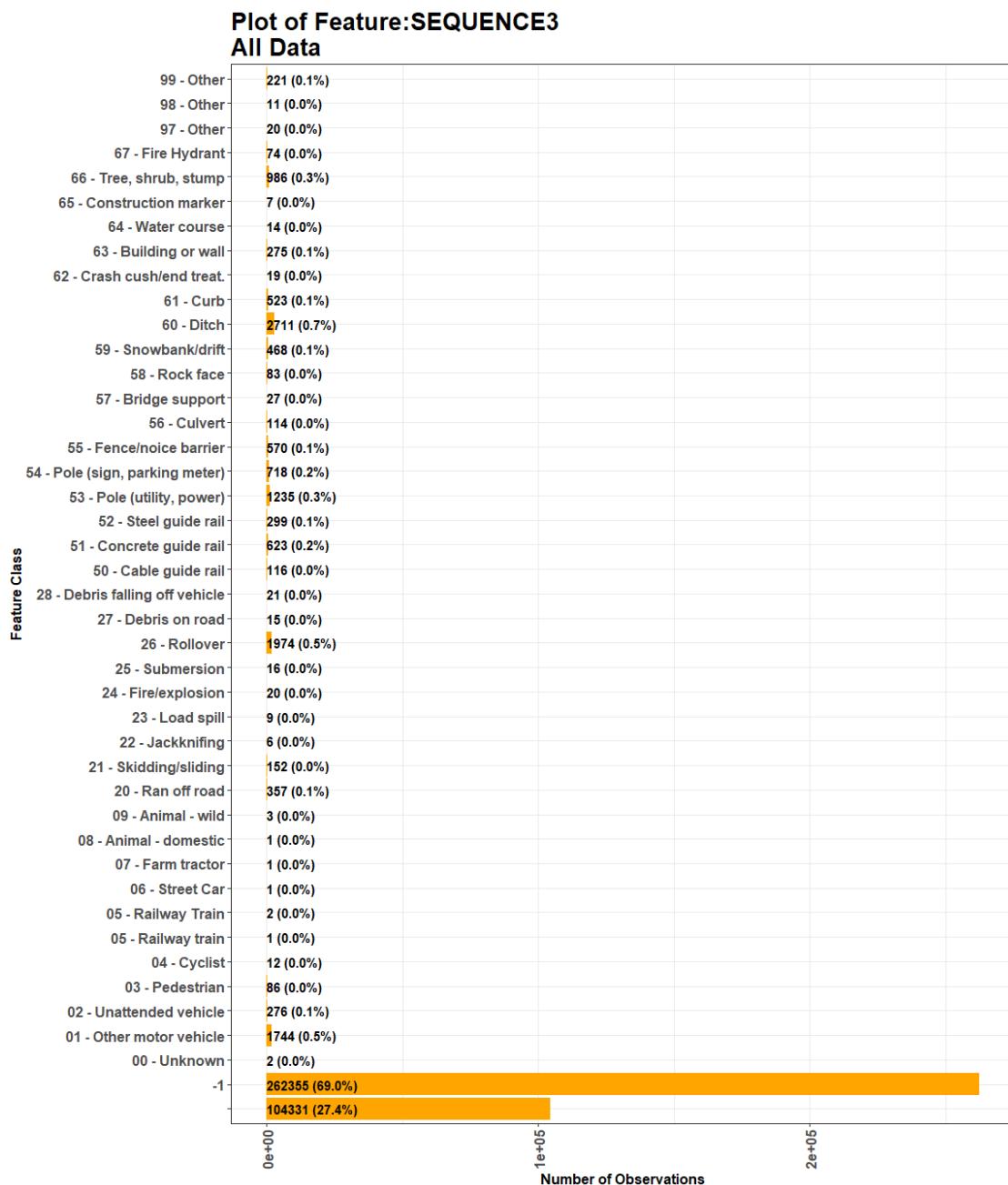


```
##  
## TOP 100 FEATURES OF SEQUENCE3  
##  
## Feature Value Counter Percentage  
## -----  
## 25787 97.1591  
## 01 - Other motor vehicle 94 0.3542  
## 02 - Unattended vehicle 13 0.0490  
## 03 - Pedestrian 1 0.0038  
## 20 - Ran off road 12 0.0452  
## 21 - Skidding/sliding 6 0.0226  
## 24 - Fire/explosion 2 0.0075  
## 25 - Submersion 2 0.0075  
## 26 - Rollover 113 0.4258  
## 27 - Debris on road 1 0.0038  
## 28 - Debris falling off vehicle 1 0.0038  
## 50 - Cable guide rail 8 0.0301  
## 51 - Concrete guide rail 40 0.1507  
## 52 - Steel guide rail 16 0.0603  
## 53 - Pole (utility, power) 59 0.2223  
## 54 - Pole (sign, parking meter) 41 0.1545  
## 55 - Fence/noice barrier 30 0.1130  
## 56 - Culvert 12 0.0452  
## 57 - Bridge support 3 0.0113  
## 58 - Rock face 3 0.0113  
## 59 - Snowbank/drift 16 0.0603  
## 60 - Ditch 152 0.5727  
## 61 - Curb 29 0.1093  
## 63 - Building or wall 18 0.0678  
## 66 - Tree, shrub, stump 62 0.2336  
## 67 - Fire Hydrant 4 0.0151  
## 97 - Other 1 0.0038  
## 98 - Other 2 0.0075  
## 99 - Other 13 0.0490
```



```
##
## =====
## FINAL INFO CHECKING FEATURE:SEQUENCE3
## ALL DATA...
## =====
## Number of Blank Values:104331
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
```

```
##          25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##          26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858          26541
##
##
## Summary as Factor Feature:
## Number of Features: 43
```



```
## [1] "TOP 100 FEATURES COUNTERS OF:SEQUENCE3"
```

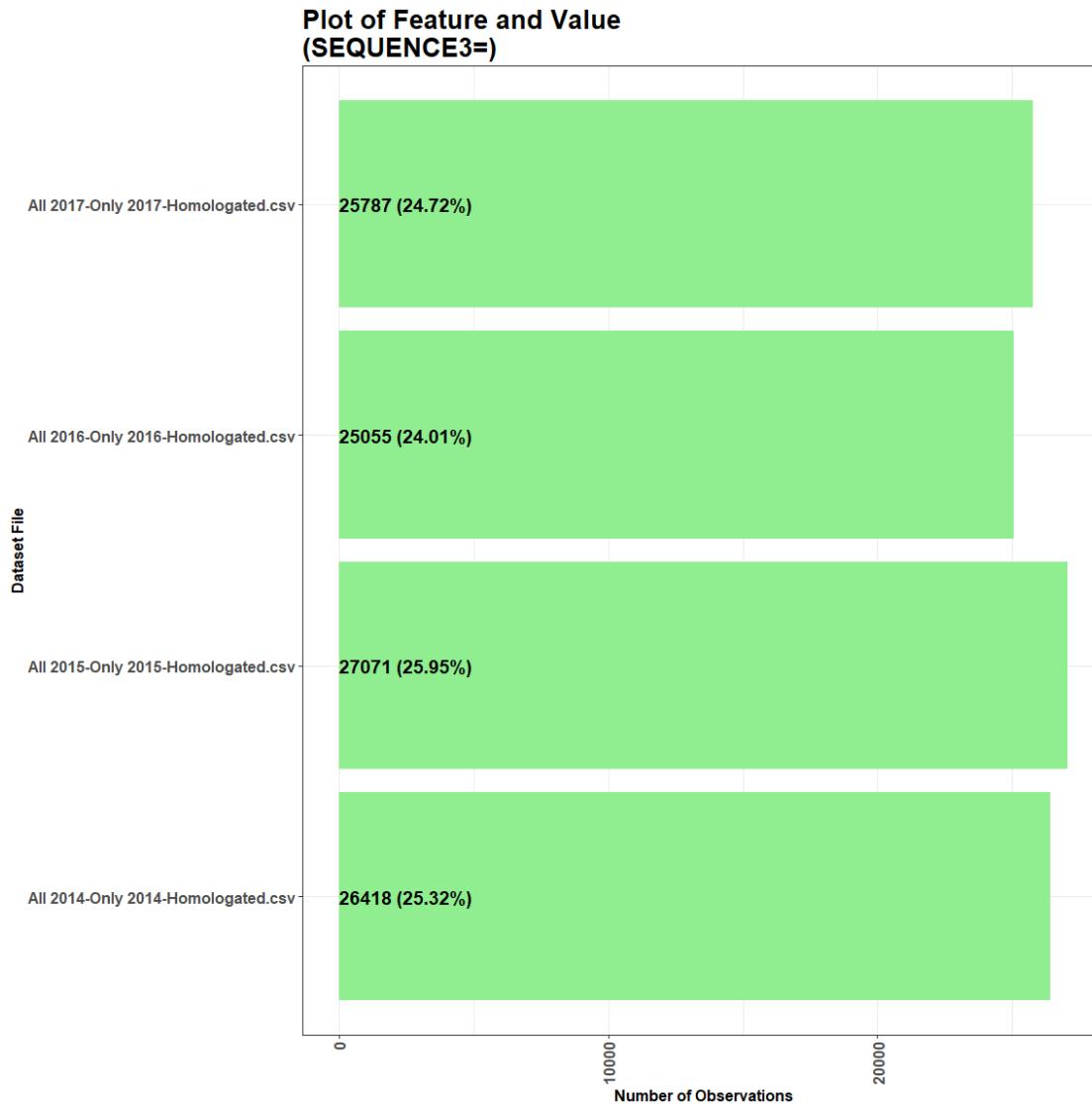
Feature Value	Counter	Percentage
-1	104331	27.4195
00 - Unknown	2	0.0005
01 - Other motor vehicle	1744	0.4583
02 - Unattended vehicle	276	0.0725

03 - Pedestrian	86	0.0226
04 - Cyclist	12	0.0032
05 - Railway train	1	0.0003
05 - Railway Train	2	0.0005
06 - Street Car	1	0.0003
07 - Farm tractor	1	0.0003
08 - Animal - domestic	1	0.0003
09 - Animal - wild	3	0.0008
20 - Ran off road	357	0.0938
21 - Skidding/sliding	152	0.0399
22 - Jackknifing	6	0.0016
23 - Load spill	9	0.0024
24 - Fire/explosion	20	0.0053
25 - Submersion	16	0.0042
26 - Rollover	1974	0.5188
27 - Debris on road	15	0.0039
28 - Debris falling off vehicle	21	0.0055
50 - Cable guide rail	116	0.0305
51 - Concrete guide rail	623	0.1637
52 - Steel guide rail	299	0.0786
53 - Pole (utility, power)	1235	0.3246
54 - Pole (sign, parking meter)	718	0.1887
55 - Fence/noice barrier	570	0.1498
56 - Culvert	114	0.0300
57 - Bridge support	27	0.0071
58 - Rock face	83	0.0218
59 - Snowbank/drift	468	0.1230
60 - Ditch	2711	0.7125
61 - Curb	523	0.1375
62 - Crash cush/end treat.	19	0.0050
63 - Building or wall	275	0.0723
64 - Water course	14	0.0037
65 - Construction marker	7	0.0018
66 - Tree, shrub, stump	986	0.2591
67 - Fire Hydrant	74	0.0194

97 - Other	20	0.0053
98 - Other	11	0.0029
99 - Other	221	0.0581

21.1 SEQUENCE3 = “” (Blank)

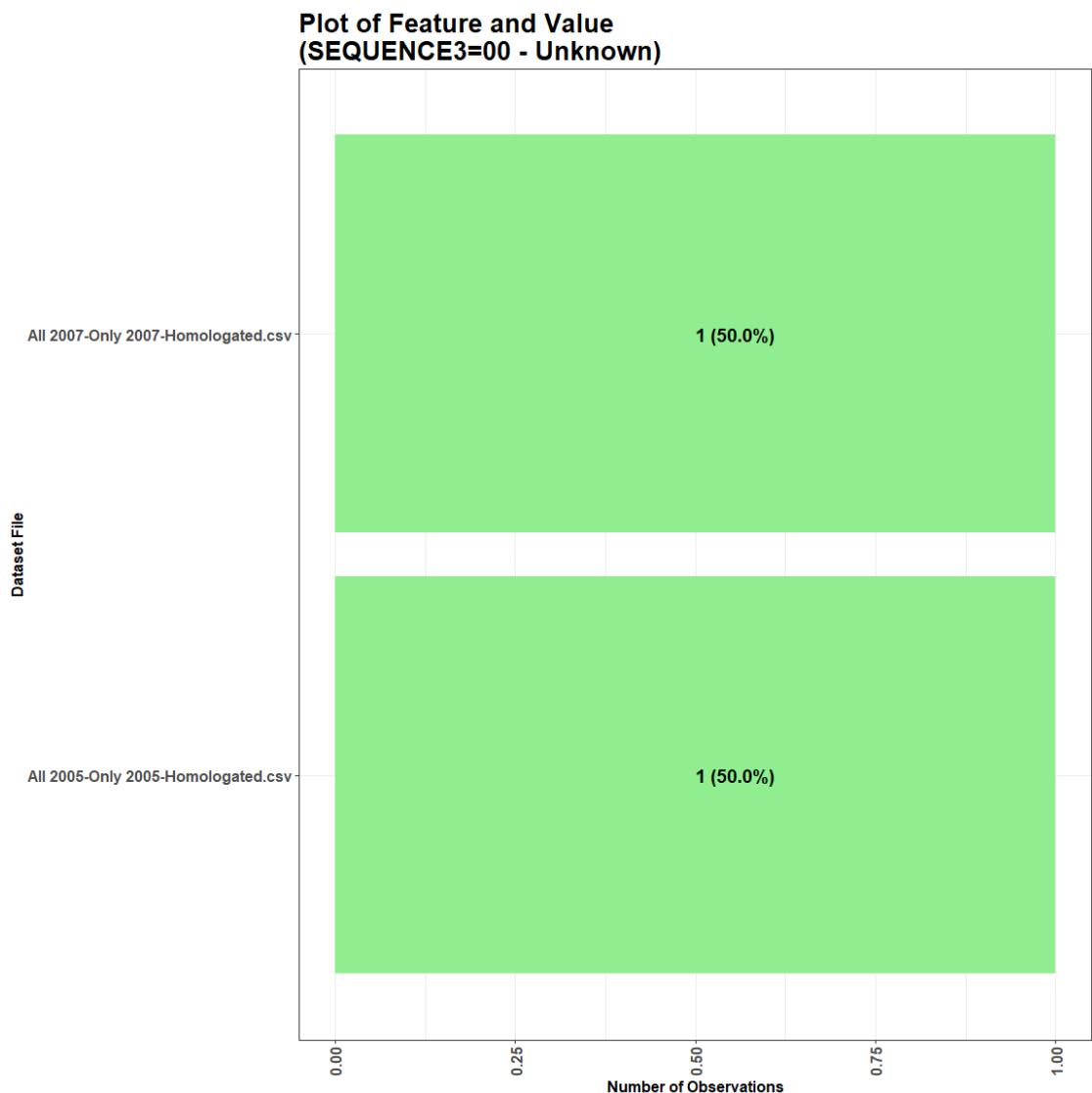
```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE3=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 26418 27071  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25055 25787
```



DATASET FILE	COUNTER OF (SEQUENCE3=)	Percentage
All 2014-Only 2014-Homologated.csv	26418	25.32
All 2015-Only 2015-Homologated.csv	27071	25.95
All 2016-Only 2016-Homologated.csv	25055	24.01
All 2017-Only 2017-Homologated.csv	25787	24.72

21.2 SEQUENCE3 = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE3=00 - Unknown)  
##  
## Summary per Data File:  
## All 2005-Only 2005-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 1 1
```

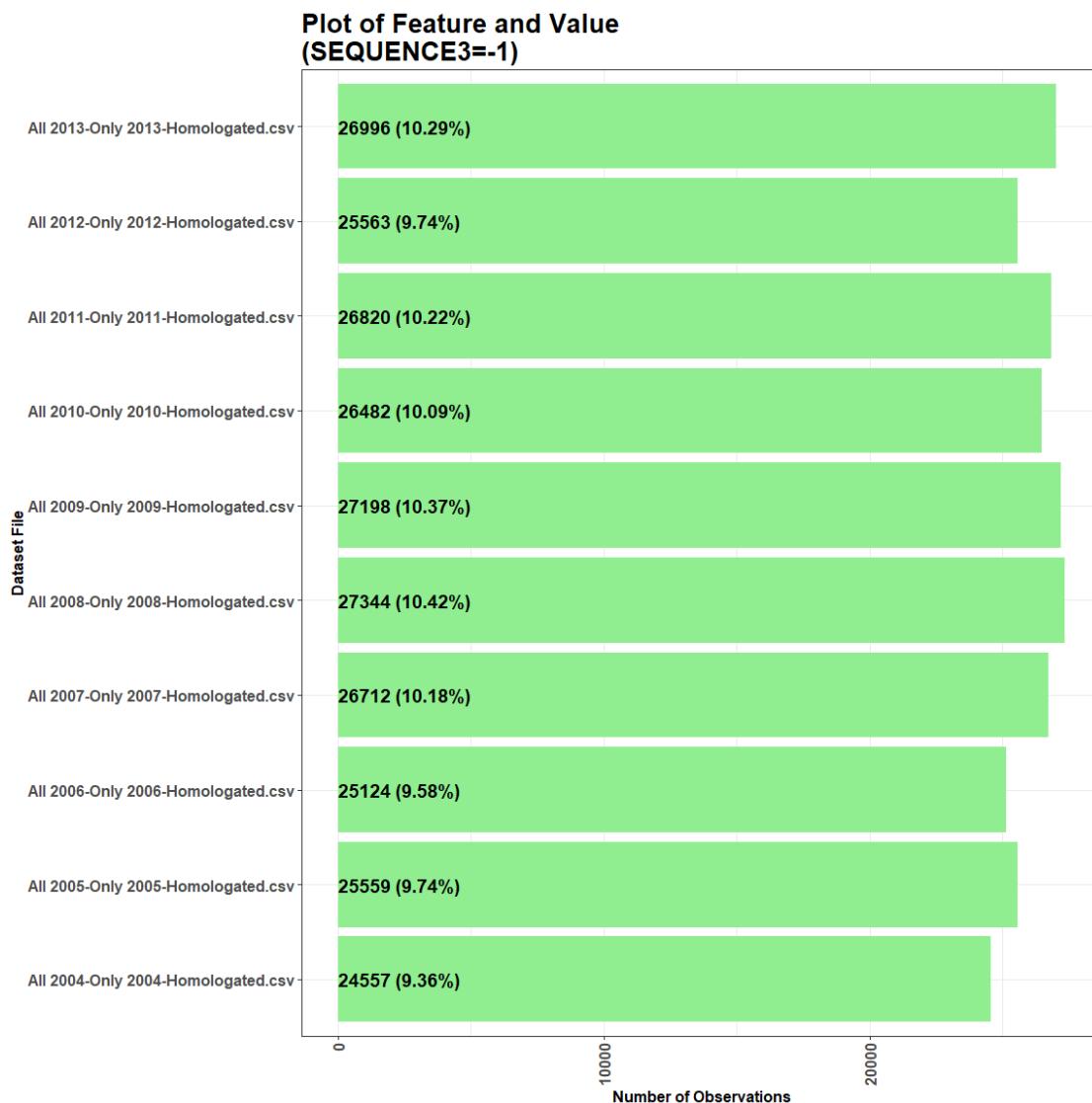


DATASET FILE	COUNTER OF (SEQUENCE3=00 - Unknown)	Percentage
All 2005-Only 2005-Homologated.csv	1	50
All 2007-Only 2007-Homologated.csv	1	50

21.3 SEQUENCE3 = “-1”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (SEQUENCE3=-1)  
##  
## Summary per Data File:
```

```
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 24557 25559
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 25124 26712
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 27344 27198
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 26482 26820
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 25563 26996
```

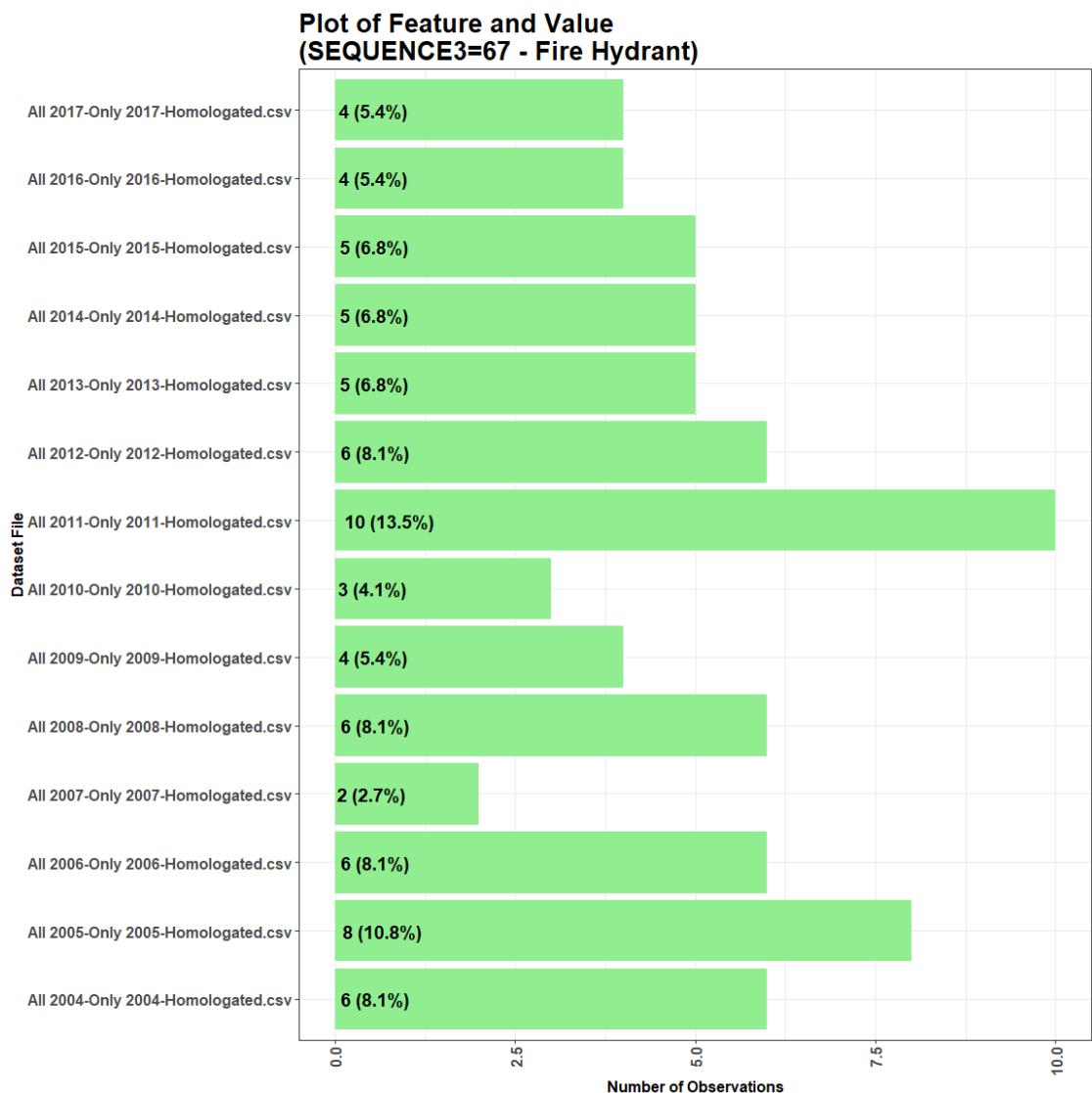


DATASET FILE	COUNTER OF (SEQUENCE3=-1)	Percentage
All 2004-Only 2004-Homologated.csv	24557	9.360
All 2005-Only 2005-Homologated.csv	25559	9.742

All 2006-Only 2006-Homologated.csv	25124	9.576
All 2007-Only 2007-Homologated.csv	26712	10.182
All 2008-Only 2008-Homologated.csv	27344	10.422
All 2009-Only 2009-Homologated.csv	27198	10.367
All 2010-Only 2010-Homologated.csv	26482	10.094
All 2011-Only 2011-Homologated.csv	26820	10.223
All 2012-Only 2012-Homologated.csv	25563	9.744
All 2013-Only 2013-Homologated.csv	26996	10.290

21.4 SEQUENCE3 = “67 - Fire Hydrant”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (SEQUENCE3=67 - Fire Hydrant)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 6 8  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 6 2  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 6 4  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 3 10  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 6 5  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 5 5  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 4 4
```



DATASET FILE	COUNTER OF (SEQUENCE3=67 - Fire Hydrant)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	6	8.108	
All 2005-Only 2005-Homologated.csv	8	10.811	
All 2006-Only 2006-Homologated.csv	6	8.108	
All 2007-Only 2007-Homologated.csv	2	2.703	
All 2008-Only 2008-Homologated.csv	6	8.108	

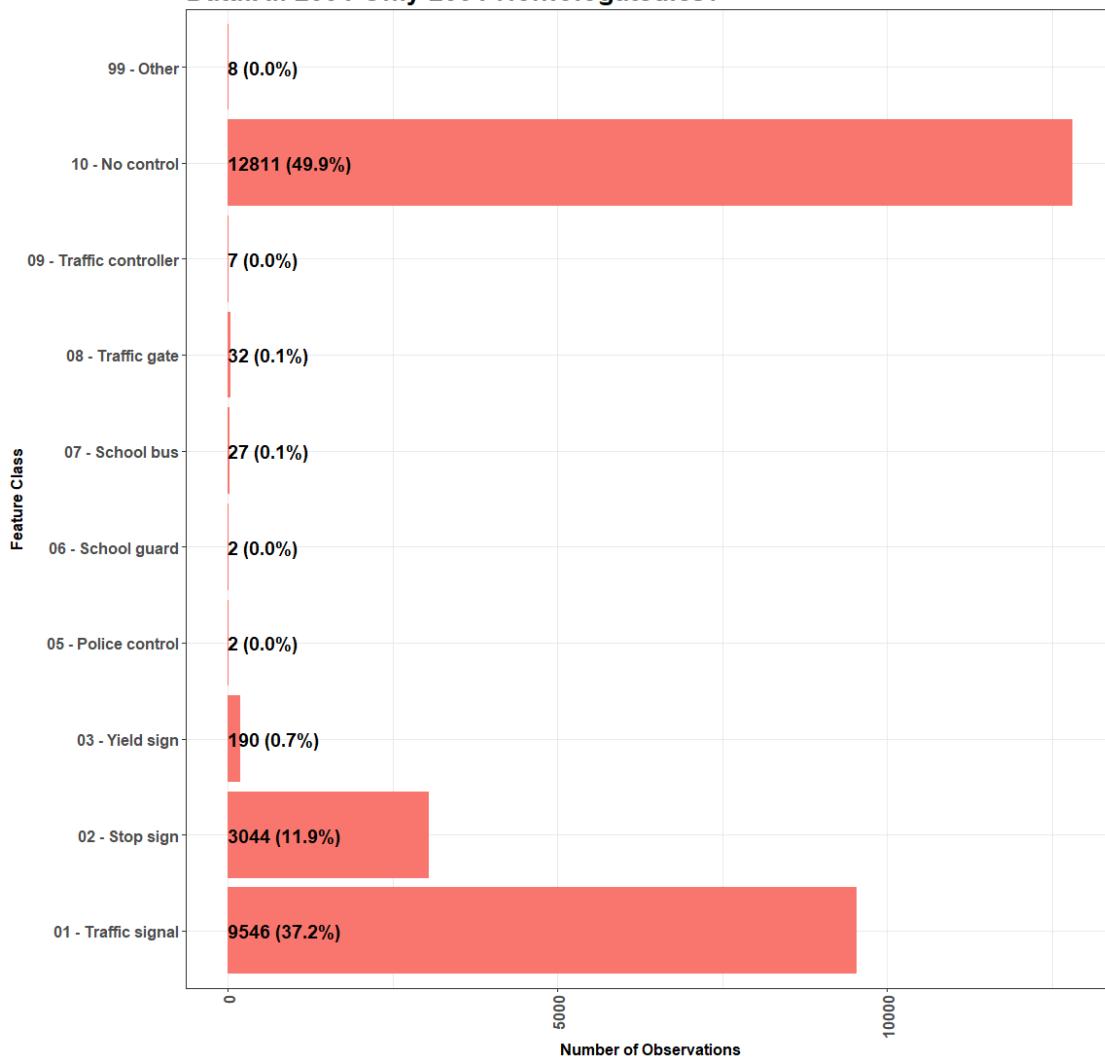
All 2009-Only 2009-Homologated.csv	4	5.405
All 2010-Only 2010-Homologated.csv	3	4.054
All 2011-Only 2011-Homologated.csv	10	13.514
All 2012-Only 2012-Homologated.csv	6	8.108
All 2013-Only 2013-Homologated.csv	5	6.757
All 2014-Only 2014-Homologated.csv	5	6.757
All 2015-Only 2015-Homologated.csv	5	6.757
All 2016-Only 2016-Homologated.csv	4	5.405
All 2017-Only 2017-Homologated.csv	4	5.405

22. Traffic Control (TRAFFIC_CONTROL)

```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 10  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Traffic signal 9546 37.1888  
## 02 - Stop sign 3044 11.8587  
## 03 - Yield sign 190 0.7402  
## 05 - Police control 2 0.0078  
## 06 - School guard 2 0.0078  
## 07 - School bus 27 0.1052  
## 08 - Traffic gate 32 0.1247  
## 09 - Traffic controller 7 0.0273
```

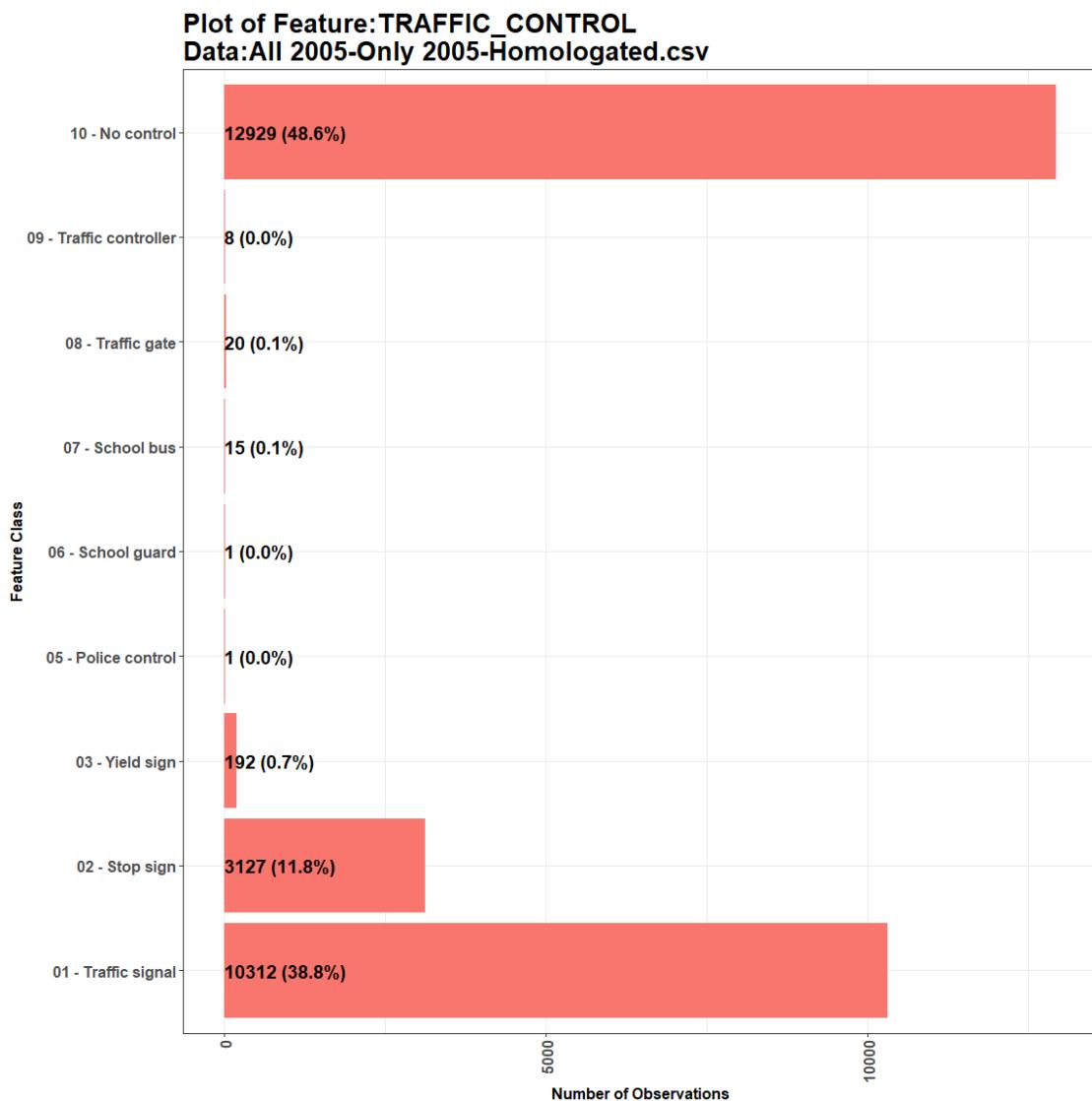
```
## 10 - No control      12811    49.9084
## 99 - Other          8        0.0312
```

Plot of Feature:TRAFFIC_CONTROL
Data:All 2004-Only 2004-Homologated.csv



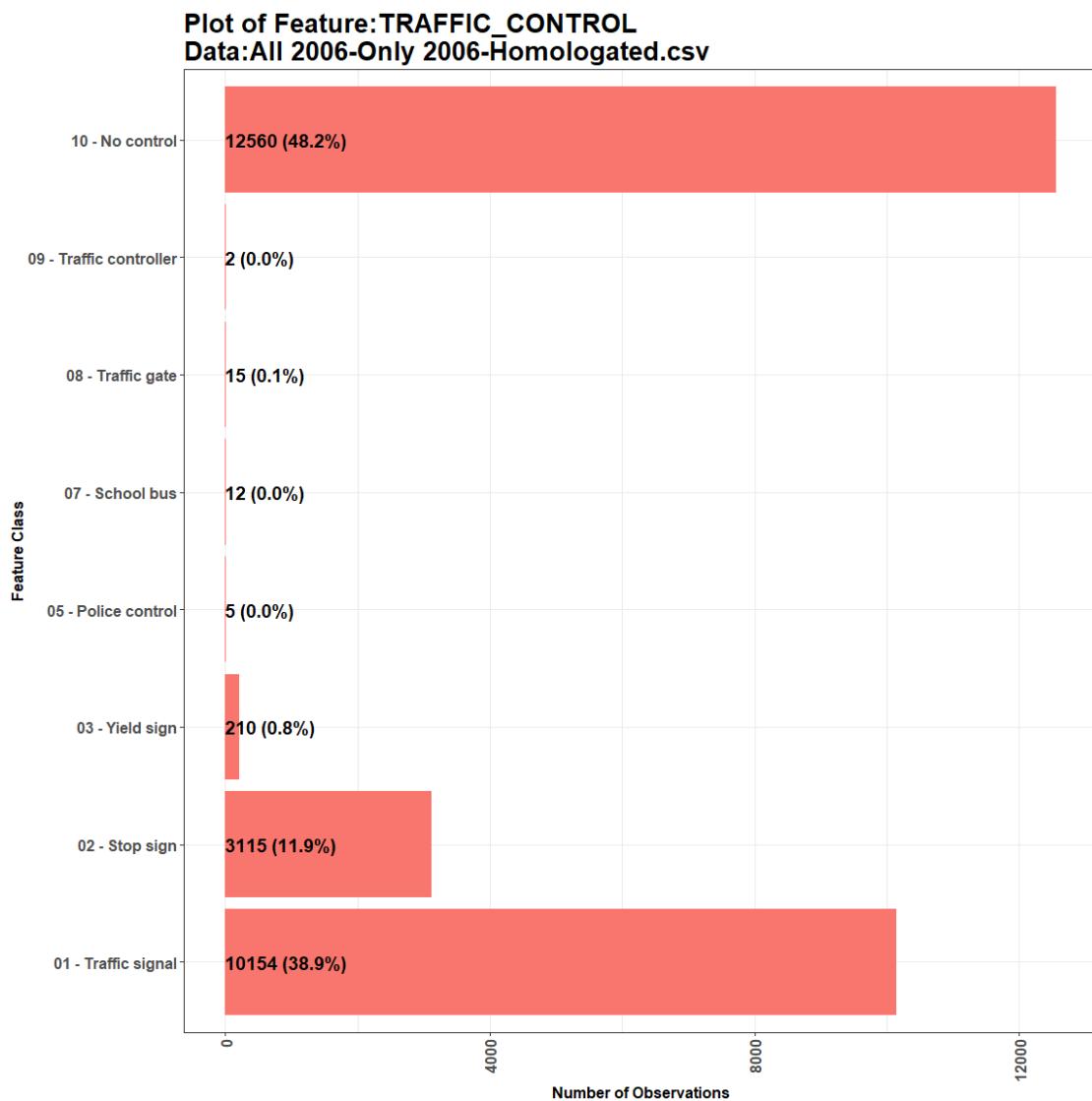
```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL
```

```
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Traffic signal 10312 38.7596  
## 02 - Stop sign 3127 11.7534  
## 03 - Yield sign 192 0.7217  
## 05 - Police control 1 0.0038  
## 06 - School guard 1 0.0038  
## 07 - School bus 15 0.0564  
## 08 - Traffic gate 20 0.0752  
## 09 - Traffic controller 8 0.0301  
## 10 - No control 12929 48.5961
```



```
##  
## -----
```

```
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 8
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL
##
## Feature Value          Counter   Percentage
## -----                  -----    -----
## 01 - Traffic signal     10154    38.9445
## 02 - Stop sign          3115     11.9472
## 03 - Yield sign         210      0.8054
## 05 - Police control     5        0.0192
## 07 - School bus          12      0.0460
## 08 - Traffic gate        15      0.0575
## 09 - Traffic controller   2       0.0077
## 10 - No control          12560    48.1724
```



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL  

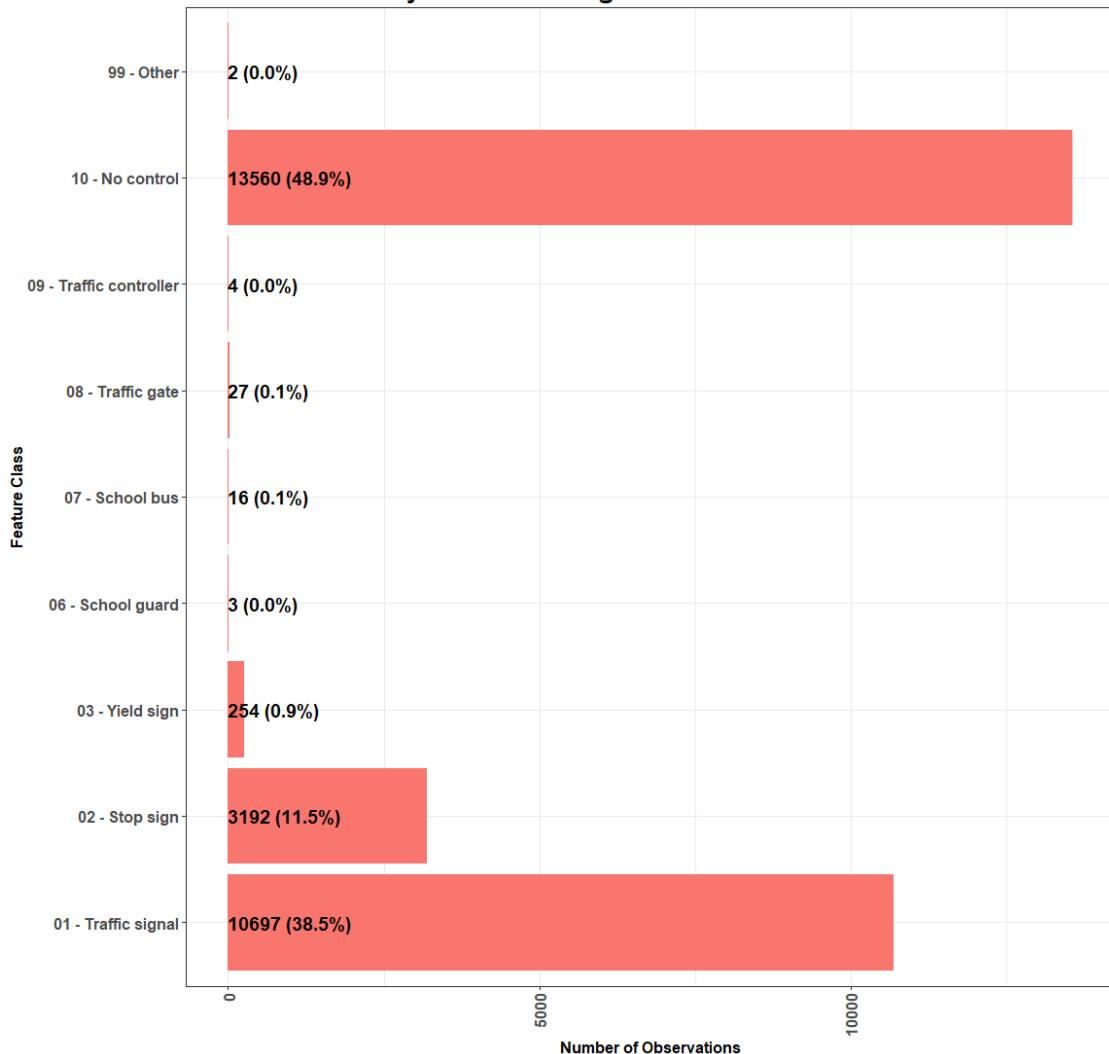
##  

## Feature Value Counter Percentage  

## -----
```

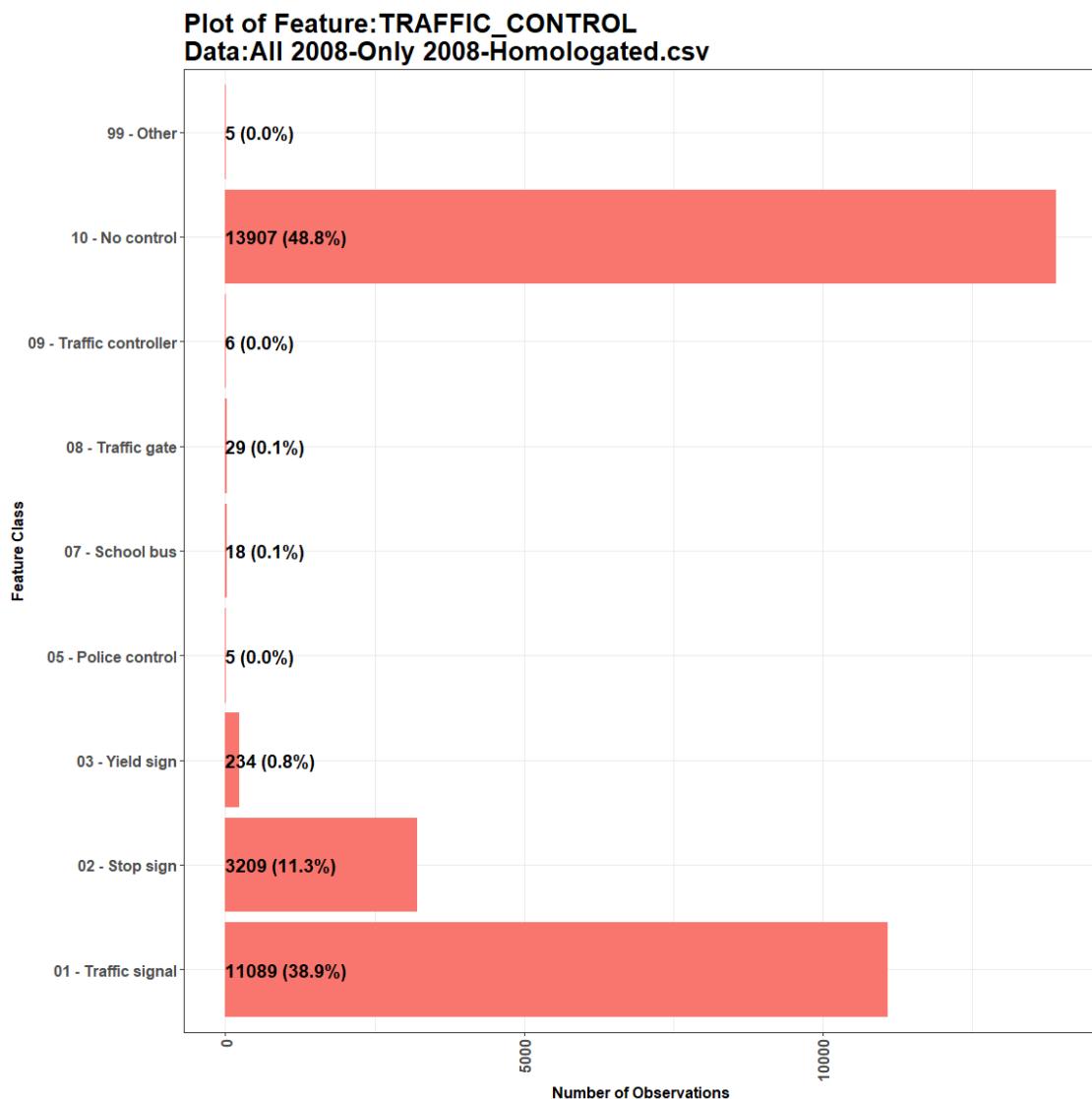
## 01 - Traffic signal	10697	38.5408
## 02 - Stop sign	3192	11.5006
## 03 - Yield sign	254	0.9152
## 06 - School guard	3	0.0108
## 07 - School bus	16	0.0576
## 08 - Traffic gate	27	0.0973
## 09 - Traffic controller	4	0.0144
## 10 - No control	13560	48.8561
## 99 - Other	2	0.0072

Plot of Feature:TRAFFIC_CONTROL
Data:All 2007-Only 2007-Homologated.csv



```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2008-Only 2008-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 9
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL
##
## Feature Value          Counter    Percentage
## ----- - -----
## 01 - Traffic signal      11089     38.9060
## 02 - Stop sign            3209      11.2589
## 03 - Yield sign           234       0.8210
## 05 - Police control        5        0.0175
## 07 - School bus             18       0.0632
## 08 - Traffic gate           29       0.1017
## 09 - Traffic controller       6       0.0211
## 10 - No control            13907     48.7931
## 99 - Other                  5       0.0175
```



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL  

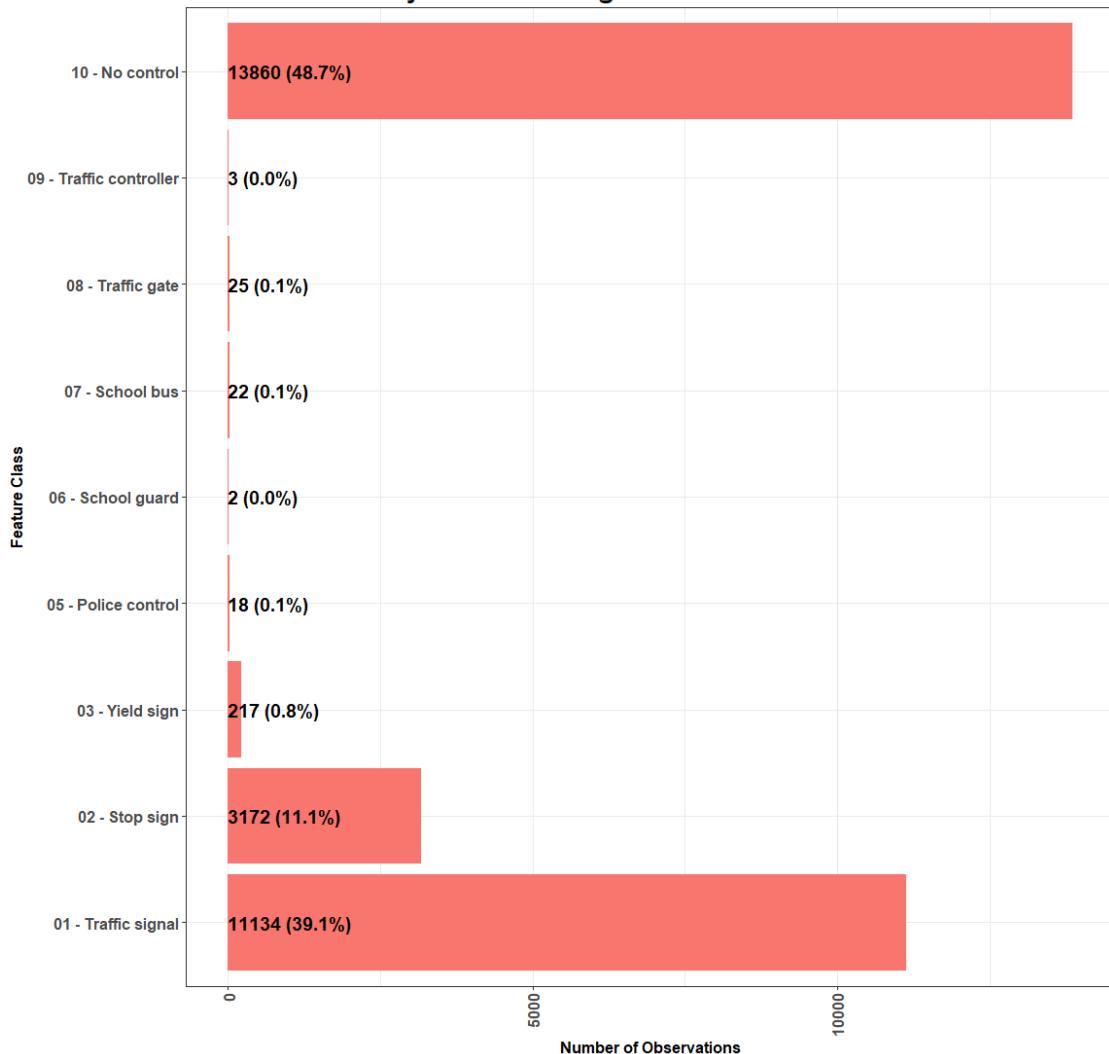
##  

## Feature Value Counter Percentage  

## -----
```

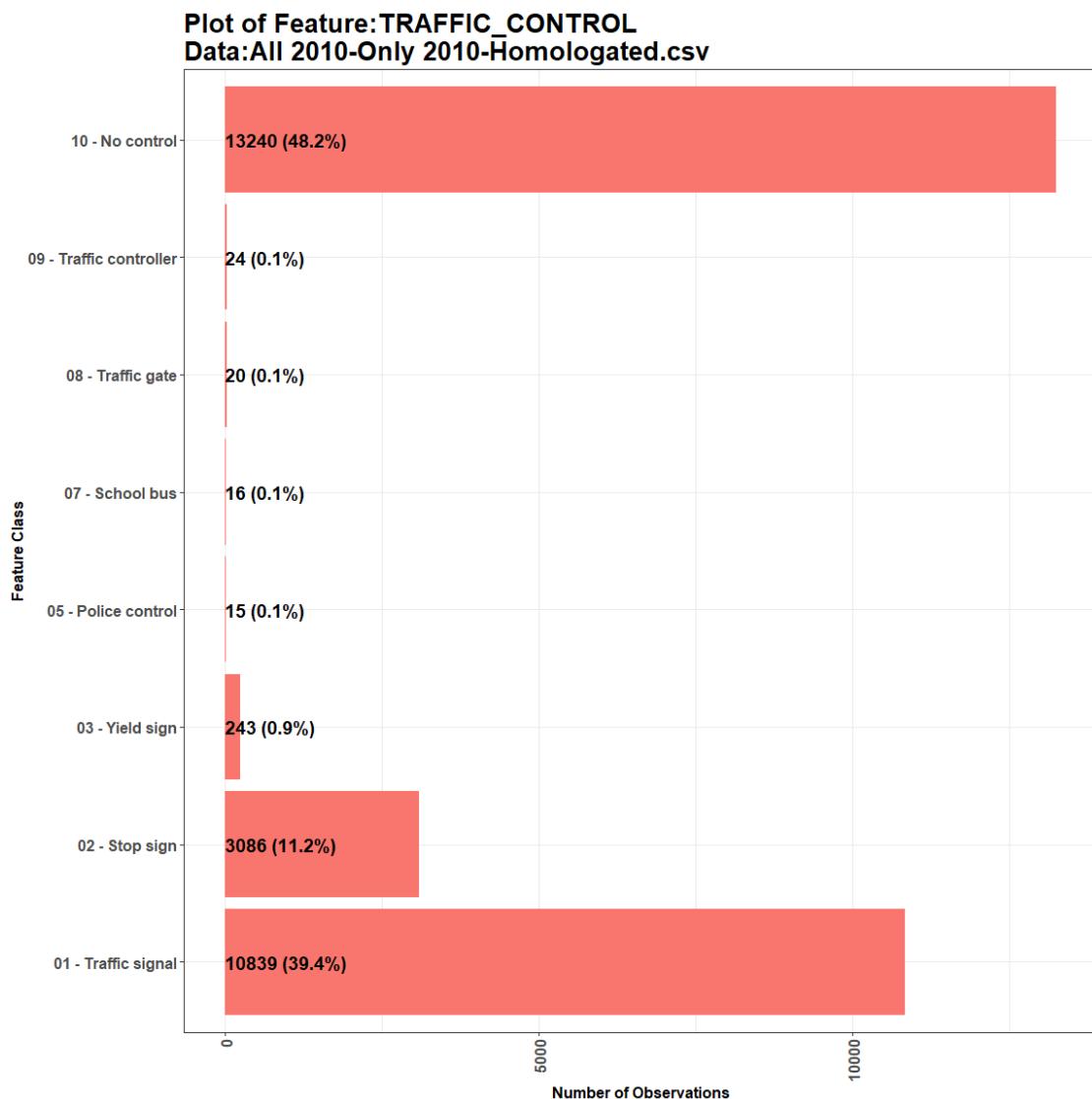
## 01 - Traffic signal	11134	39.1312
## 02 - Stop sign	3172	11.1482
## 03 - Yield sign	217	0.7627
## 05 - Police control	18	0.0633
## 06 - School guard	2	0.0070
## 07 - School bus	22	0.0773
## 08 - Traffic gate	25	0.0879
## 09 - Traffic controller	3	0.0105
## 10 - No control	13860	48.7119

Plot of Feature:TRAFFIC_CONTROL
Data:All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2010-Only 2010-Homologated.csv...
##
```

```
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 8
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL
##
## Feature Value          Counter    Percentage
## ----- - -----
## 01 - Traffic signal      10839     39.4389
## 02 - Stop sign            3086      11.2288
## 03 - Yield sign           243       0.8842
## 05 - Police control        15       0.0546
## 07 - School bus            16       0.0582
## 08 - Traffic gate           20       0.0728
## 09 - Traffic controller      24       0.0873
## 10 - No control            13240     48.1752
```



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 8  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL  

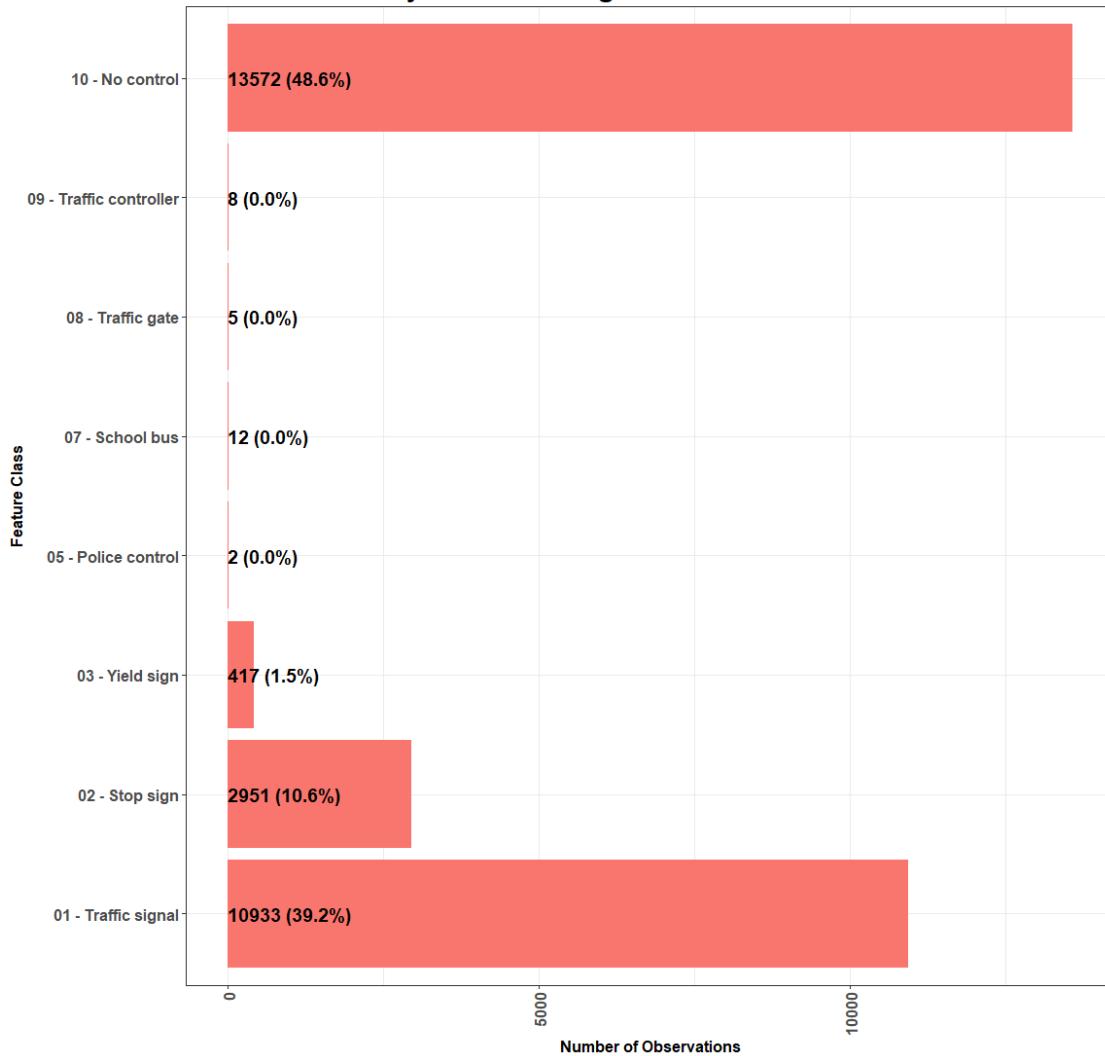
##  

## Feature Value Counter Percentage  

## -----
```

## 01 - Traffic signal	10933	39.1864
## 02 - Stop sign	2951	10.5771
## 03 - Yield sign	417	1.4946
## 05 - Police control	2	0.0072
## 07 - School bus	12	0.0430
## 08 - Traffic gate	5	0.0179
## 09 - Traffic controller	8	0.0287
## 10 - No control	13572	48.6452

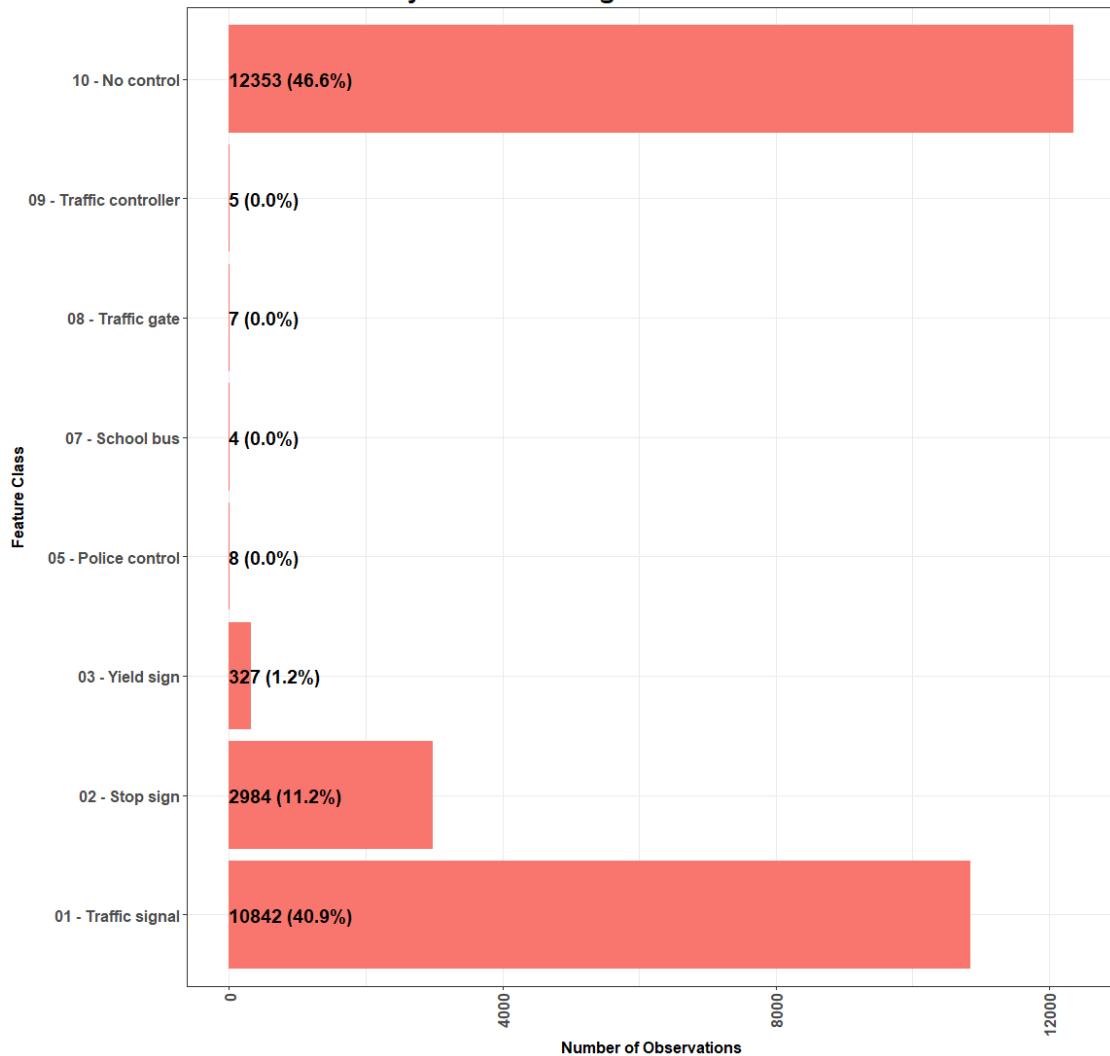
Plot of Feature:TRAFFIC_CONTROL
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
```

```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL  
##  
## Feature Value Counter Percentage  
## -----  
## 01 - Traffic signal 10842 40.8669  
## 02 - Stop sign 2984 11.2476  
## 03 - Yield sign 327 1.2326  
## 05 - Police control 8 0.0302  
## 07 - School bus 4 0.0151  
## 08 - Traffic gate 7 0.0264  
## 09 - Traffic controller 5 0.0188  
## 10 - No control 12353 46.5624
```

Plot of Feature:TRAFFIC_CONTROL
Data:All 2012-Only 2012-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 7  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL  

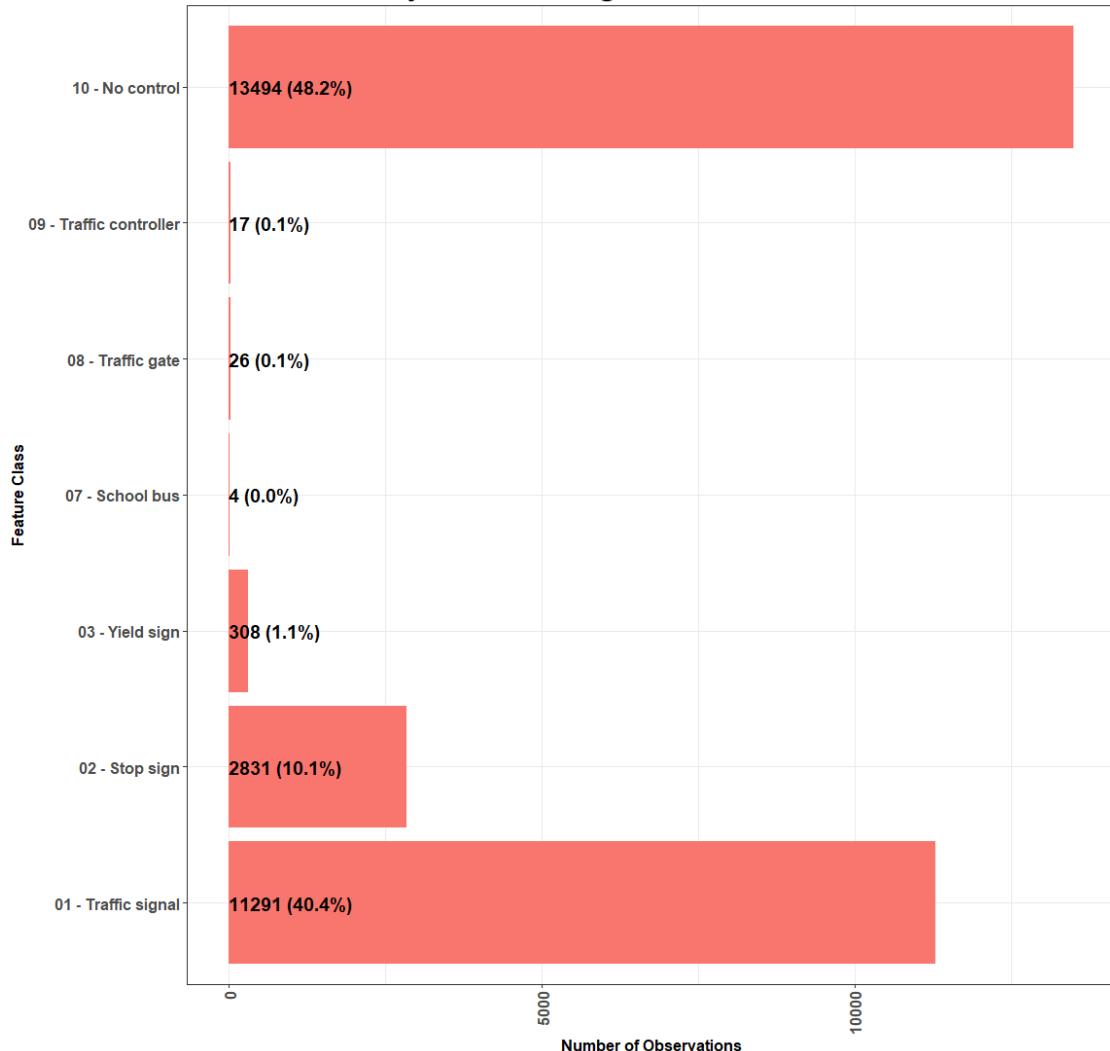
##  

## Feature Value Counter Percentage  

## -----
```

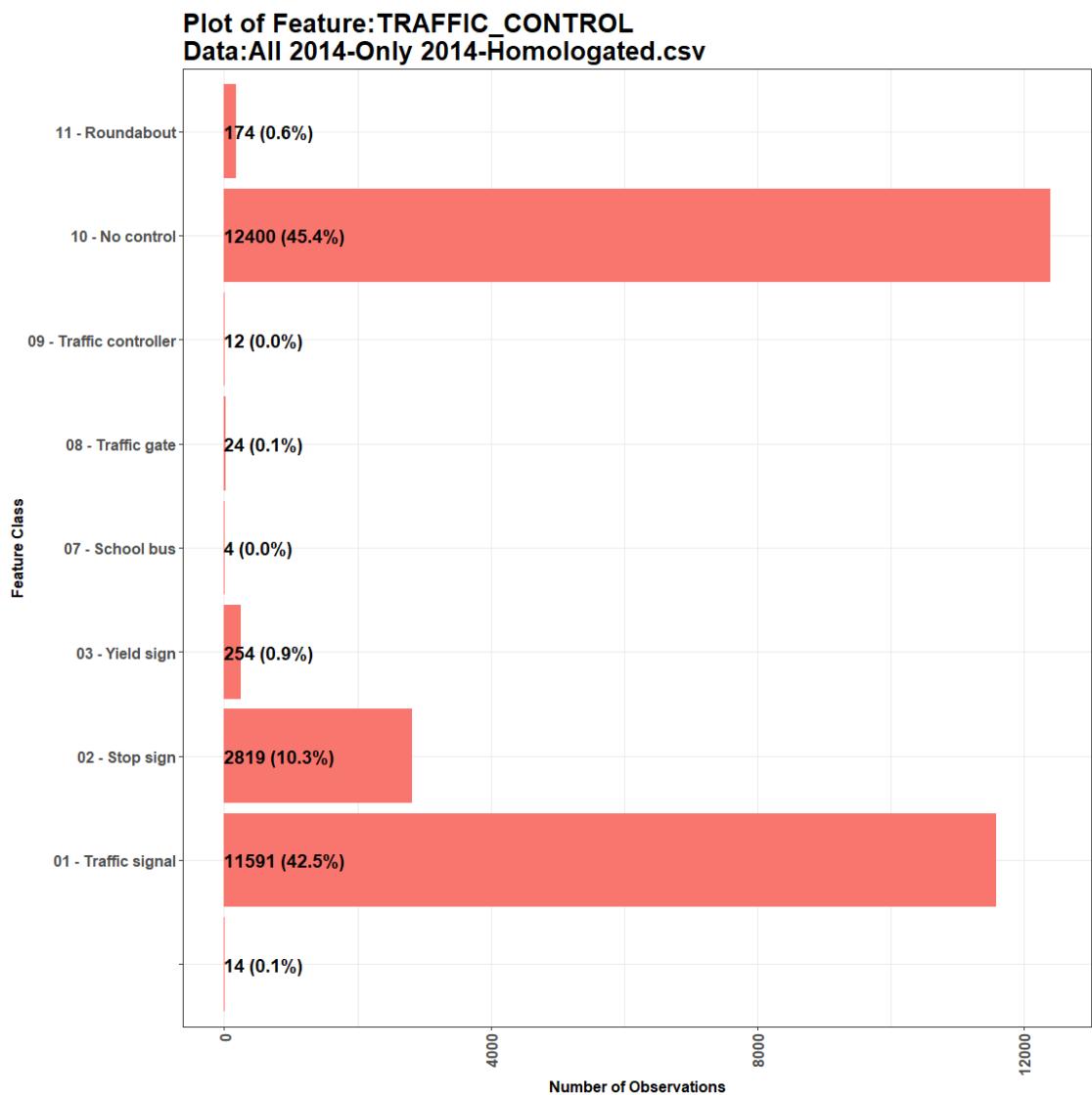
## 01 - Traffic signal	11291	40.3668
## 02 - Stop sign	2831	10.1212
## 03 - Yield sign	308	1.1011
## 07 - School bus	4	0.0143
## 08 - Traffic gate	26	0.0930
## 09 - Traffic controller	17	0.0608
## 10 - No control	13494	48.2428

Plot of Feature:TRAFFIC_CONTROL
Data:All 2013-Only 2013-Homologated.csv



```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:14
##
```

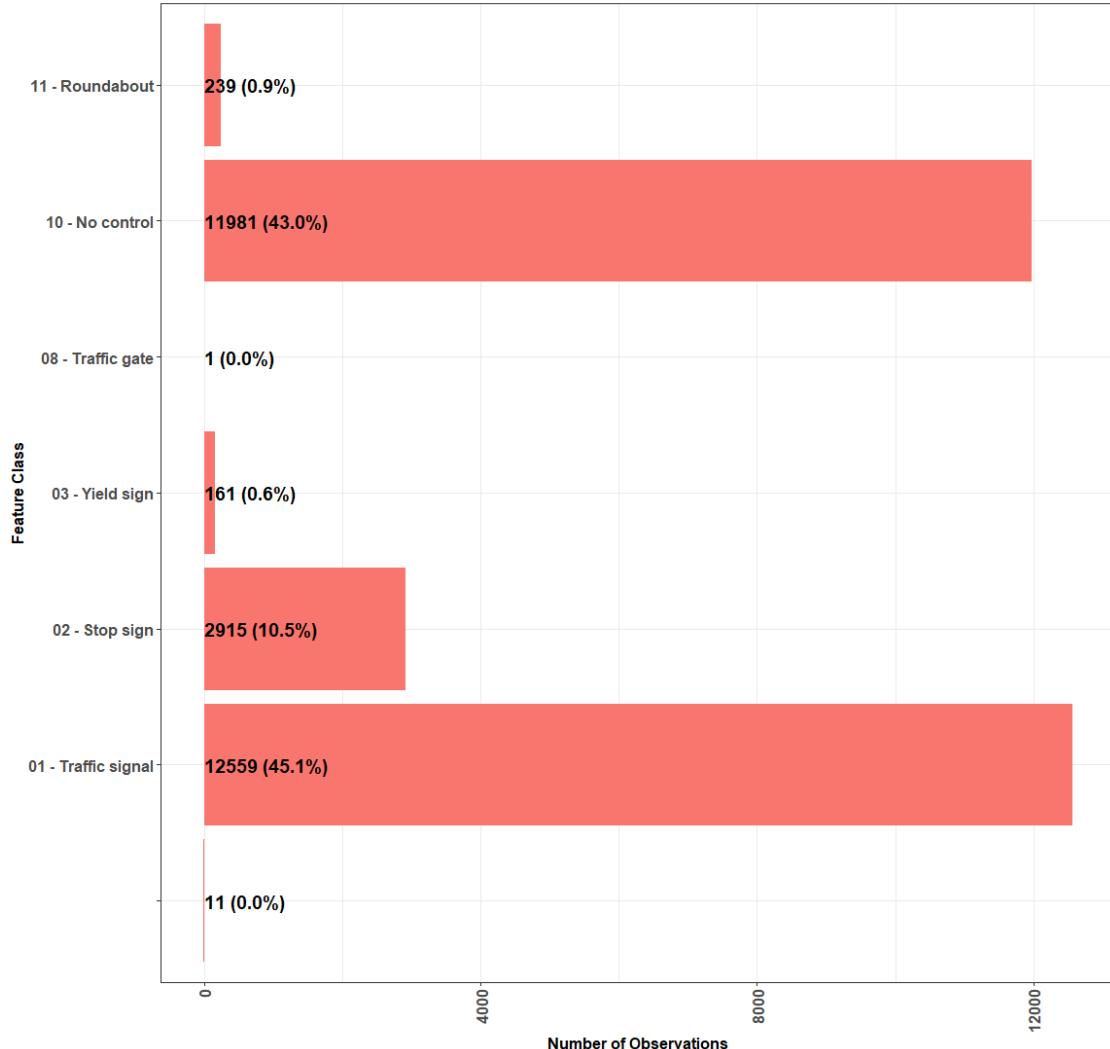
```
## Summary as Factor Feature:  
##  
## Number of Features: 9  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL  
##  
## Feature Value Counter Percentage  
## ----- -----  
## 14 0.0513  
## 01 - Traffic signal 11591 42.4703  
## 02 - Stop sign 2819 10.3290  
## 03 - Yield sign 254 0.9307  
## 07 - School bus 4 0.0147  
## 08 - Traffic gate 24 0.0879  
## 09 - Traffic controller 12 0.0440  
## 10 - No control 12400 45.4346  
## 11 - Roundabout 174 0.6375
```



```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:11
##
## Summary as Factor Feature:
##
## Number of Features: 7
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL
##
## Feature Value          Counter    Percentage
## -----
```

##	11	0.0395
## 01 - Traffic signal	12559	45.0676
## 02 - Stop sign	2915	10.4604
## 03 - Yield sign	161	0.5777
## 08 - Traffic gate	1	0.0036
## 10 - No control	11981	42.9935
## 11 - Roundabout	239	0.8576

Plot of Feature:TRAFFIC_CONTROL
Data:All 2015-Only 2015-Homologated.csv



```

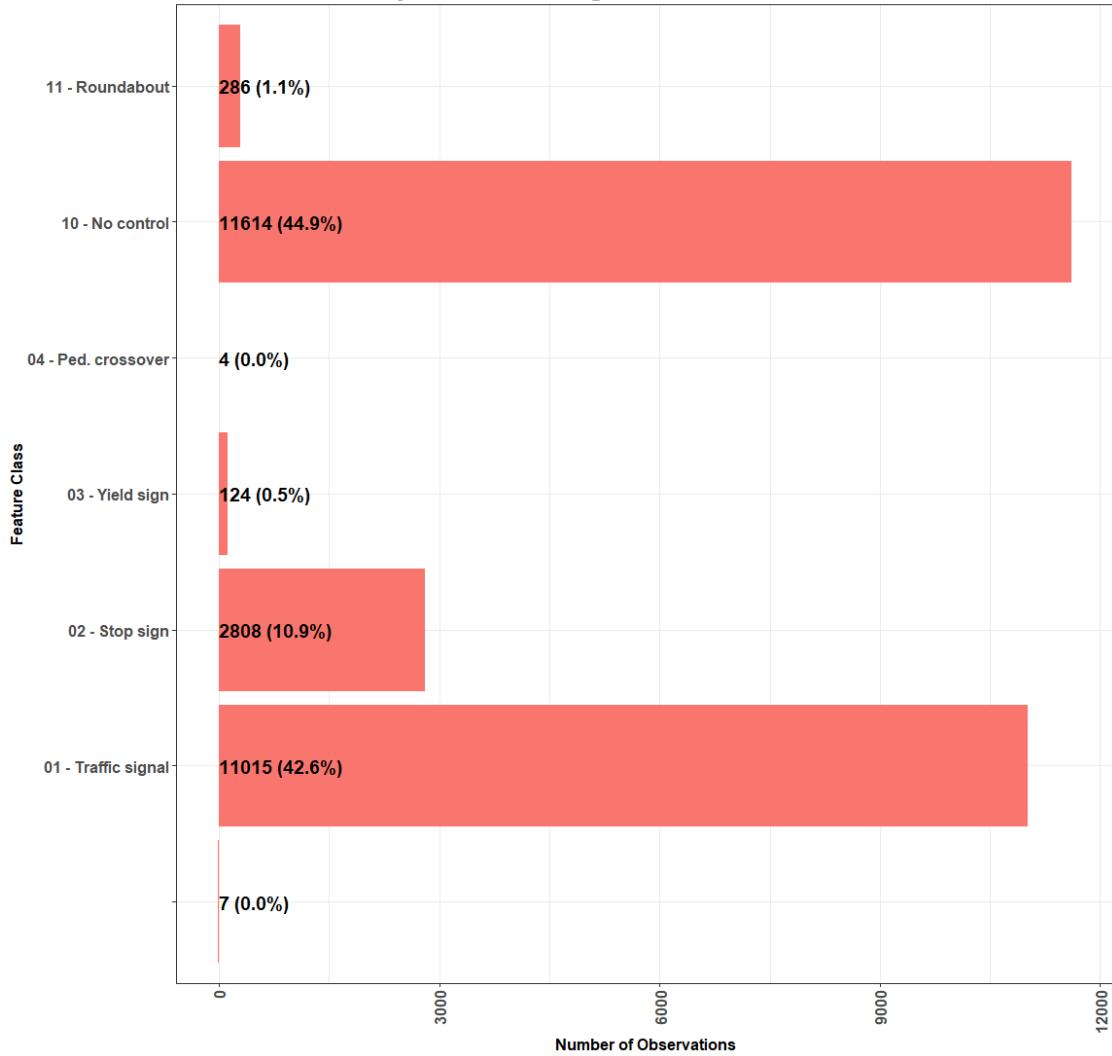
## 
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL
## DATA:All 2016-Only 2016-Homologated.csv...
## 
## Number of Blank Values:7
## 
```

```

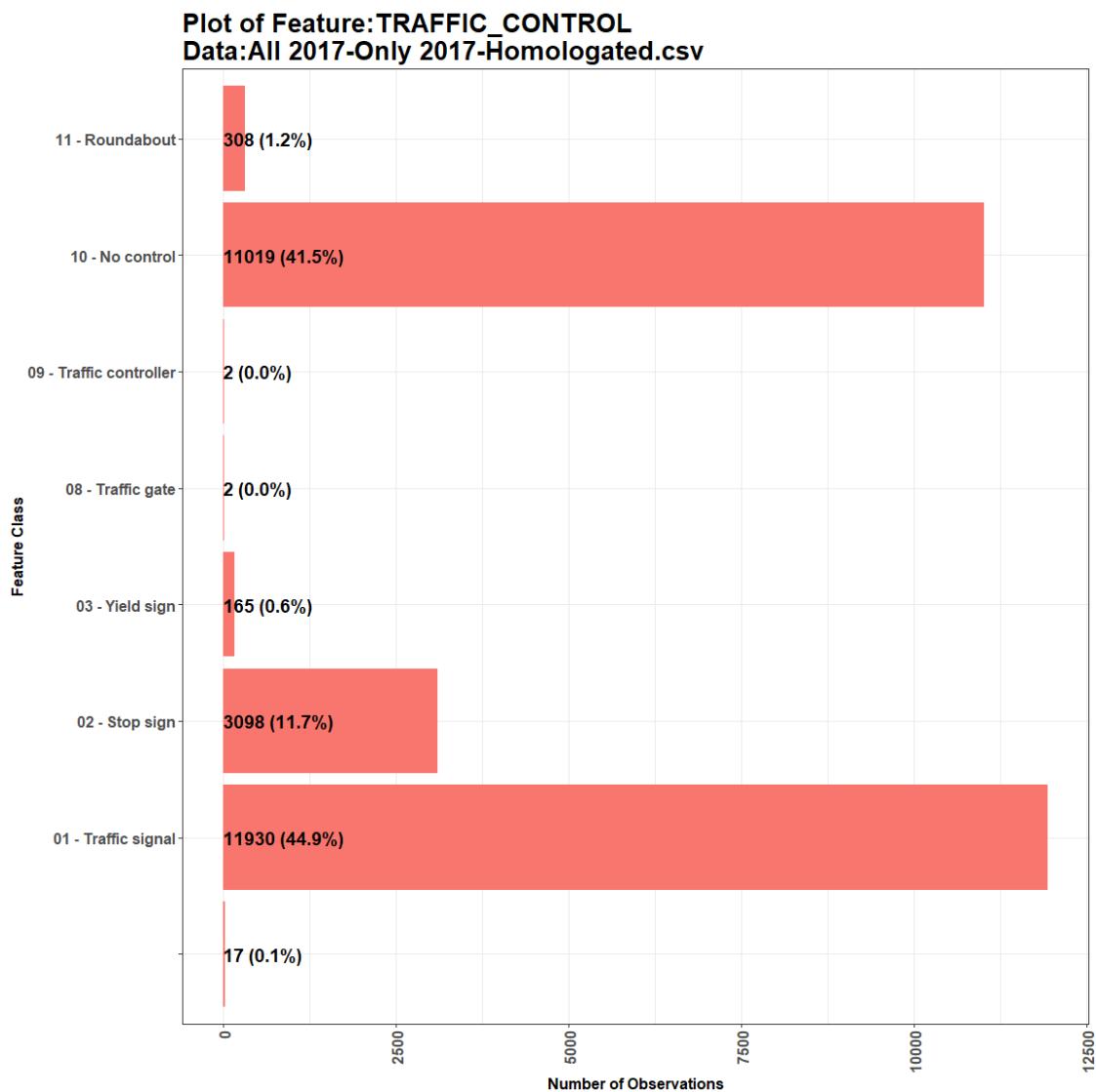
## Summary as Factor Feature:
## 
## Number of Features: 7
## 
## TOP 100 FEATURES OF TRAFFIC_CONTROL
## 
## Feature Value          Counter   Percentage
## -----                  -----      -----
## 01 - Traffic signal    11015     42.5980
## 02 - Stop sign          2808      10.8593
## 03 - Yield sign         124       0.4795
## 04 - Ped. crossover     4         0.0155
## 10 - No control         11614     44.9145
## 11 - Roundabout          286      1.1060

```

Plot of Feature:TRAFFIC_CONTROL
Data:All 2016-Only 2016-Homologated.csv

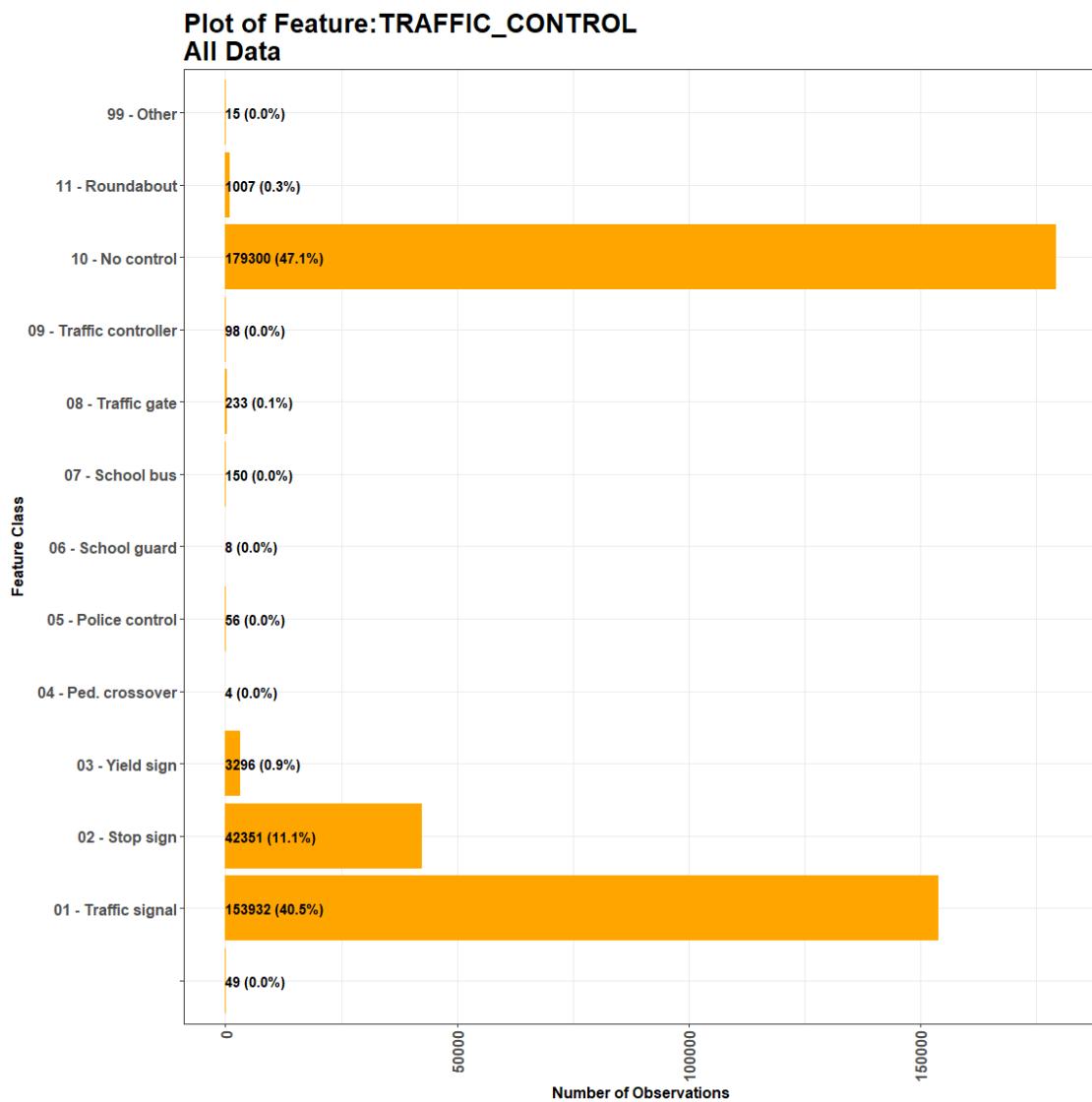


```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL  
## DATA:All 2017-Only 2017-Homologated.csv...  
##  
## Number of Blank Values:17  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 8  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL  
##  
## Feature Value Counter Percentage  
## -----  
## 17 0.0641  
## 01 - Traffic signal 11930 44.9493  
## 02 - Stop sign 3098 11.6725  
## 03 - Yield sign 165 0.6217  
## 08 - Traffic gate 2 0.0075  
## 09 - Traffic controller 2 0.0075  
## 10 - No control 11019 41.5169  
## 11 - Roundabout 308 1.1605
```



```
##
## =====
## FINAL INFO CHECKING FEATURE:TRAFFIC_CONTROL
## ALL DATA...
## =====
## Number of Blank Values:49
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                                     25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                                     26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                                     28502          28453
```

```
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 27483 27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 26530 27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 27292 27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 25858 26541
##
##
## Summary as Factor Feature:
## Number of Features: 13
```

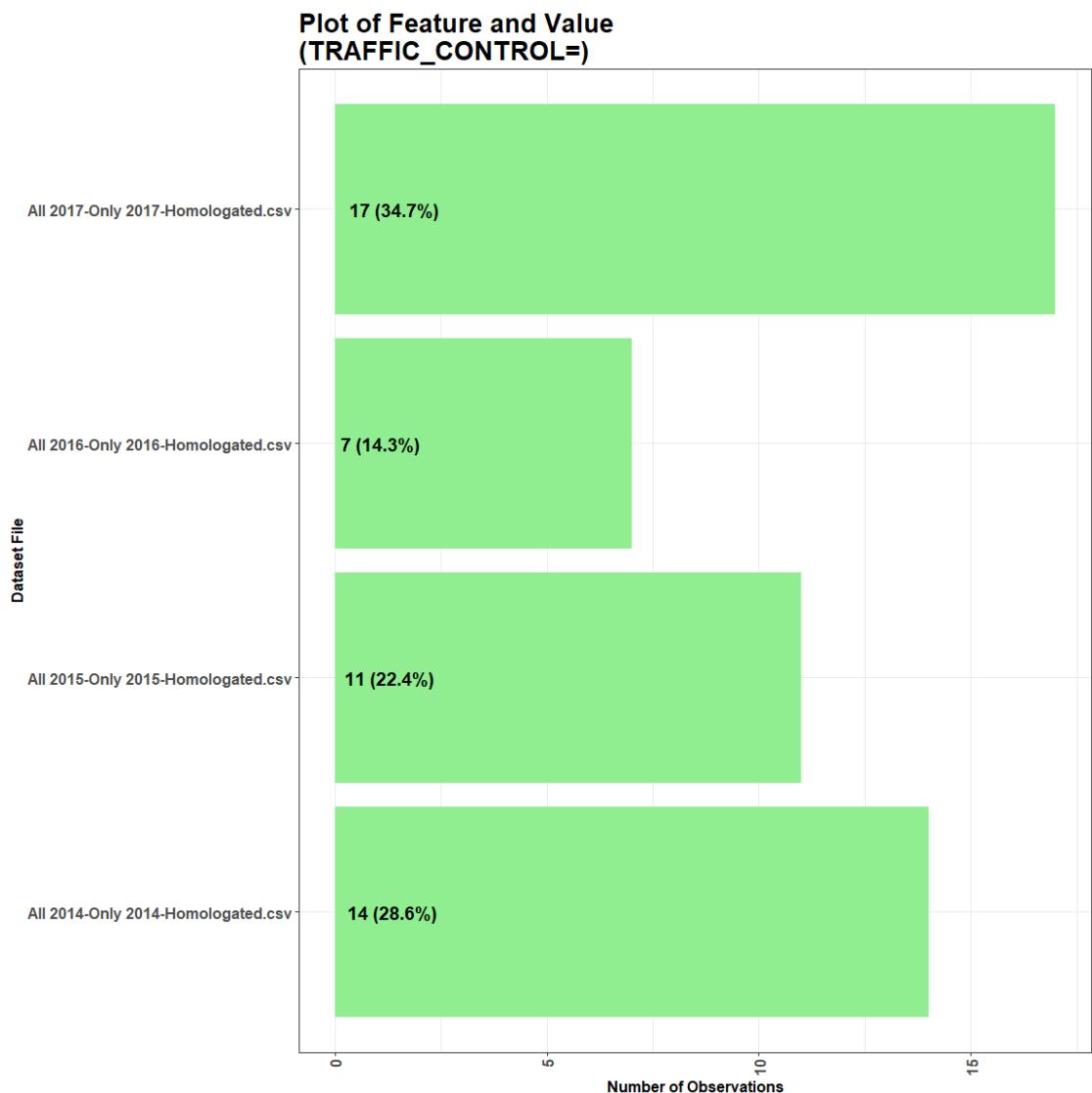


```
## [1] "TOP 100 FEATURES COUNTERS OF:TRAFFIC_CONTROL"
```

Feature Value	Counter	Percentage
	49	0.0129
01 - Traffic signal	153932	40.4553
02 - Stop sign	42351	11.1304
03 - Yield sign	3296	0.8662
04 - Ped. crossover	4	0.0011
05 - Police control	56	0.0147
06 - School guard	8	0.0021
07 - School bus	150	0.0394
08 - Traffic gate	233	0.0612
09 - Traffic controller	98	0.0258
10 - No control	179300	47.1223
11 - Roundabout	1007	0.2647
99 - Other	15	0.0039

22.1 TRAFFIC_CONTROL = "" (Blank)

```
##  
## ======  
## CHECKING FEATURE AND VALUE (TRAFFIC_CONTROL=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 14 11  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 7 17
```

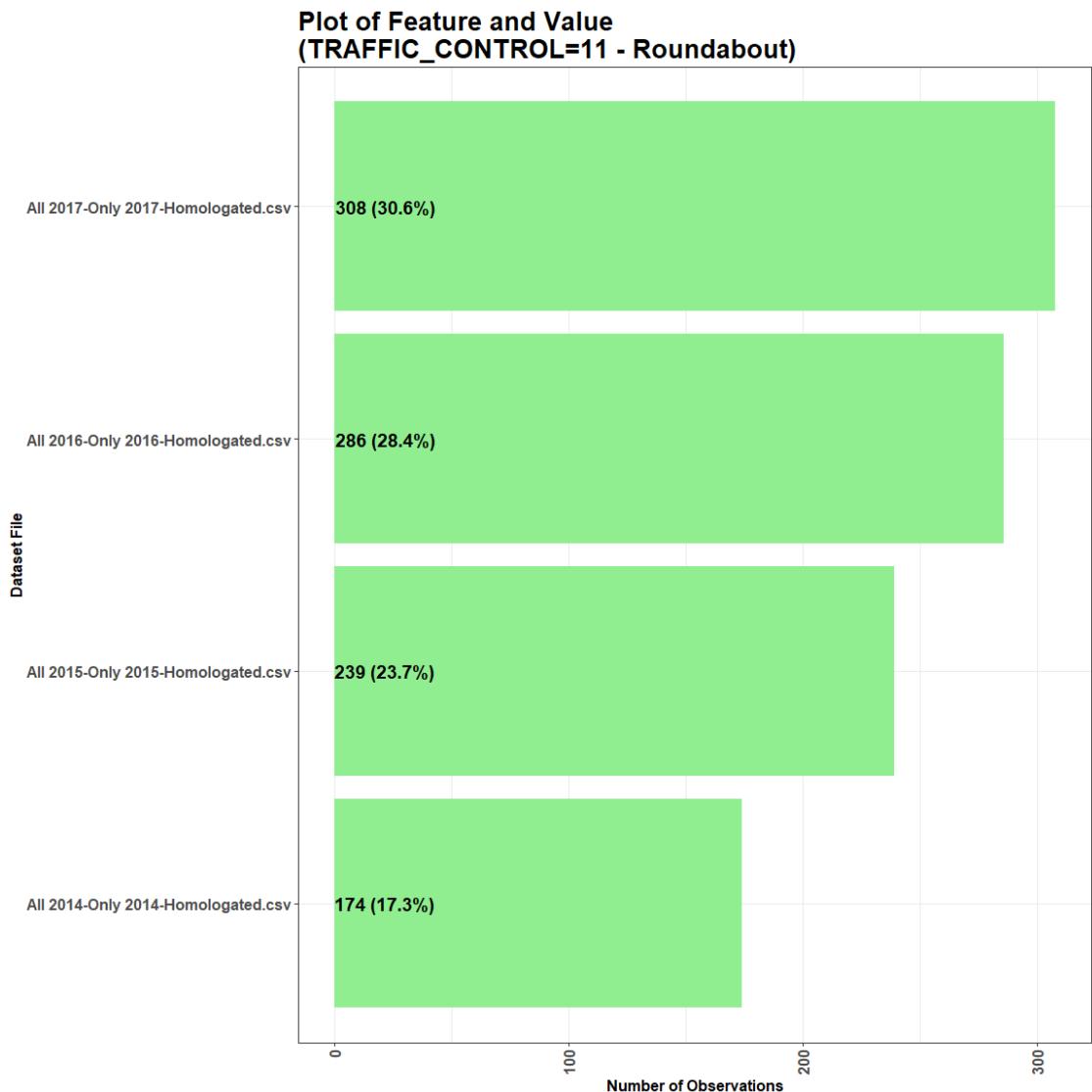


DATASET FILE	COUNTER OF (TRAFFIC_CONTROL=)	Percentage
All 2014-Only 2014-Homologated.csv	14	28.57
All 2015-Only 2015-Homologated.csv	11	22.45
All 2016-Only 2016-Homologated.csv	7	14.29
All 2017-Only 2017-Homologated.csv	17	34.69

22.2 TRAFFIC_CONTROL = “11 - Roundabout”

```
##  
## ======  
## CHECKING FEATURE AND VALUE (TRAFFIC_CONTROL=11 - Roundabout)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
```

```
## 174 239
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 286 308
```



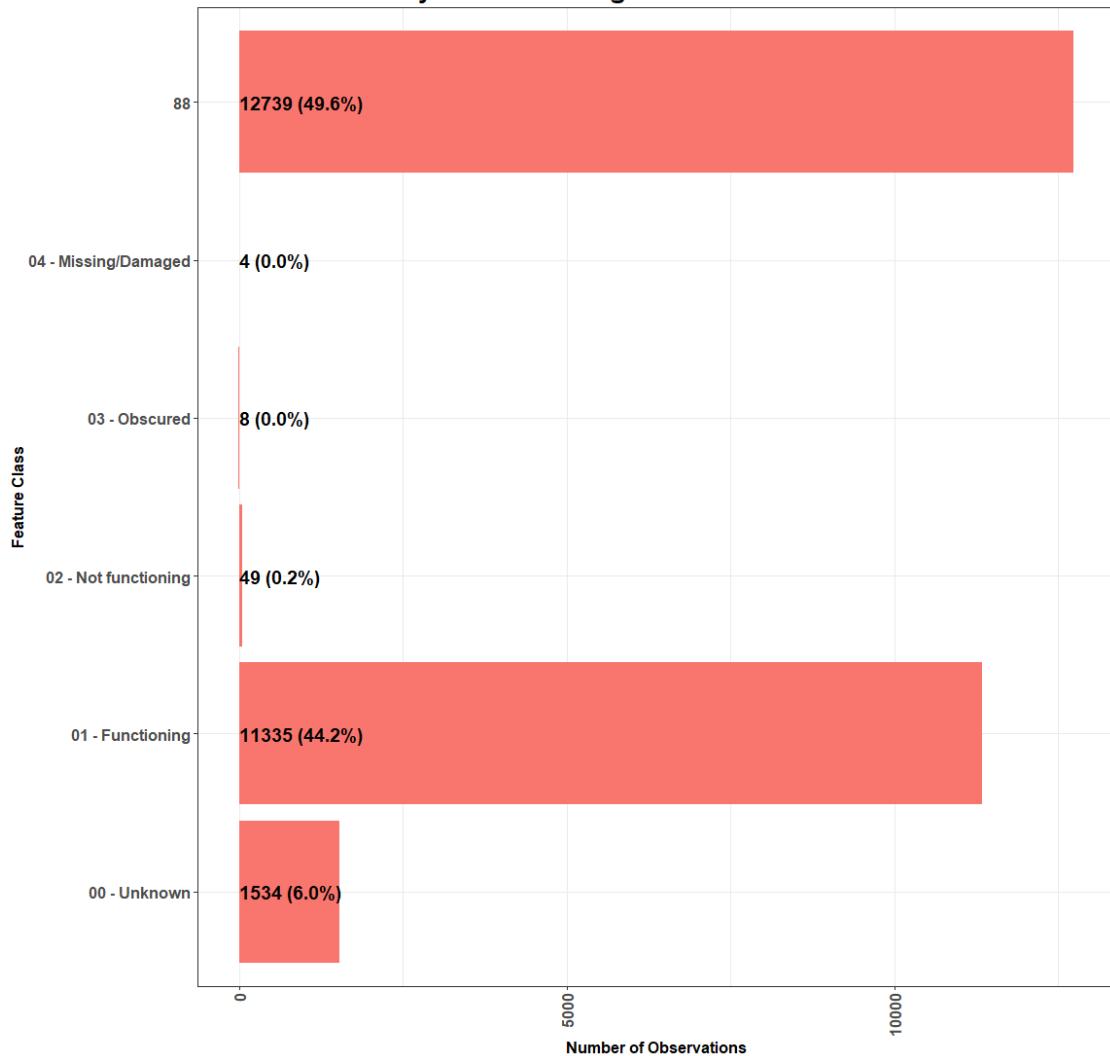
DATASET FILE	COUNTER OF (TRAFFIC_CONTROL=11 - Roundabout)	Percentage
All 2014-Only 2014-Homologated.csv	174	17.28
All 2015-Only 2015-Homologated.csv	239	23.73
All 2016-Only 2016-Homologated.csv	286	28.40
All 2017-Only 2017-	308	30.59

Homologated.csv

23. Traffic Control Condition (TRAFFIC_CONTROL_CONDITION)

```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1534 5.9761  
## 01 - Functioning 11335 44.1583  
## 02 - Not functioning 49 0.1909  
## 03 - Obscured 8 0.0312  
## 04 - Missing/Damaged 4 0.0156  
## 88 12739 49.6280
```

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2004-Only 2004-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  

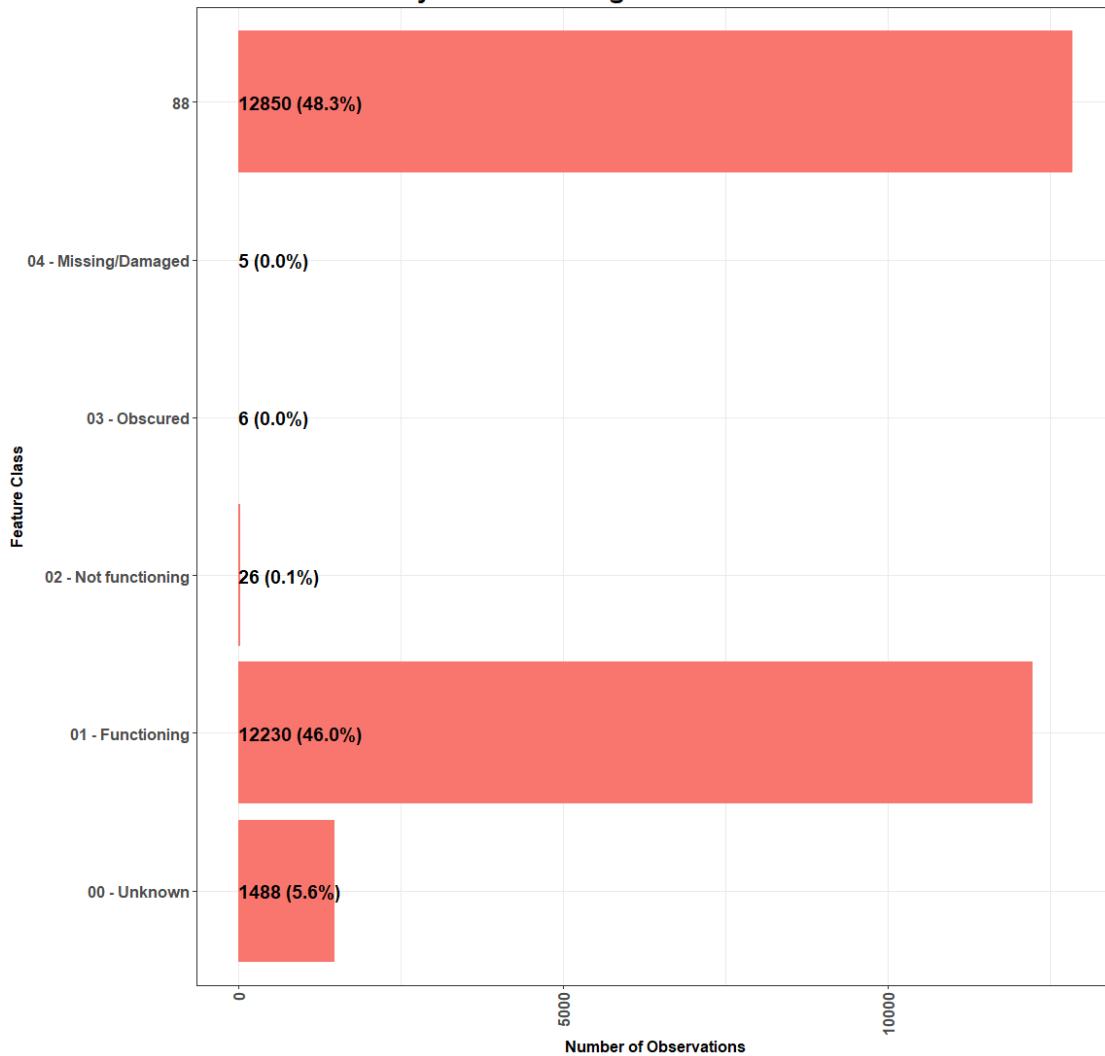
##  

## Feature Value      Counter   Percentage  

## -----
```

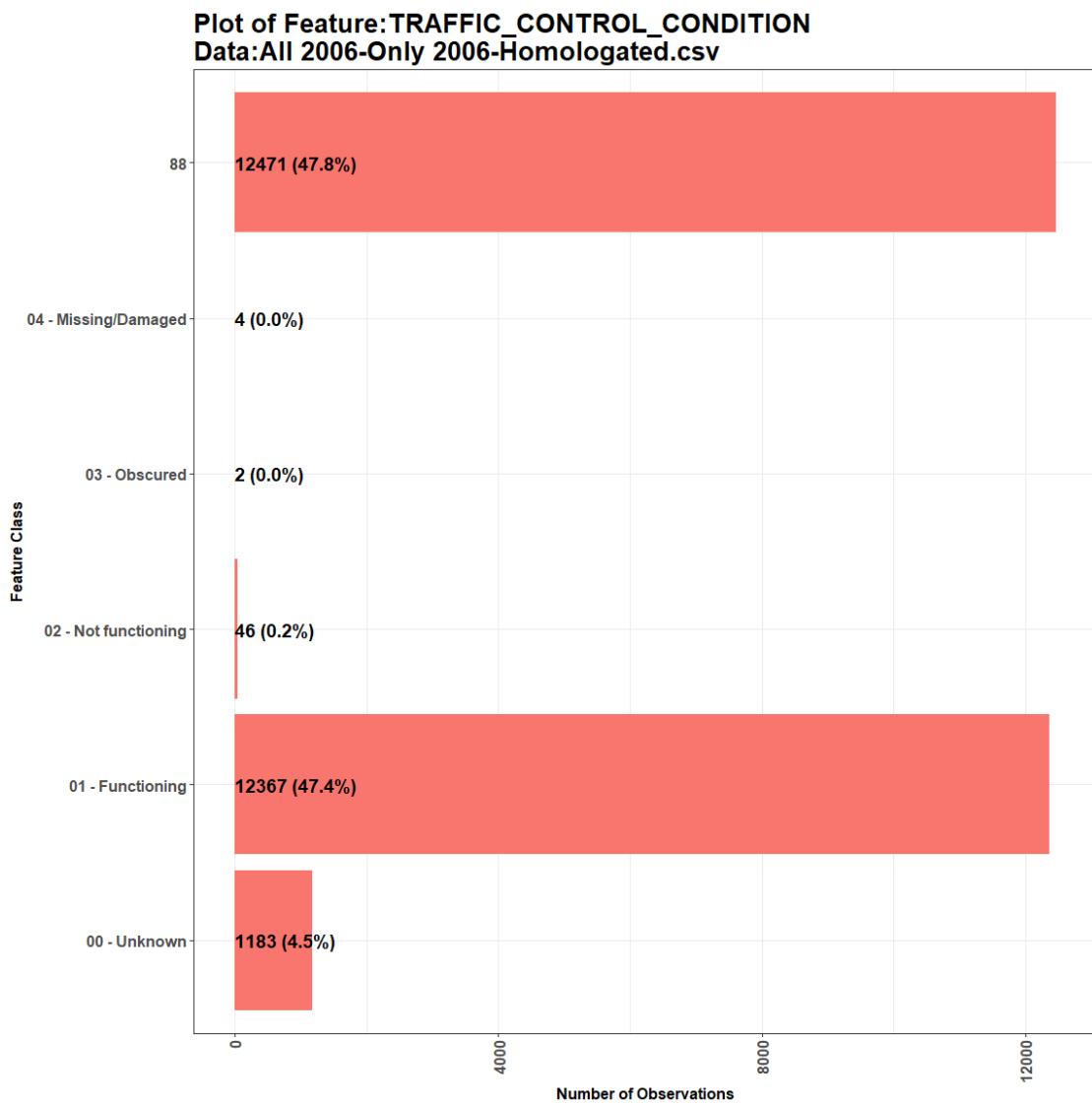
## 00 - Unknown	1488	5.5929
## 01 - Functioning	12230	45.9688
## 02 - Not functioning	26	0.0977
## 03 - Obscured	6	0.0226
## 04 - Missing/Damaged	5	0.0188
## 88	12850	48.2992

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2005-Only 2005-Homologated.csv



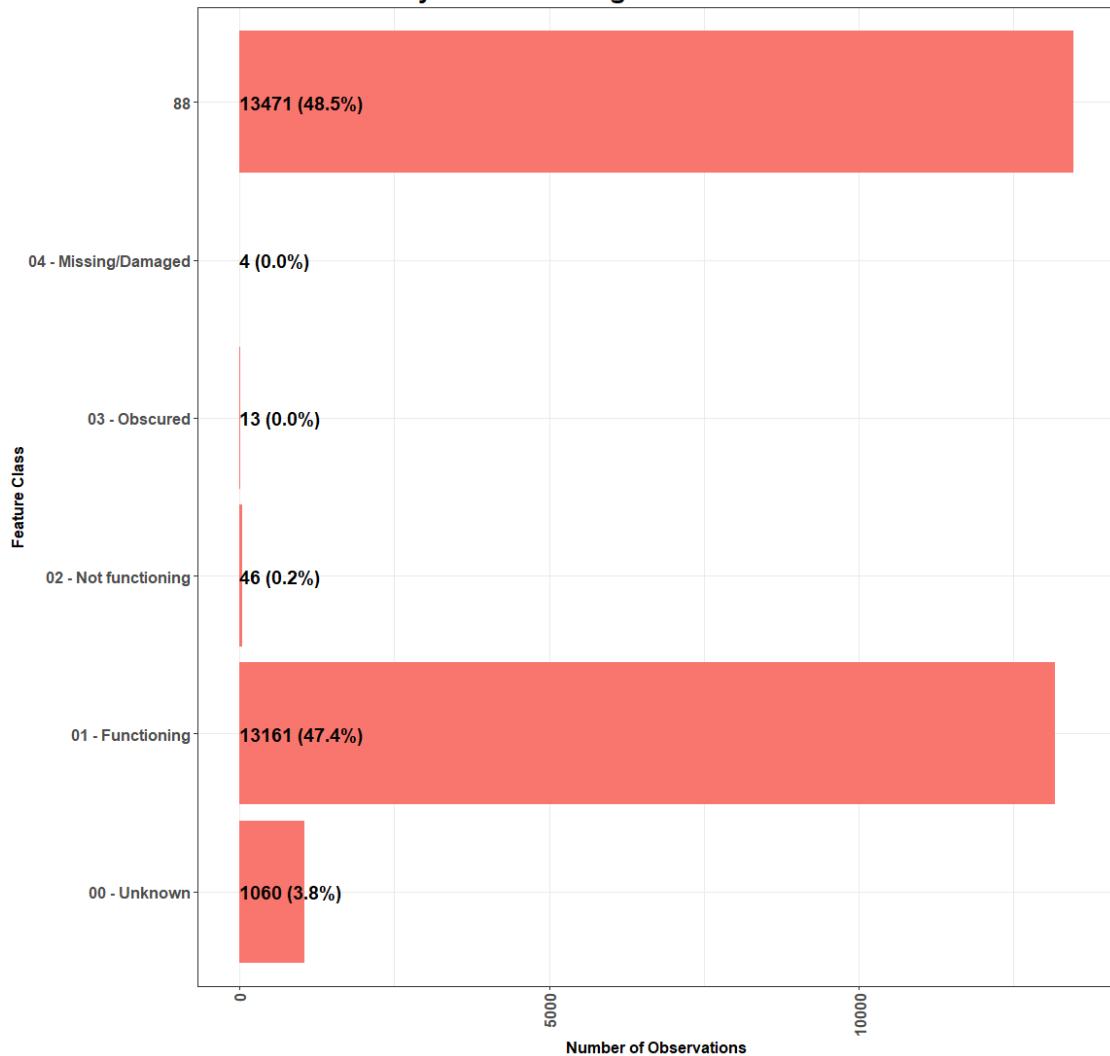
```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
```

```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1183 4.5373
## 01 - Functioning 12367 47.4322
## 02 - Not functioning 46 0.1764
## 03 - Obscured 2 0.0077
## 04 - Missing/Damaged 4 0.0153
## 88 12471 47.8311
```



```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1060 3.8191  
## 01 - Functioning 13161 47.4185  
## 02 - Not functioning 46 0.1657  
## 03 - Obscured 13 0.0468  
## 04 - Missing/Damaged 4 0.0144  
## 88 13471 48.5354
```

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2007-Only 2007-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  

## DATA:All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  

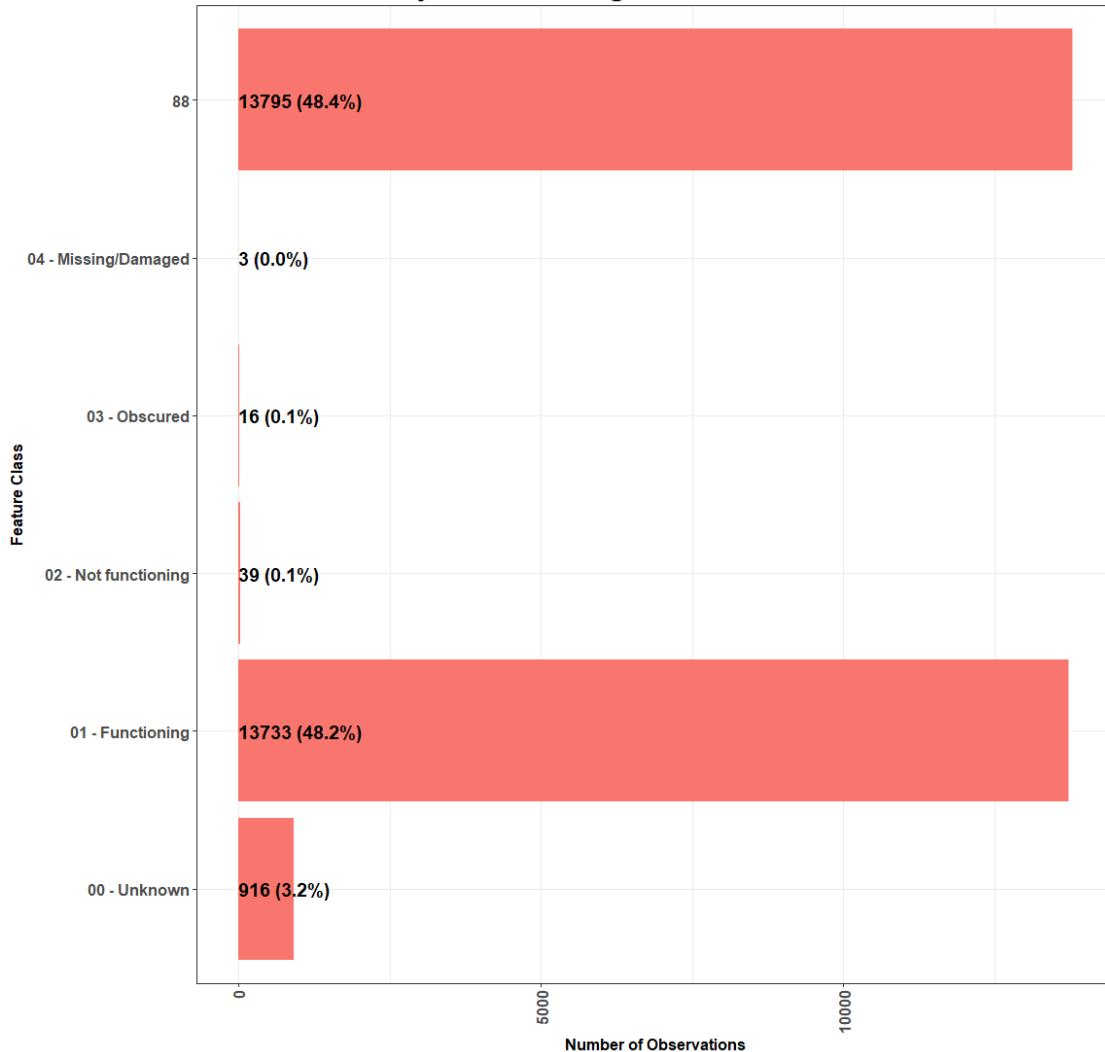
##  

## Feature Value Counter Percentage  

## -----
```

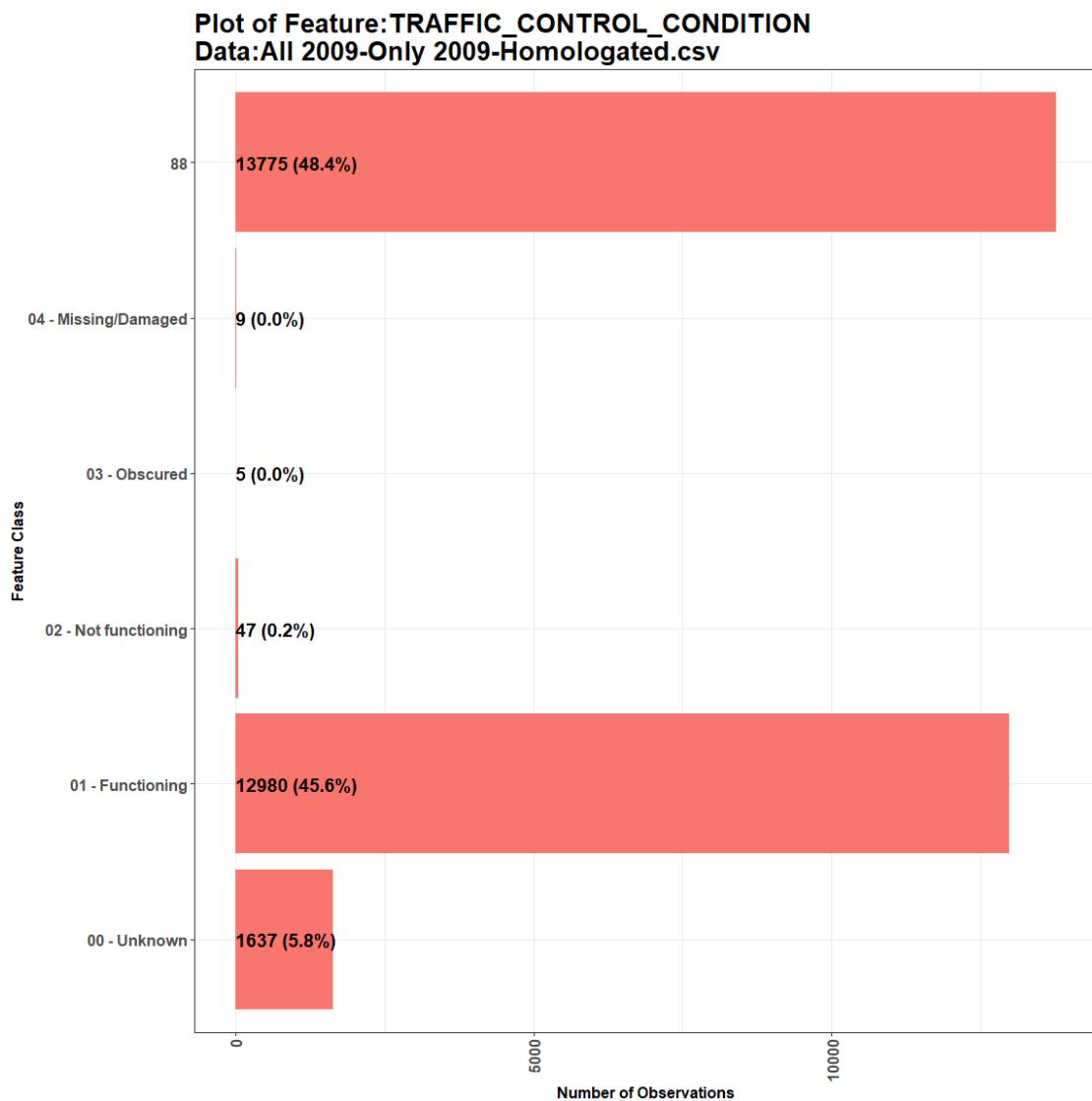
## 00 - Unknown	916	3.2138
## 01 - Functioning	13733	48.1826
## 02 - Not functioning	39	0.1368
## 03 - Obscured	16	0.0561
## 04 - Missing/Damaged	3	0.0105
## 88	13795	48.4001

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2008-Only 2008-Homologated.csv



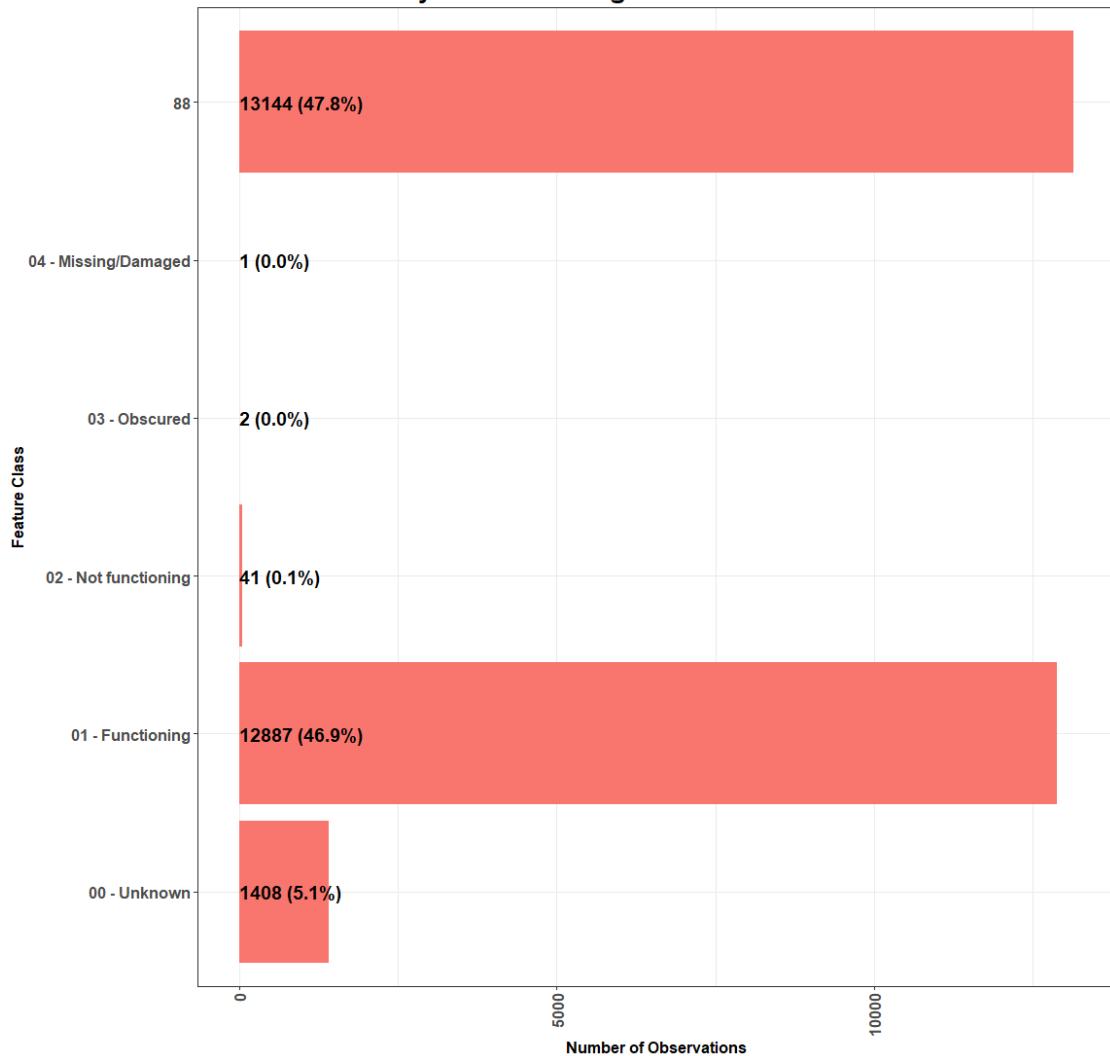
```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
```

```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1637 5.7533
## 01 - Functioning 12980 45.6191
## 02 - Not functioning 47 0.1652
## 03 - Obscured 5 0.0176
## 04 - Missing/Damaged 9 0.0316
## 88 13775 48.4132
```



```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1408 5.1232  
## 01 - Functioning 12887 46.8908  
## 02 - Not functioning 41 0.1492  
## 03 - Obscured 2 0.0073  
## 04 - Missing/Damaged 1 0.0036  
## 88 13144 47.8259
```

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2010-Only 2010-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  

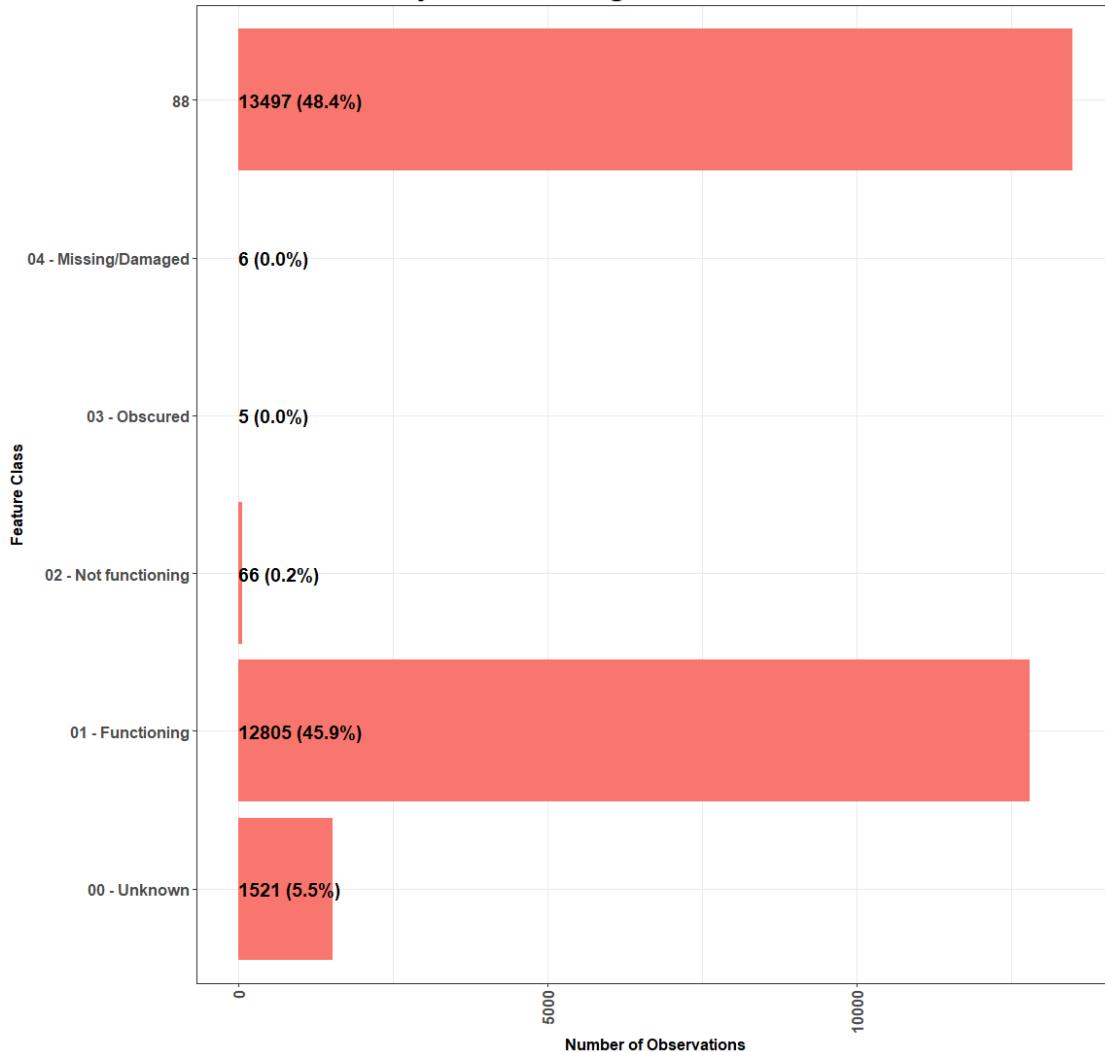
##  

## Feature Value          Counter    Percentage  

## -----
```

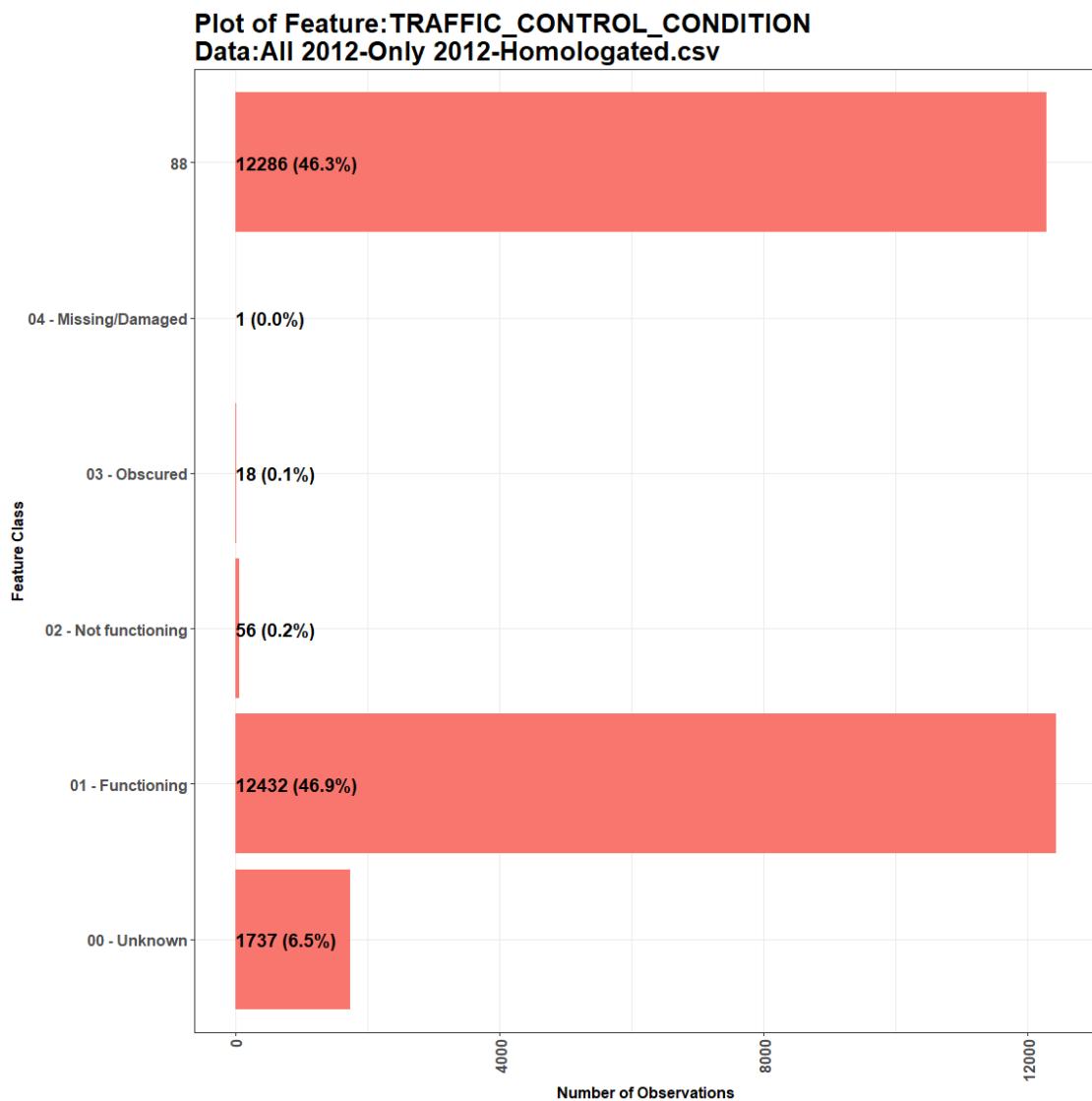
## 00 - Unknown	1521	5.4516
## 01 - Functioning	12805	45.8961
## 02 - Not functioning	66	0.2366
## 03 - Obscured	5	0.0179
## 04 - Missing/Damaged	6	0.0215
## 88	13497	48.3763

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2011-Only 2011-Homologated.csv



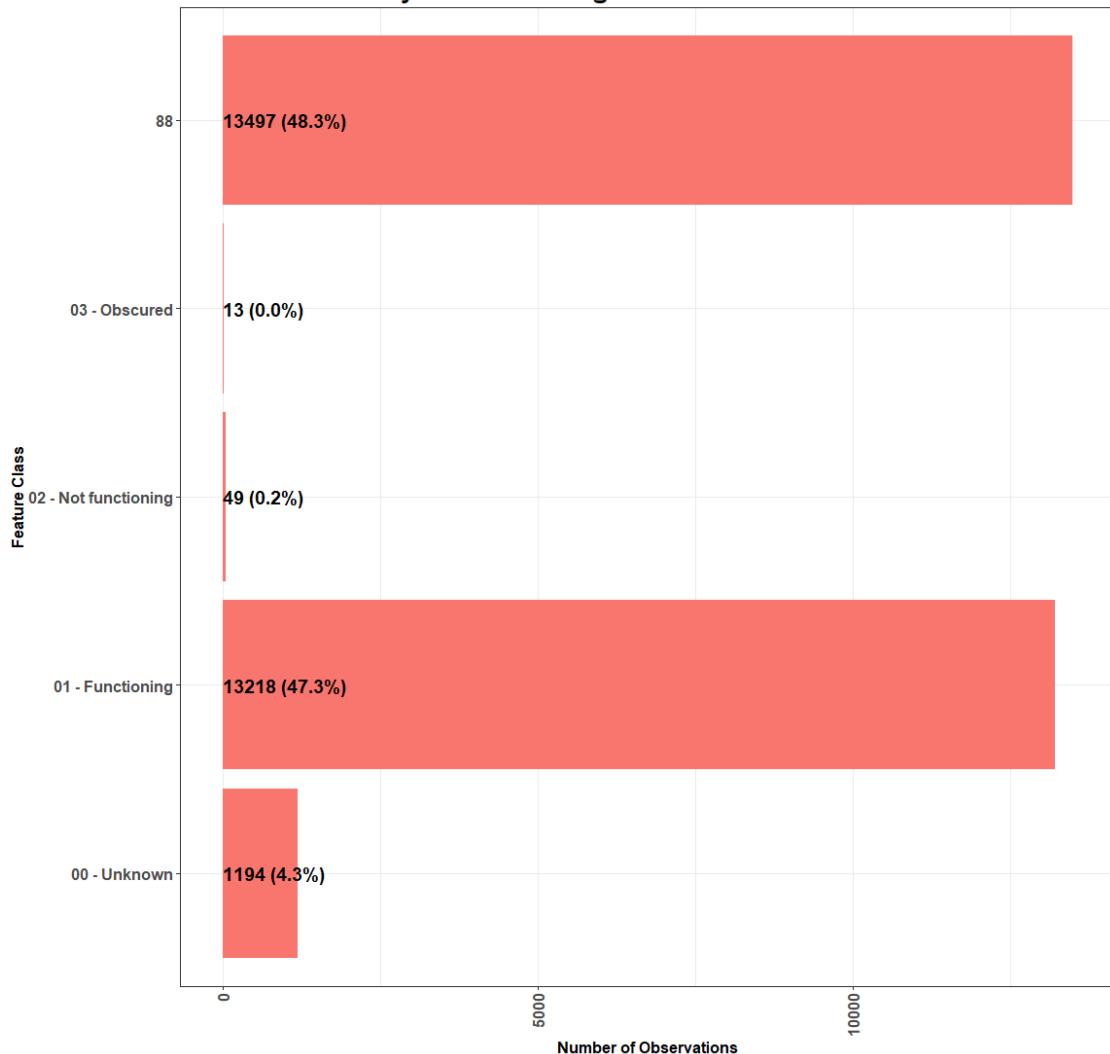
```
##
## -----
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
```

```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1737 6.5473
## 01 - Functioning 12432 46.8602
## 02 - Not functioning 56 0.2111
## 03 - Obscured 18 0.0678
## 04 - Missing/Damaged 1 0.0038
## 88 12286 46.3098
```



```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  
## DATA:All 2013-Only 2013-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 5  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1194 4.2687  
## 01 - Functioning 13218 47.2561  
## 02 - Not functioning 49 0.1752  
## 03 - Obscured 13 0.0465  
## 88 13497 48.2535
```

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2013-Only 2013-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  

## DATA:All 2014-Only 2014-Homologated.csv...  

##  

## Number of Blank Values:12426  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

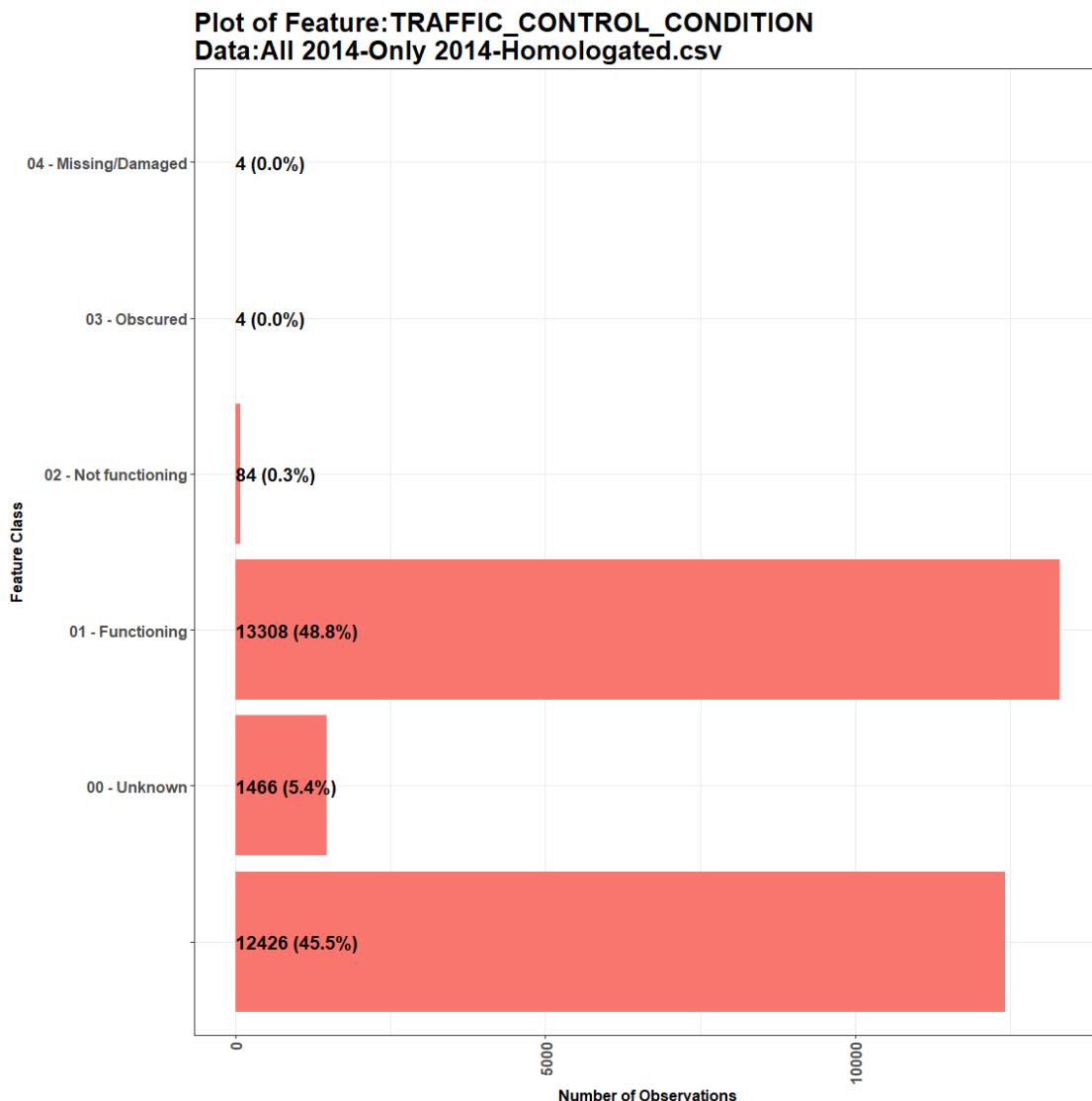
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  

##  

## Feature Value          Counter    Percentage  

## -----
```

```
##          12426    45.5298
## 00 - Unknown      1466     5.3715
## 01 - Functioning   13308    48.7615
## 02 - Not functioning      84     0.3078
## 03 - Obscured        4     0.0147
## 04 - Missing/Damaged      4     0.0147
```



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

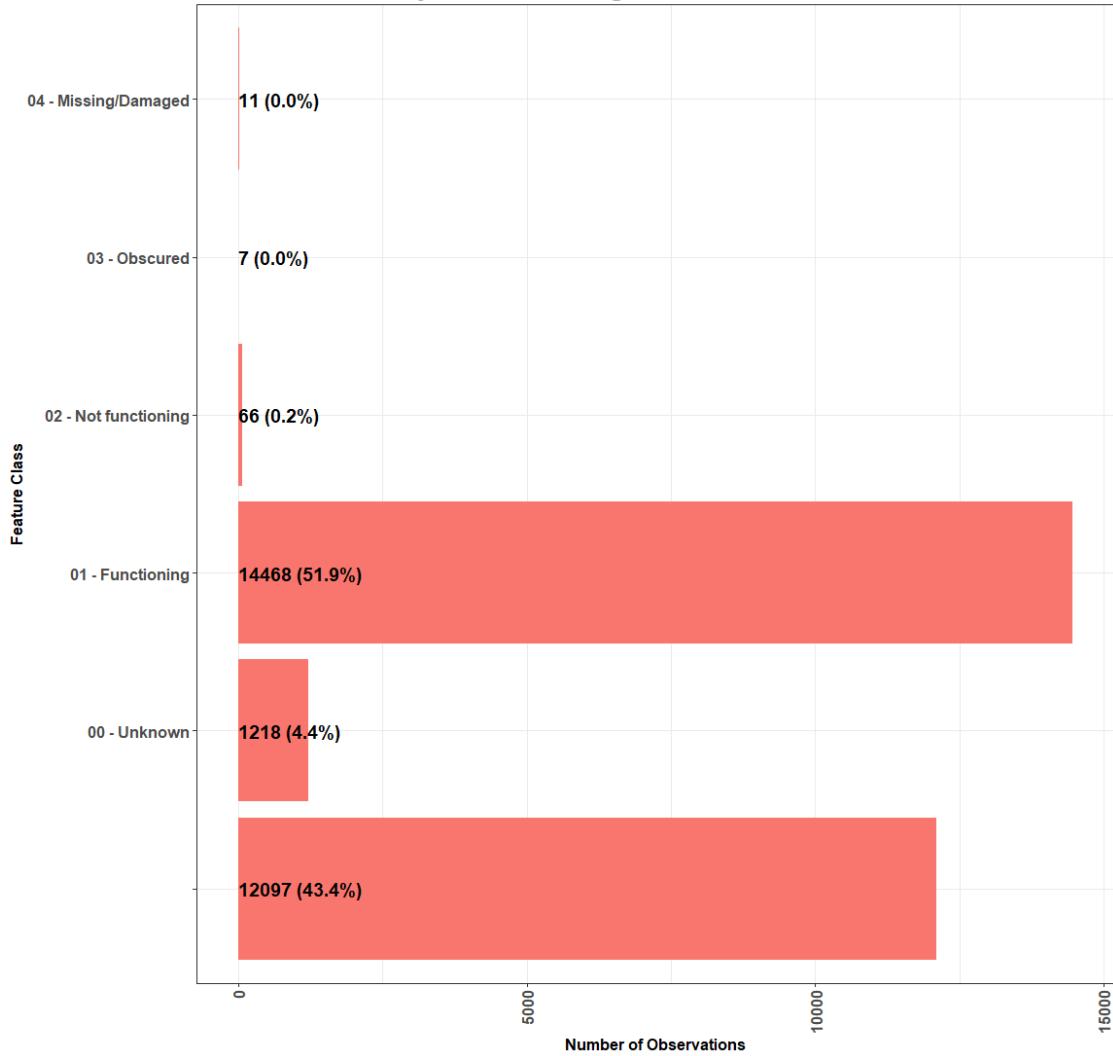
## Number of Blank Values:12097  

##  

## Summary as Factor Feature:
```

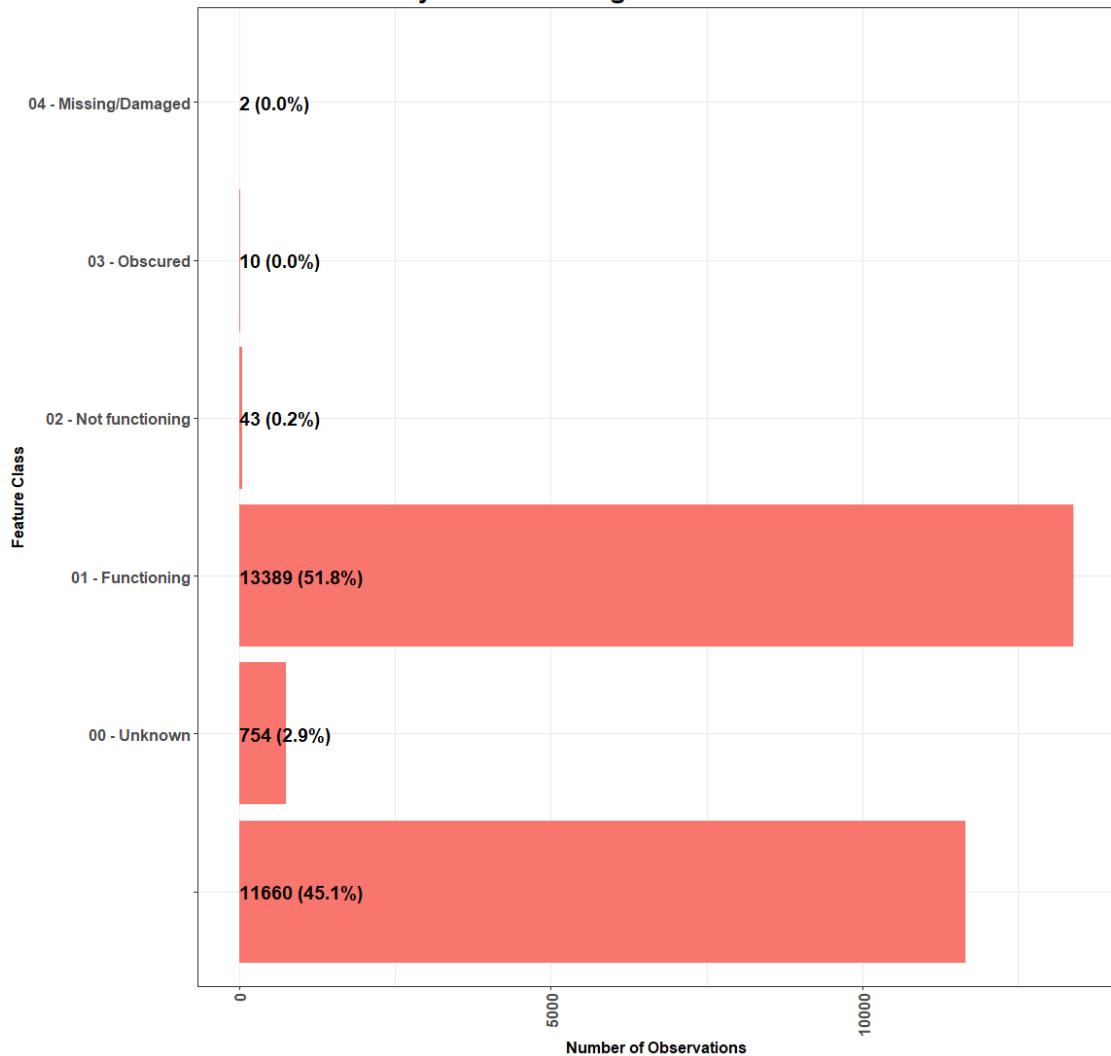
```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 12097 43.4098
## 01 - Functioning 1218 4.3708
## 02 - Not functioning 14468 51.9180
## 03 - Obscured 66 0.2368
## 04 - Missing/Damaged 7 0.0251
## 05 - Unknown 11 0.0395
```

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2015-Only 2015-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:11660  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  
##  
## Feature Value Counter Percentage  
## -----  
## 11660 45.0924  
## 00 - Unknown 754 2.9159  
## 01 - Functioning 13389 51.7789  
## 02 - Not functioning 43 0.1663  
## 03 - Obscured 10 0.0387  
## 04 - Missing/Damaged 2 0.0077
```

Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:10839  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF TRAFFIC_CONTROL_CONDITION  

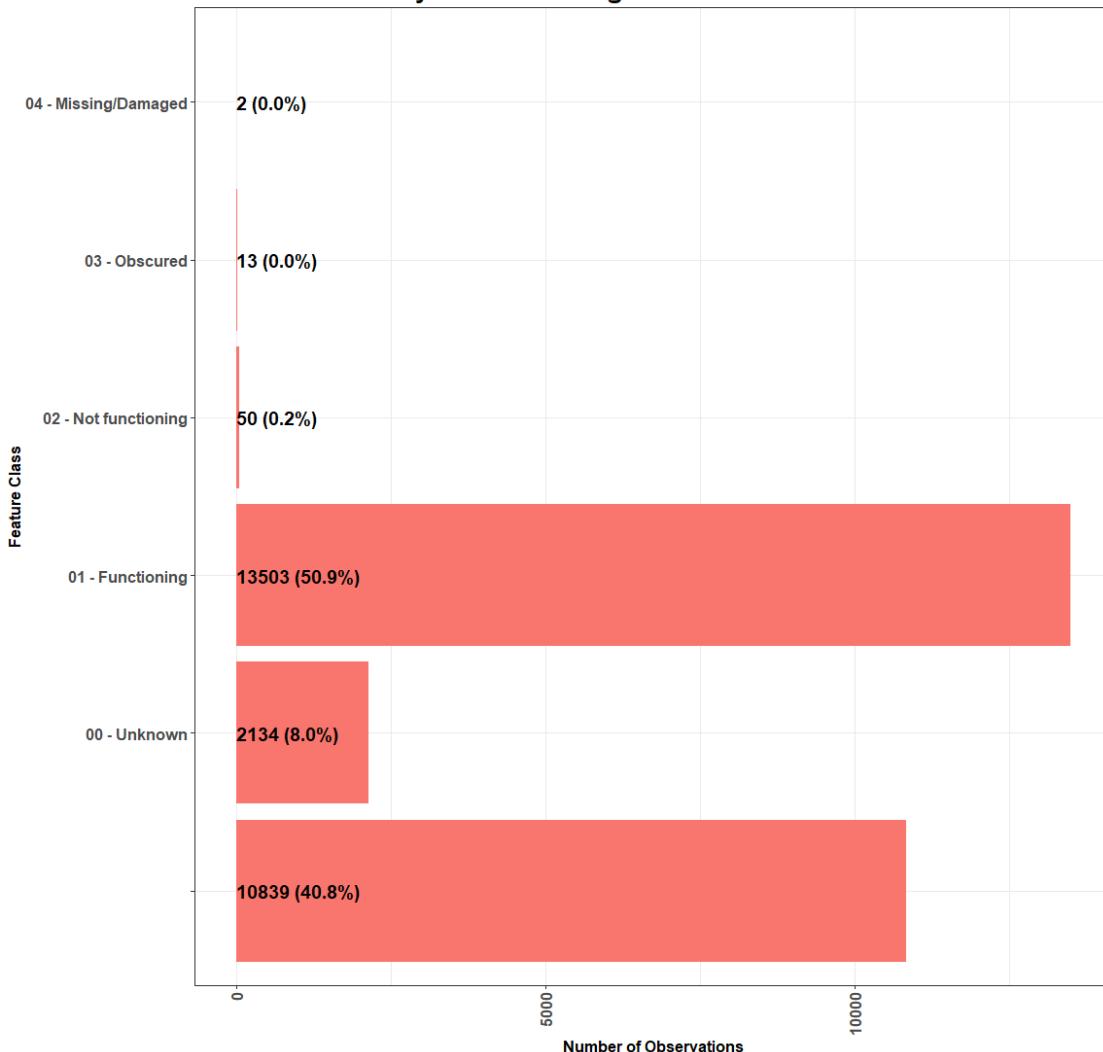
##  

## Feature Value Counter Percentage  

## -----
```

##	10839	40.8387
## 00 - Unknown	2134	8.0404
## 01 - Functioning	13503	50.8760
## 02 - Not functioning	50	0.1884
## 03 - Obscured	13	0.0490
## 04 - Missing/Damaged	2	0.0075

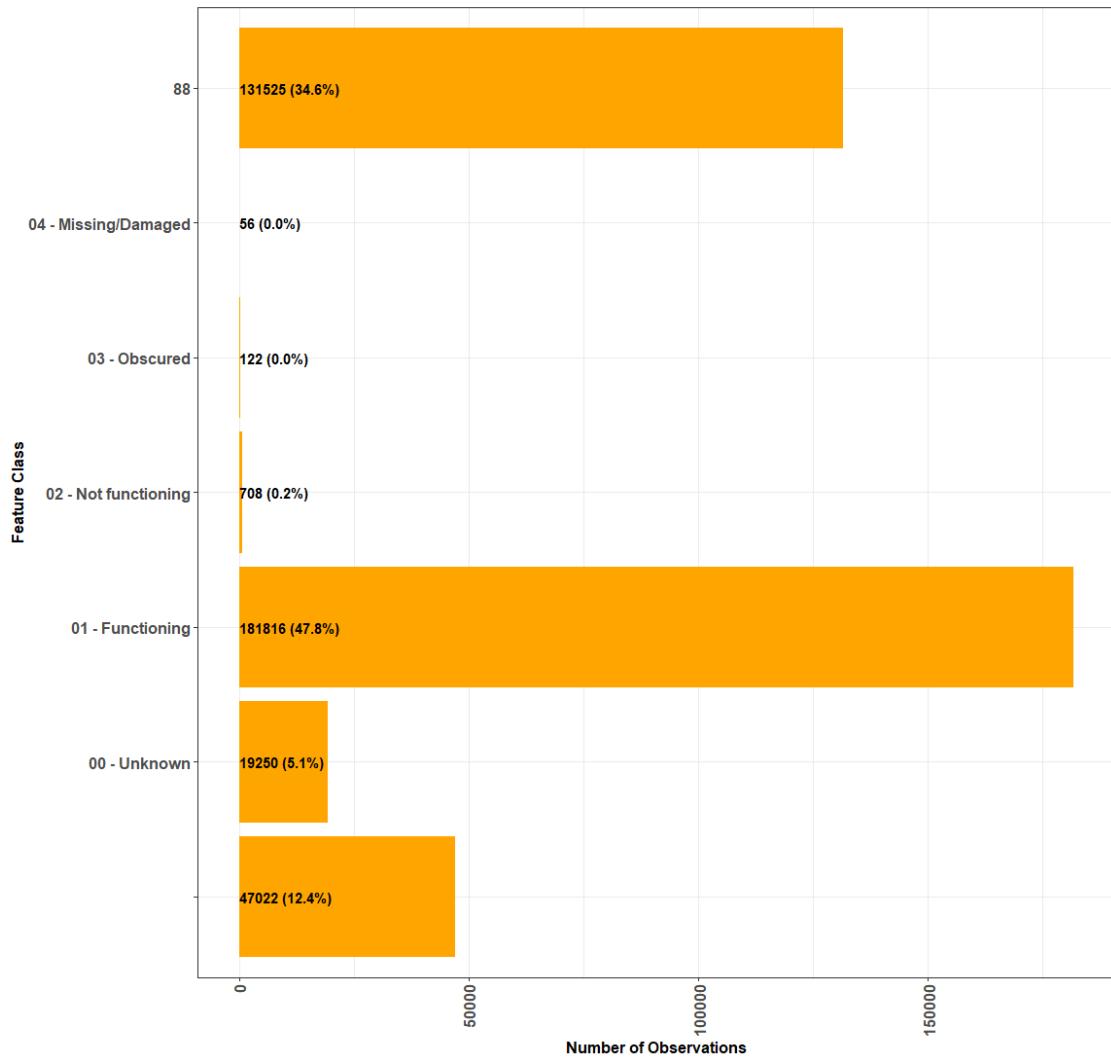
Plot of Feature:TRAFFIC_CONTROL_CONDITION
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:TRAFFIC_CONTROL_CONDITION
## ALL DATA...
## =====
## Number of Blank Values:47022
##
```

```
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 7
```

**Plot of Feature:TRAFFIC_CONTROL_CONDITION
All Data**

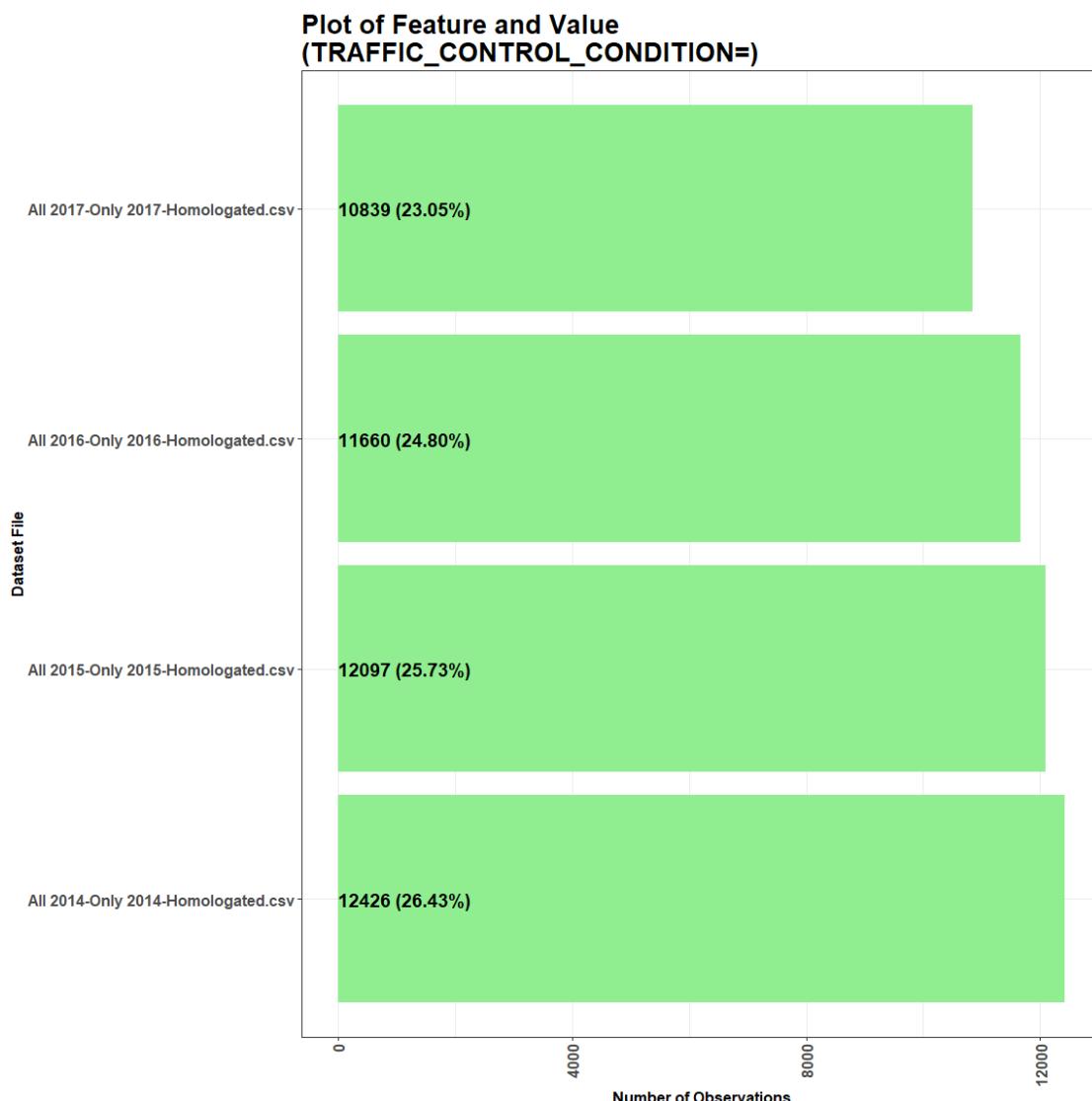


```
## [1] "TOP 100 FEATURES COUNTERS OF:TRAFFIC_CONTROL_CONDITION"
```

Feature Value	Counter	Percentage
	47022	12.3580
00 - Unknown	19250	5.0591
01 - Functioning	181816	47.7836
02 - Not functioning	708	0.1861
03 - Obscured	122	0.0321
04 - Missing/Damaged	56	0.0147
88	131525	34.5665

23.1 TRAFFIC_CONTROL_CONDITION = "" (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (TRAFFIC_CONTROL_CONDITION=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 12426 12097  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 11660 10839
```

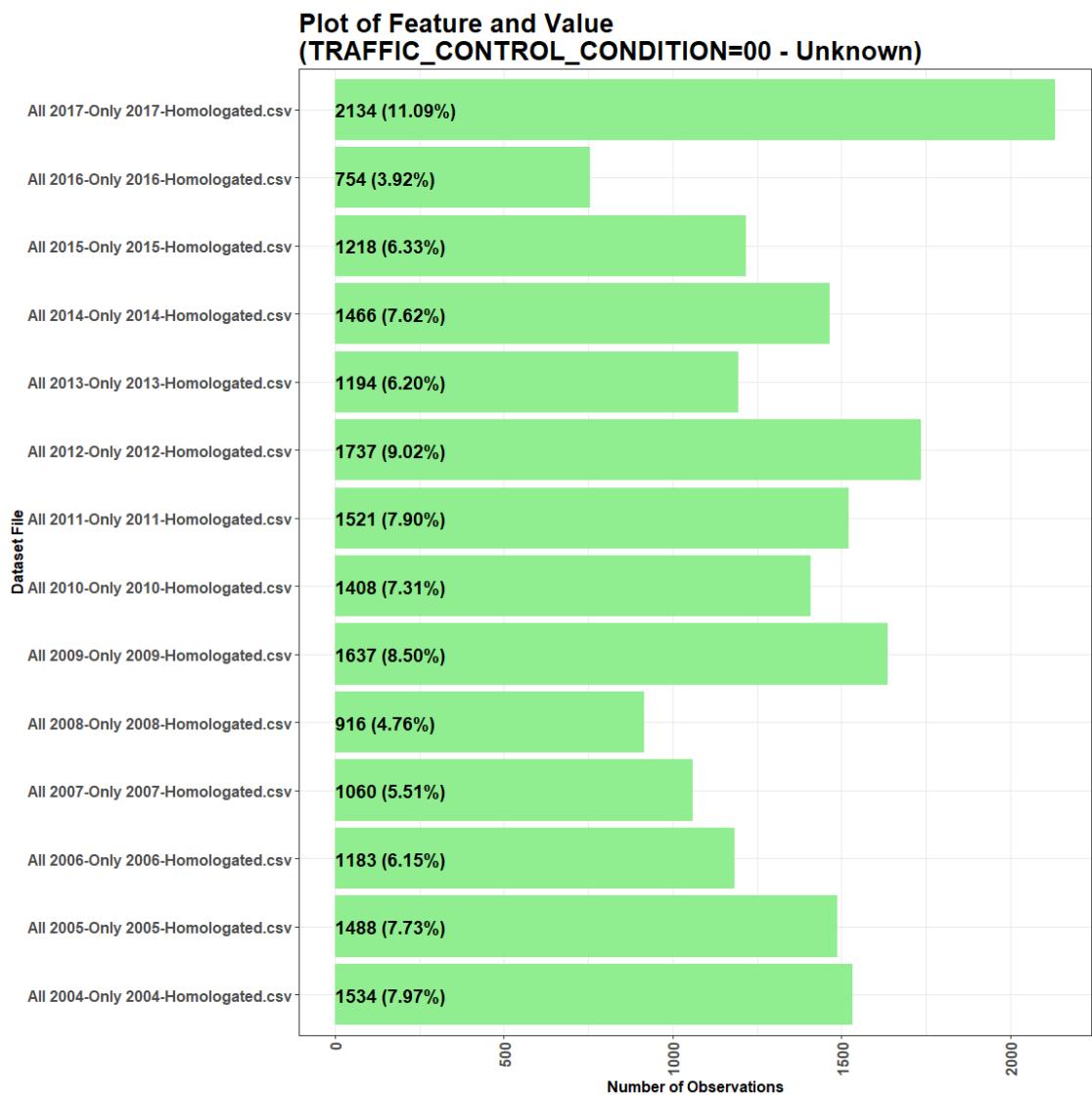


DATASET FILE	COUNTER OF (TRAFFIC_CONTROL_CONDITION=)	Percentage
All 2014-Only 2014-	12426	26.43

Homologated.csv			
All 2015-Only 2015-Homologated.csv	12097	25.73	
All 2016-Only 2016-Homologated.csv	11660	24.80	
All 2017-Only 2017-Homologated.csv	10839	23.05	

23.2 TRAFFIC_CONTROL_CONDITION = "00 - Unknown"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (TRAFFIC_CONTROL_CONDITION=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 1534 1488  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 1183 1060  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 916 1637  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 1408 1521  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 1737 1194  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 1466 1218  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 754 2134
```

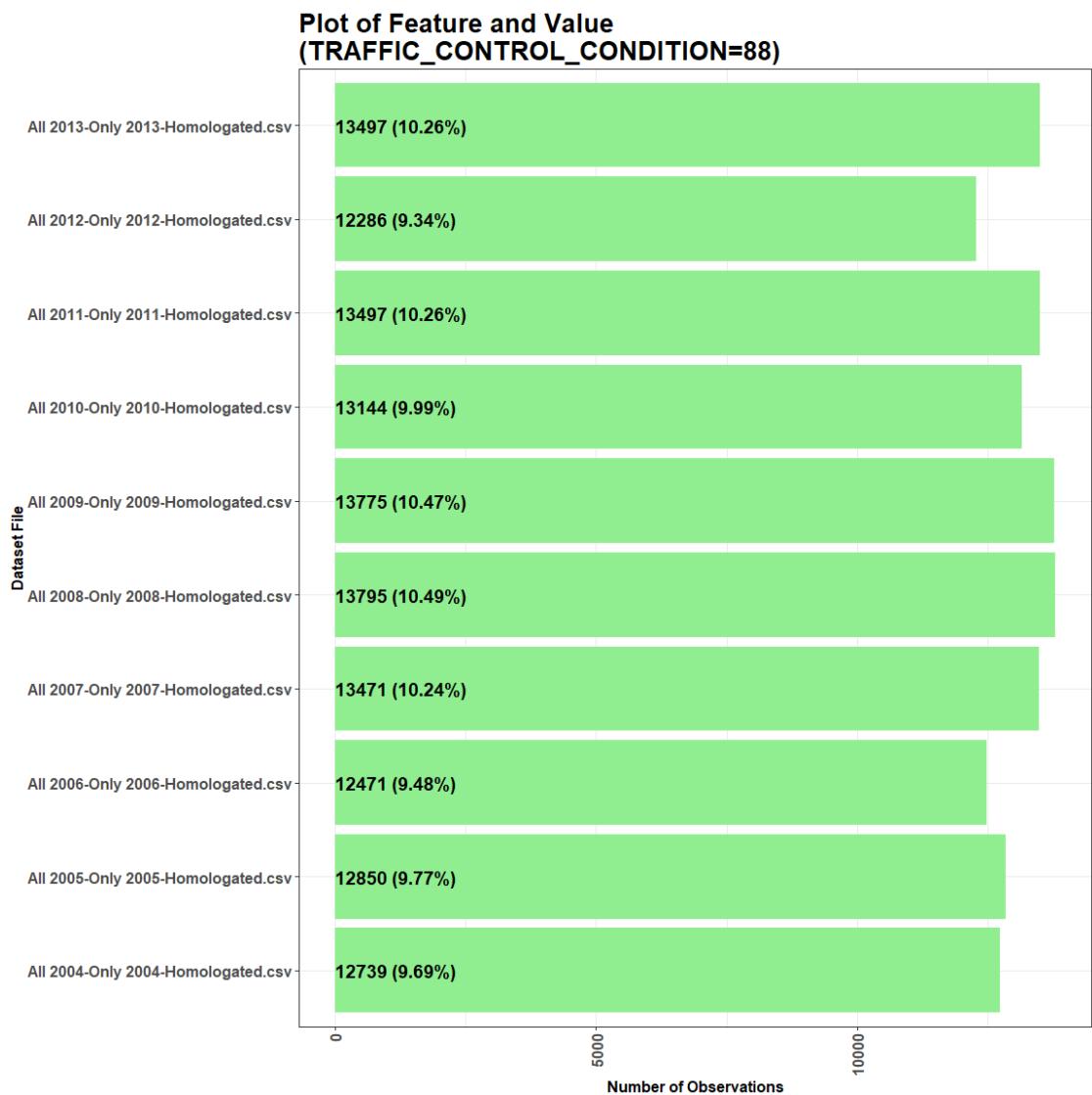


DATASET FILE	COUNTER OF (TRAFFIC_CONTROL_CONDITION=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	1534	7.969	
All 2005-Only 2005-Homologated.csv	1488	7.730	
All 2006-Only 2006-Homologated.csv	1183	6.146	
All 2007-Only 2007-Homologated.csv	1060	5.506	
All 2008-Only 2008-	916	4.758	

Homologated.csv		
All 2009-Only 2009-Homologated.csv	1637	8.504
All 2010-Only 2010-Homologated.csv	1408	7.314
All 2011-Only 2011-Homologated.csv	1521	7.901
All 2012-Only 2012-Homologated.csv	1737	9.023
All 2013-Only 2013-Homologated.csv	1194	6.203
All 2014-Only 2014-Homologated.csv	1466	7.616
All 2015-Only 2015-Homologated.csv	1218	6.327
All 2016-Only 2016-Homologated.csv	754	3.917
All 2017-Only 2017-Homologated.csv	2134	11.086

23.3 TRAFFIC_CONTROL_CONDITION = “88”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (TRAFFIC_CONTROL_CONDITION=88)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 12739 12850  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 12471 13471  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 13795 13775  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 13144 13497  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 12286 13497
```

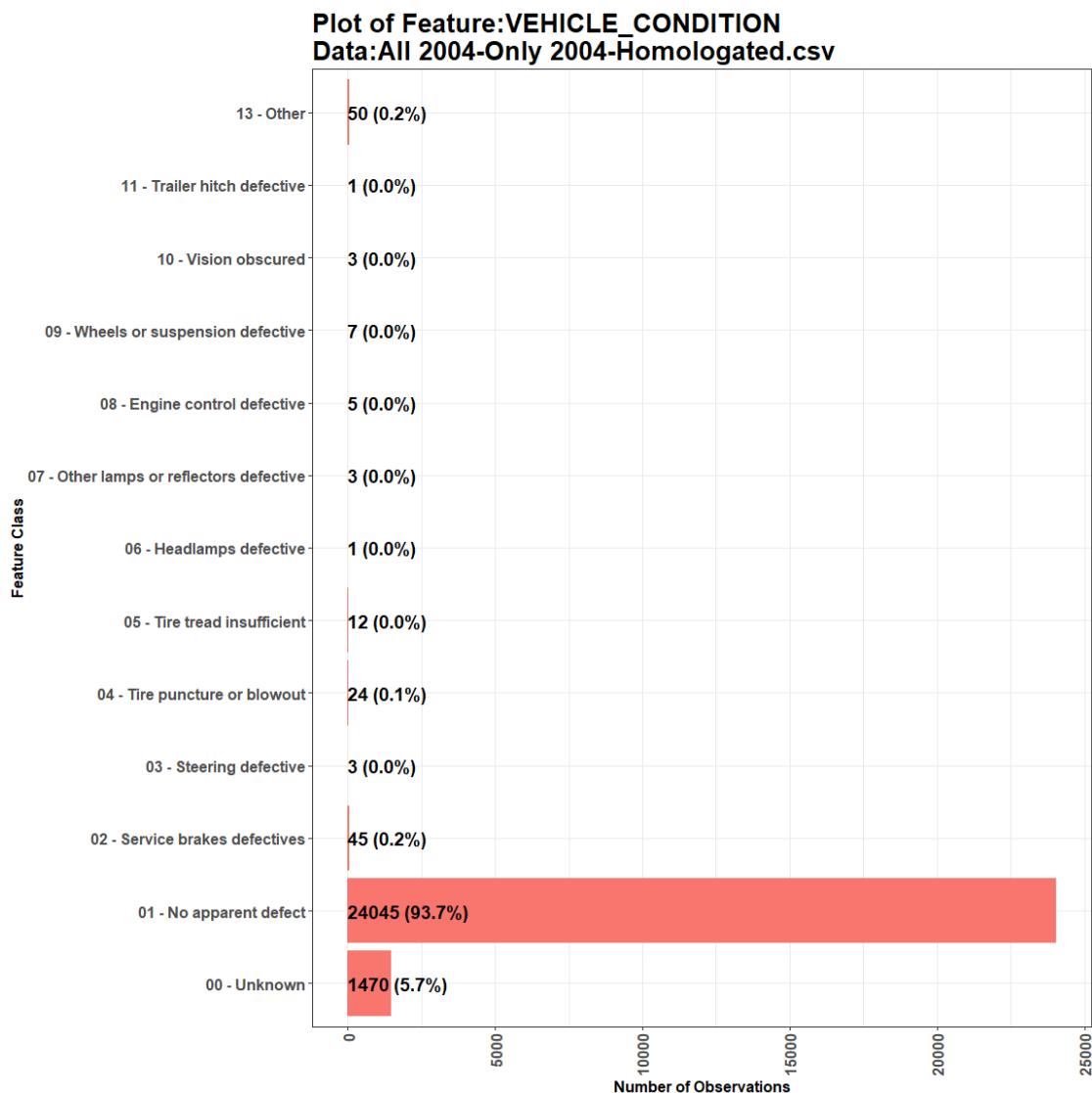


DATASET FILE	COUNTER OF (TRAFFIC_CONTROL_CONDITION=88)	Percentage
All 2004-Only 2004-Homologated.csv	12739	9.686
All 2005-Only 2005-Homologated.csv	12850	9.770
All 2006-Only 2006-Homologated.csv	12471	9.482
All 2007-Only 2007-Homologated.csv	13471	10.242
All 2008-Only 2008-Homologated.csv	13795	10.489

All 2009-Only 2009-Homologated.csv	13775	10.473
All 2010-Only 2010-Homologated.csv	13144	9.993
All 2011-Only 2011-Homologated.csv	13497	10.262
All 2012-Only 2012-Homologated.csv	12286	9.341
All 2013-Only 2013-Homologated.csv	13497	10.262

24. Vehicle Condition (VEHICLE_CONDITION)

```
##
## -----
## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 13
##
## TOP 100 FEATURES OF VEHICLE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1470 5.7268
## 01 - No apparent defect 24045 93.6733
## 02 - Service brakes defectives 45 0.1753
## 03 - Steering defective 3 0.0117
## 04 - Tire puncture or blowout 24 0.0935
## 05 - Tire tread insufficient 12 0.0467
## 06 - Headlamps defective 1 0.0039
## 07 - Other lamps or reflectors defective 3 0.0117
## 08 - Engine control defective 5 0.0195
## 09 - Wheels or suspension defective 7 0.0273
## 10 - Vision obscured 3 0.0117
## 11 - Trailer hitch defective 1 0.0039
## 13 - Other 50 0.1948
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 12  

##  

## TOP 100 FEATURES OF VEHICLE_CONDITION  

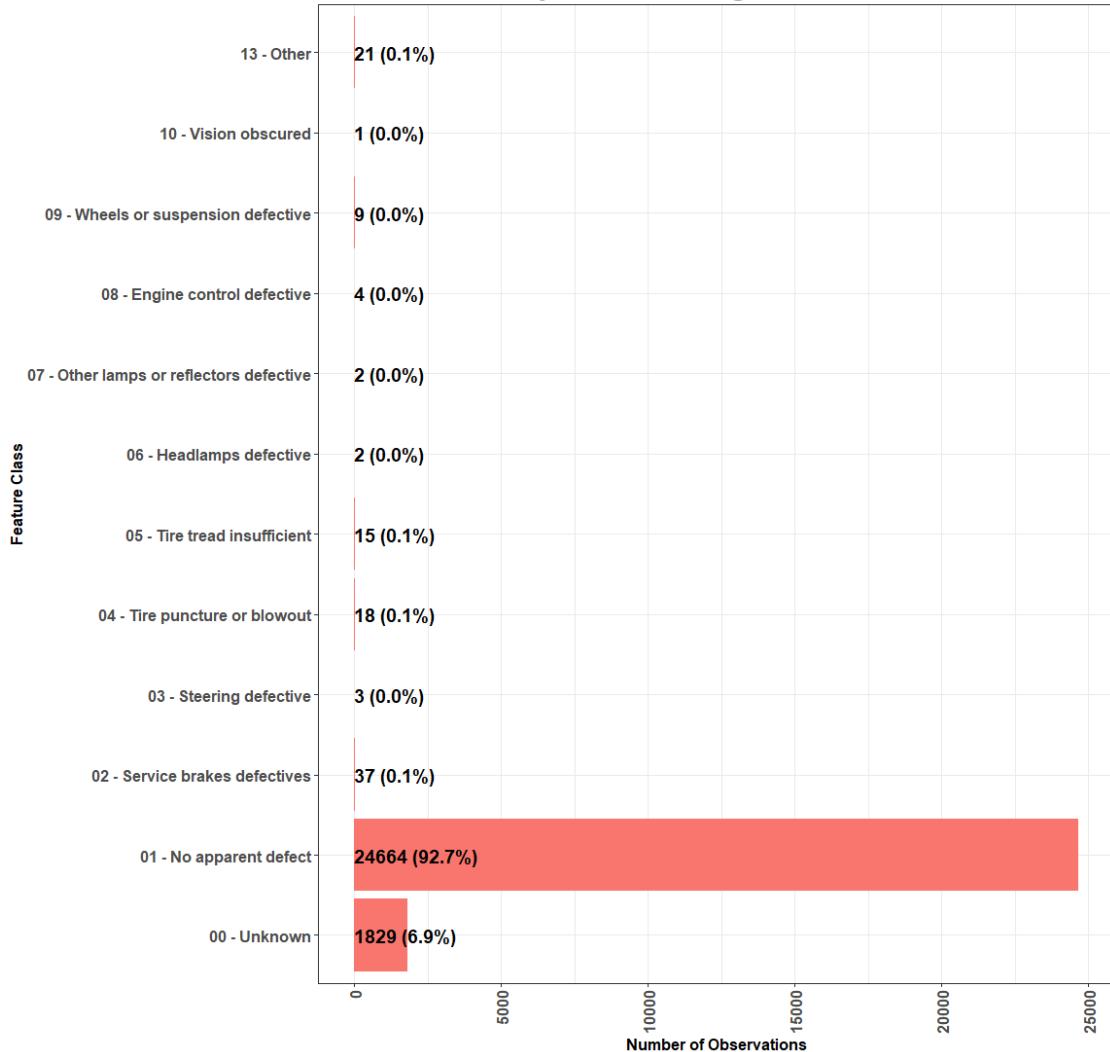
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	1829	6.8746
## 01 - No apparent defect	24664	92.7044
## 02 - Service brakes defectives	37	0.1391
## 03 - Steering defective	3	0.0113
## 04 - Tire puncture or blowout	18	0.0677
## 05 - Tire tread insufficient	15	0.0564
## 06 - Headlamps defective	2	0.0075
## 07 - Other lamps or reflectors defective	2	0.0075
## 08 - Engine control defective	4	0.0150
## 09 - Wheels or suspension defective	9	0.0338
## 10 - Vision obscured	1	0.0038
## 13 - Other	21	0.0789

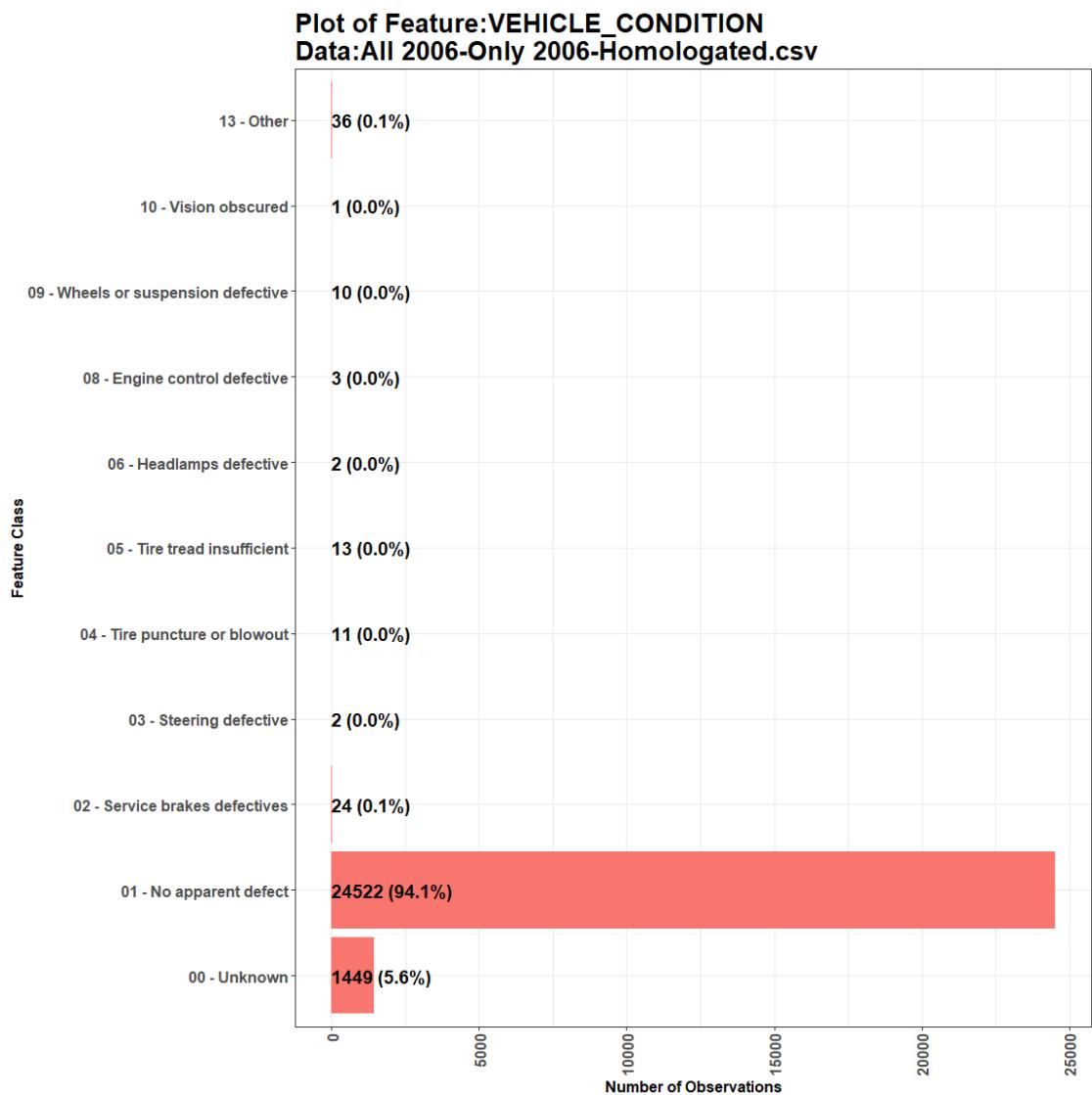
Plot of Feature:VEHICLE_CONDITION
Data:All 2005-Only 2005-Homologated.csv



##

----- -

```
## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 11
##
## TOP 100 FEATURES OF VEHICLE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1449 5.5575
## 01 - No apparent defect 24522 94.0513
## 02 - Service brakes defectives 24 0.0920
## 03 - Steering defective 2 0.0077
## 04 - Tire puncture or blowout 11 0.0422
## 05 - Tire tread insufficient 13 0.0499
## 06 - Headlamps defective 2 0.0077
## 08 - Engine control defective 3 0.0115
## 09 - Wheels or suspension defective 10 0.0384
## 10 - Vision obscured 1 0.0038
## 13 - Other 36 0.1381
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2007-Only 2007-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 9  

##  

## TOP 100 FEATURES OF VEHICLE_CONDITION  

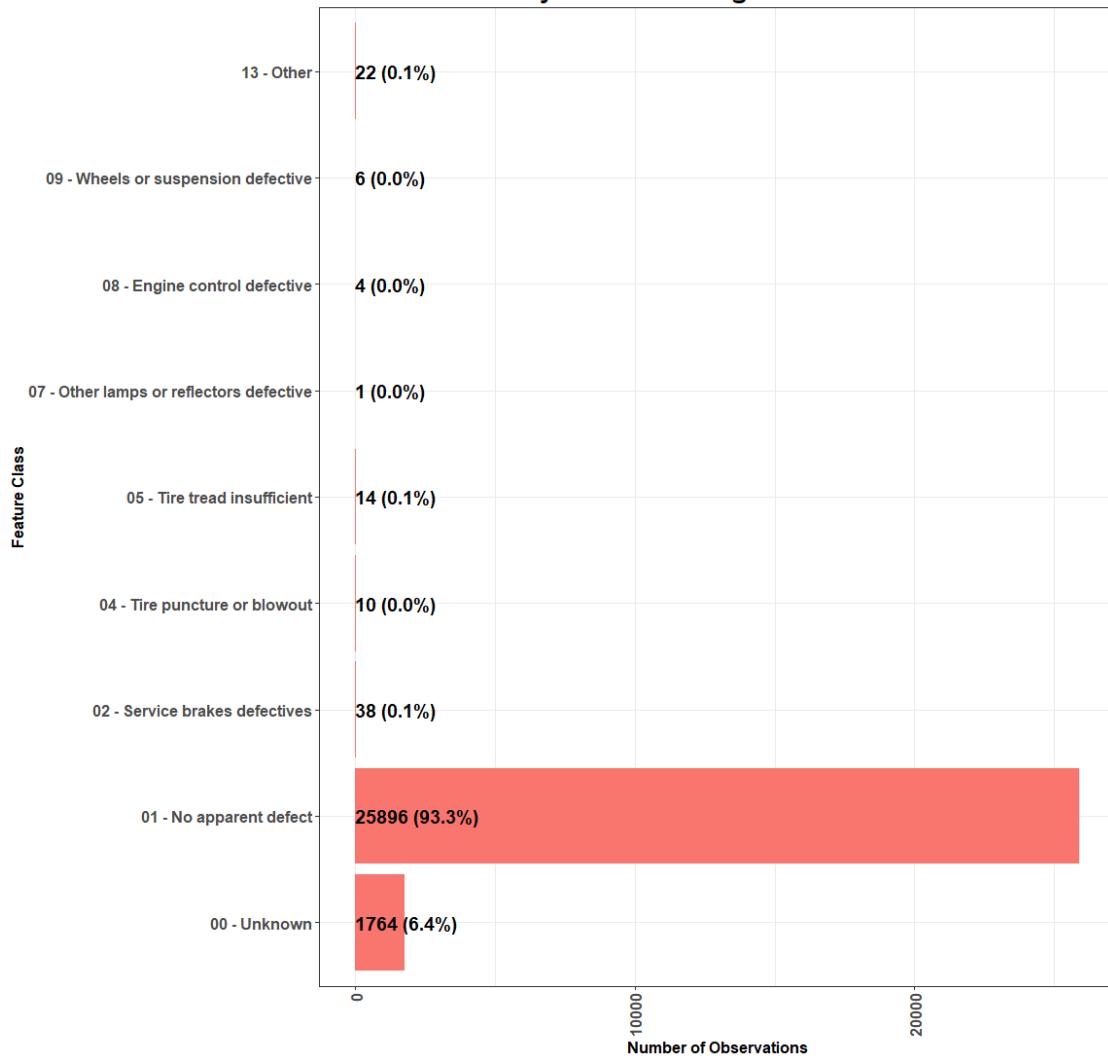
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	1764	6.3556
## 01 - No apparent defect	25896	93.3021
## 02 - Service brakes defectives	38	0.1369
## 04 - Tire puncture or blowout	10	0.0360
## 05 - Tire tread insufficient	14	0.0504
## 07 - Other lamps or reflectors defective	1	0.0036
## 08 - Engine control defective	4	0.0144
## 09 - Wheels or suspension defective	6	0.0216
## 13 - Other	22	0.0793

**Plot of Feature:VEHICLE_CONDITION
Data:All 2007-Only 2007-Homologated.csv**



```
##
## -----
## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2008-Only 2008-Homologated.csv...
##
```

```
## Number of Blank Values:0
```

```
##
```

```
## Summary as Factor Feature:
```

```
##
```

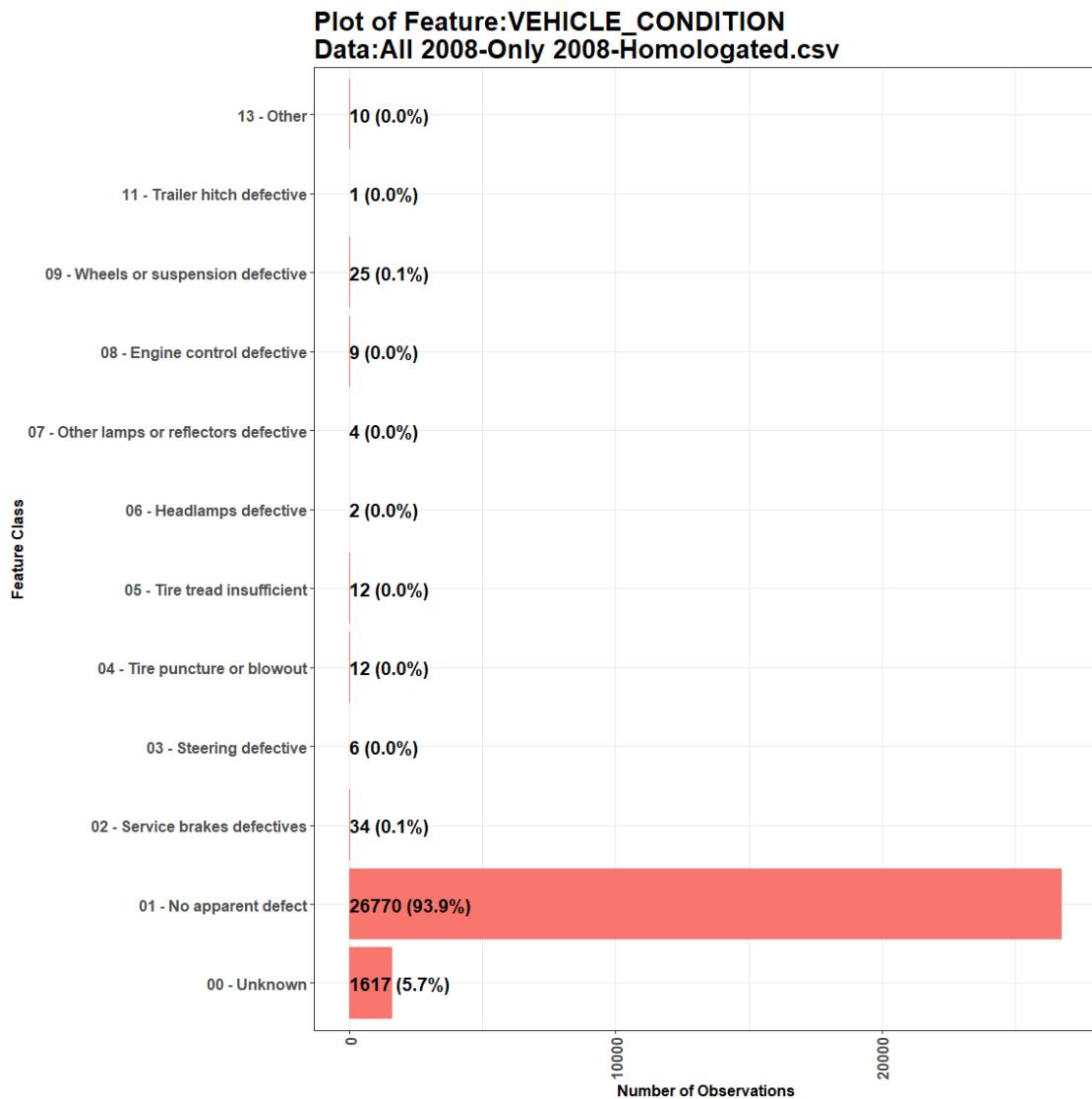
```
## Number of Features: 12
```

```
##
```

```
## TOP 100 FEATURES OF VEHICLE_CONDITION
```

```
##
```

Feature Value	Counter	Percentage
## 00 - Unknown	1617	5.6733
## 01 - No apparent defect	26770	93.9232
## 02 - Service brakes defectives	34	0.1193
## 03 - Steering defective	6	0.0211
## 04 - Tire puncture or blowout	12	0.0421
## 05 - Tire tread insufficient	12	0.0421
## 06 - Headlamps defective	2	0.0070
## 07 - Other lamps or reflectors defective	4	0.0140
## 08 - Engine control defective	9	0.0316
## 09 - Wheels or suspension defective	25	0.0877
## 11 - Trailer hitch defective	1	0.0035
## 13 - Other	10	0.0351



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2009-Only 2009-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 12  

##  

## TOP 100 FEATURES OF VEHICLE_CONDITION  

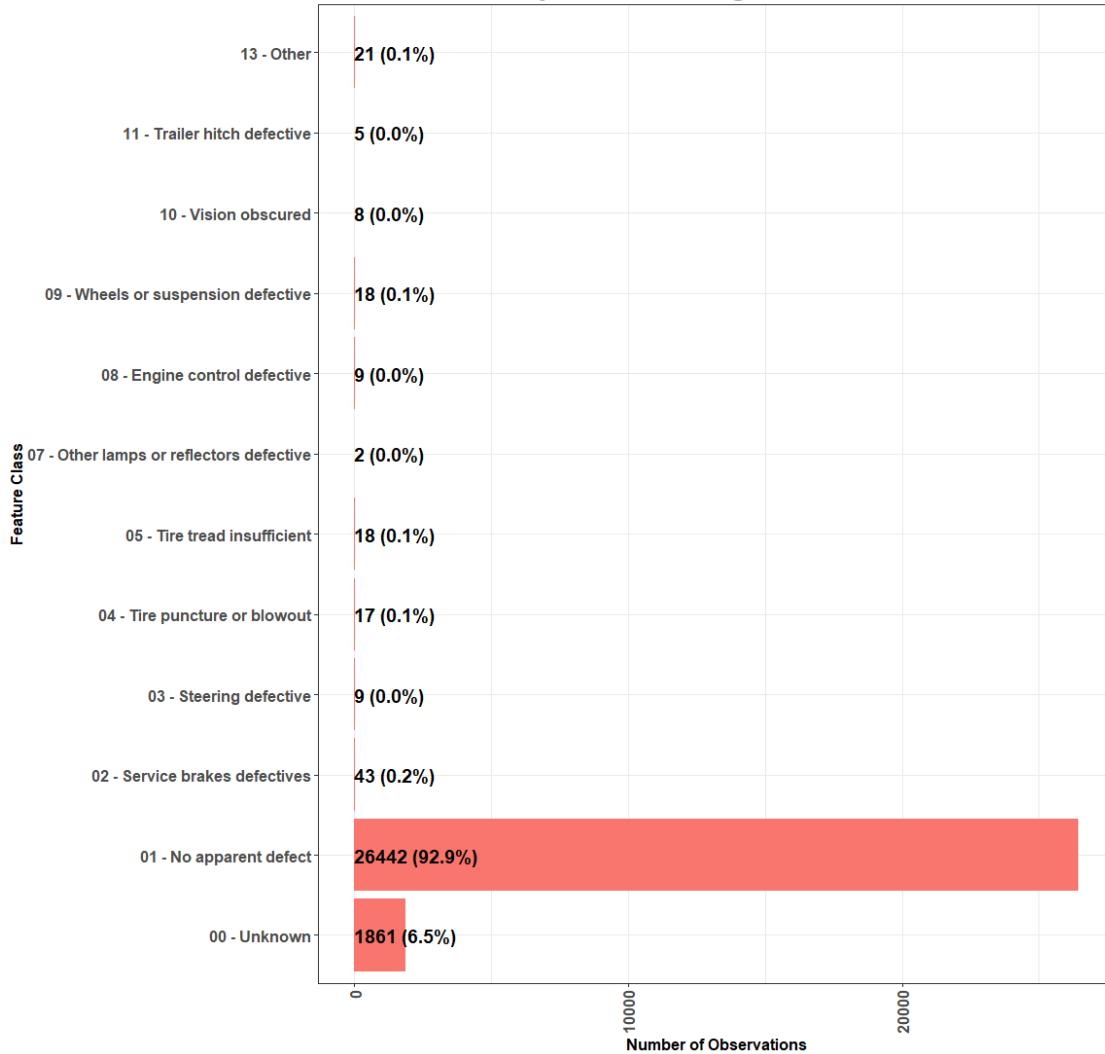
##  

## Feature Value Counter Percentage  

## -----
```

## 00 - Unknown	1861	6.5406
## 01 - No apparent defect	26442	92.9322
## 02 - Service brakes defectives	43	0.1511
## 03 - Steering defective	9	0.0316
## 04 - Tire puncture or blowout	17	0.0597
## 05 - Tire tread insufficient	18	0.0633
## 07 - Other lamps or reflectors defective	2	0.0070
## 08 - Engine control defective	9	0.0316
## 09 - Wheels or suspension defective	18	0.0633
## 10 - Vision obscured	8	0.0281
## 11 - Trailer hitch defective	5	0.0176
## 13 - Other	21	0.0738

**Plot of Feature:VEHICLE_CONDITION
Data:All 2009-Only 2009-Homologated.csv**

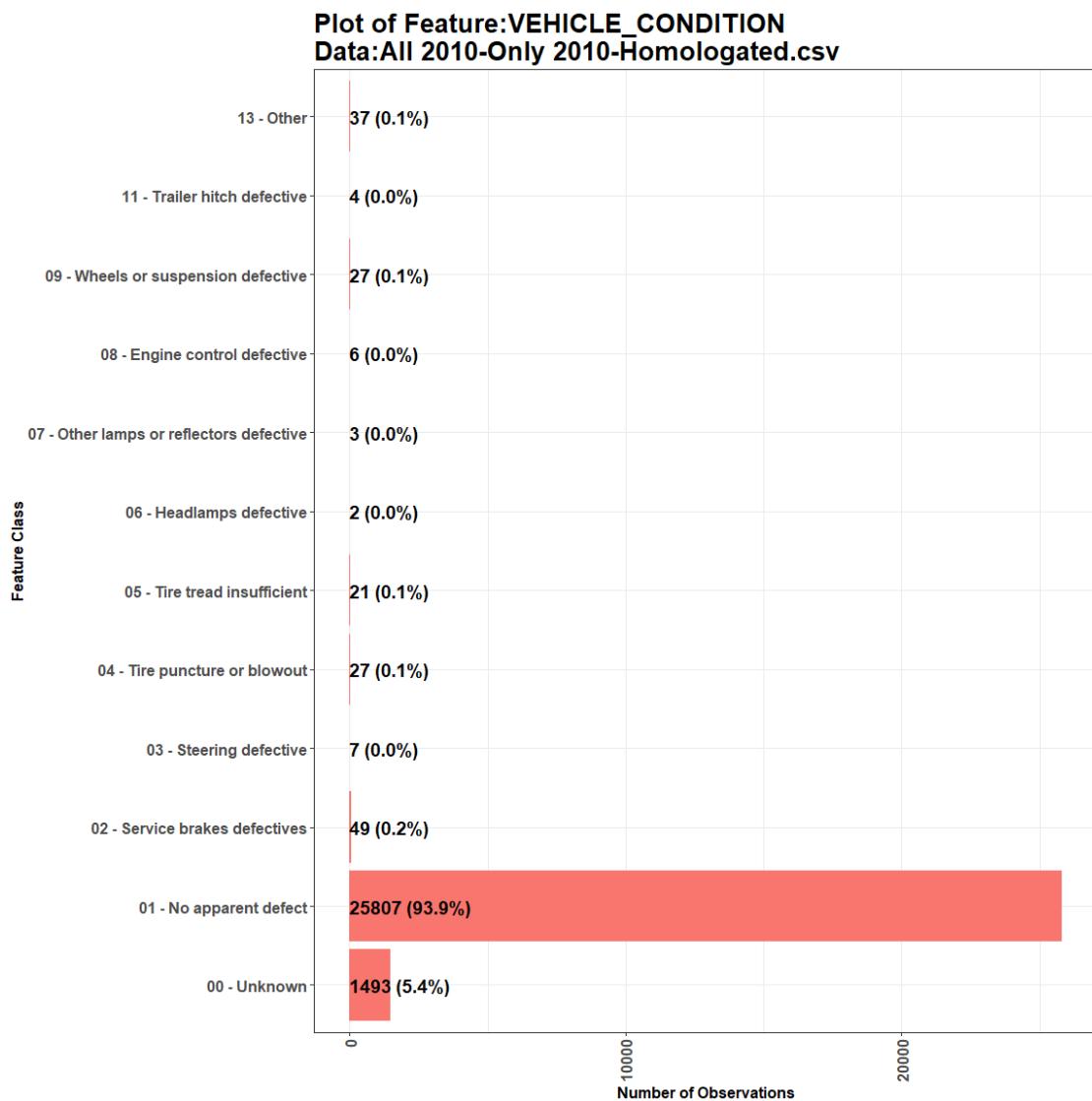


##

```

## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 12
##
## TOP 100 FEATURES OF VEHICLE_CONDITION
##
## Feature Value          Counter   Percentage
## -----
## 00 - Unknown           1493      5.4324
## 01 - No apparent defect 25807     93.9017
## 02 - Service brakes defective 49      0.1783
## 03 - Steering defective    7      0.0255
## 04 - Tire puncture or blowout 27      0.0982
## 05 - Tire tread insufficient 21      0.0764
## 06 - Headlamps defective    2      0.0073
## 07 - Other lamps or reflectors defective 3      0.0109
## 08 - Engine control defective 6      0.0218
## 09 - Wheels or suspension defective 27      0.0982
## 11 - Trailer hitch defective    4      0.0146
## 13 - Other               37      0.1346

```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 12  

##  

## TOP 100 FEATURES OF VEHICLE_CONDITION  

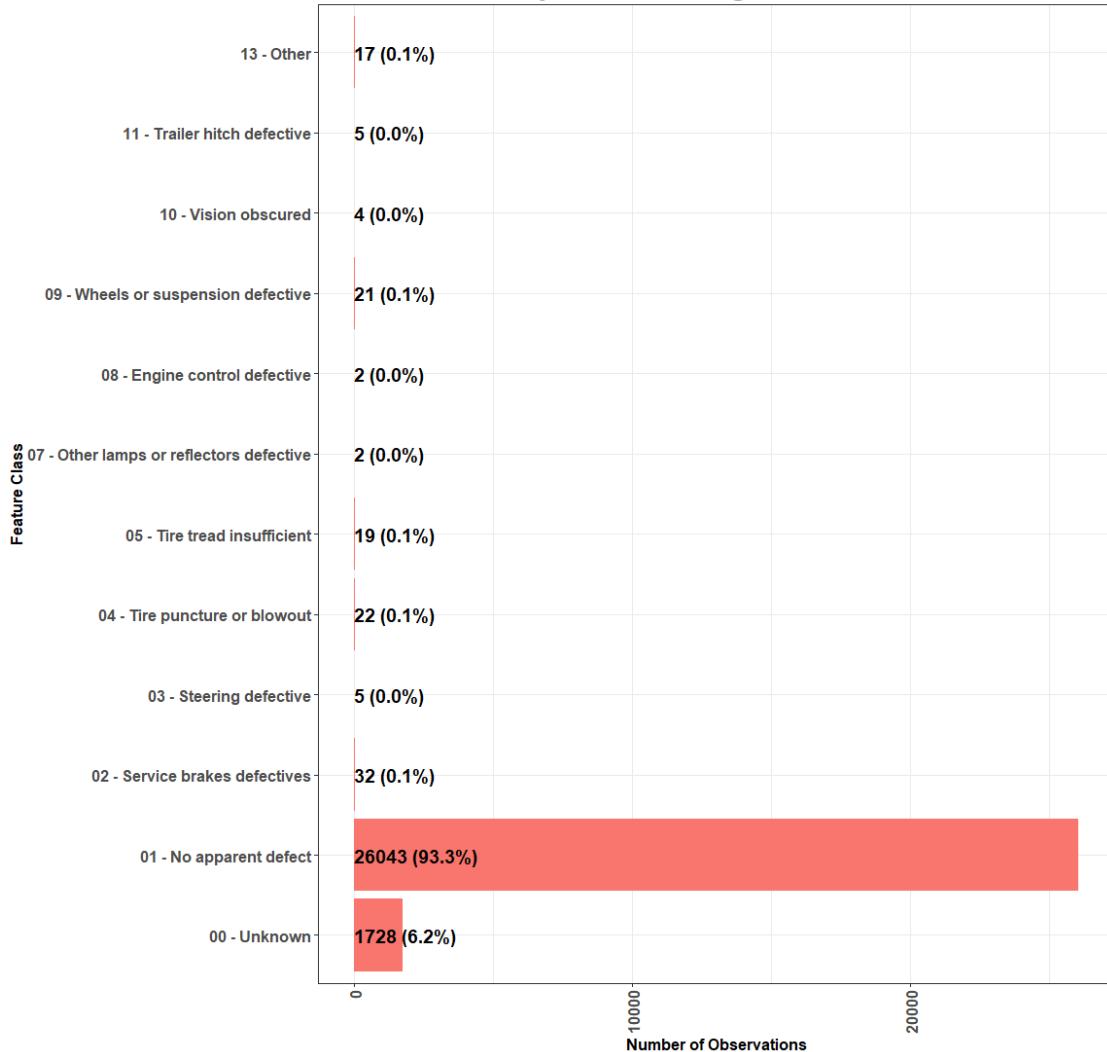
##  

## Feature Value Counter Percentage  

## -----
```

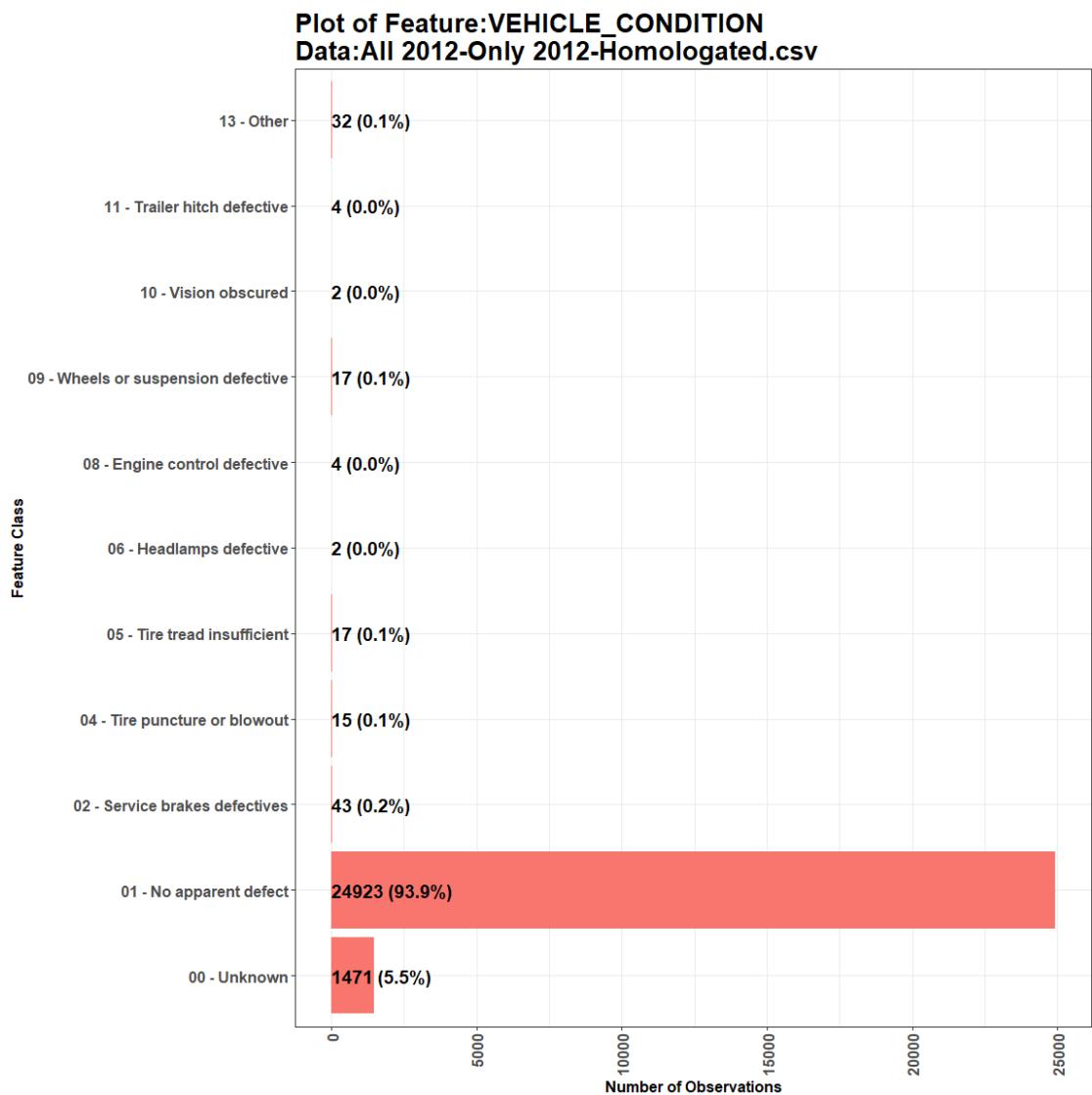
## 00 - Unknown	1728	6.1935
## 01 - No apparent defect	26043	93.3441
## 02 - Service brakes defectives	32	0.1147
## 03 - Steering defective	5	0.0179
## 04 - Tire puncture or blowout	22	0.0789
## 05 - Tire tread insufficient	19	0.0681
## 07 - Other lamps or reflectors defective	2	0.0072
## 08 - Engine control defective	2	0.0072
## 09 - Wheels or suspension defective	21	0.0753
## 10 - Vision obscured	4	0.0143
## 11 - Trailer hitch defective	5	0.0179
## 13 - Other	17	0.0609

**Plot of Feature:VEHICLE_CONDITION
Data:All 2011-Only 2011-Homologated.csv**



##

```
## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 11
##
## TOP 100 FEATURES OF VEHICLE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1471 5.5447
## 01 - No apparent defect 24923 93.9427
## 02 - Service brakes defectives 43 0.1621
## 04 - Tire puncture or blowout 15 0.0565
## 05 - Tire tread insufficient 17 0.0641
## 06 - Headlamps defective 2 0.0075
## 08 - Engine control defective 4 0.0151
## 09 - Wheels or suspension defective 17 0.0641
## 10 - Vision obscured 2 0.0075
## 11 - Trailer hitch defective 4 0.0151
## 13 - Other 32 0.1206
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 12  

##  

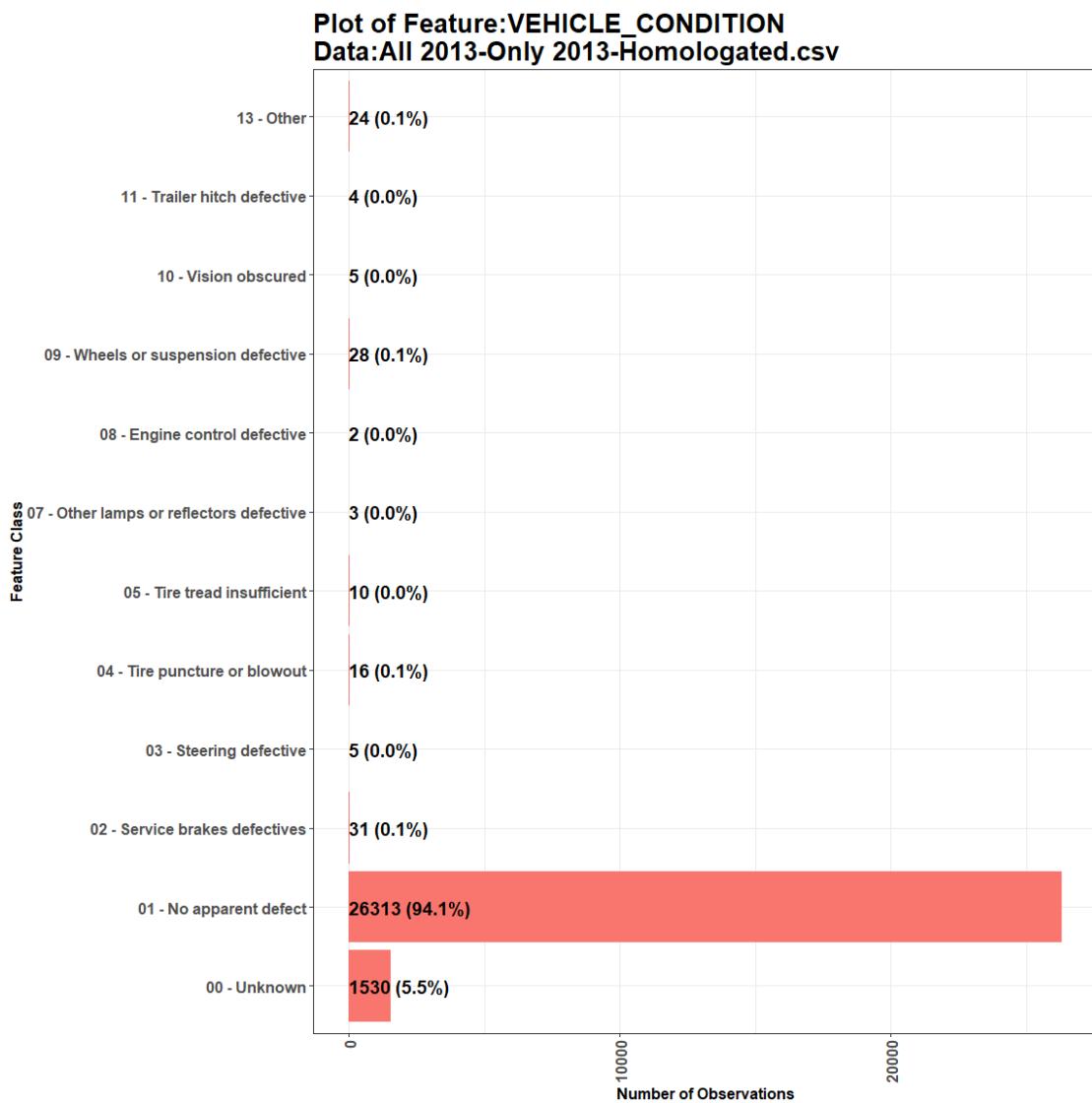
## TOP 100 FEATURES OF VEHICLE_CONDITION  

##  

## Feature Value Counter Percentage  

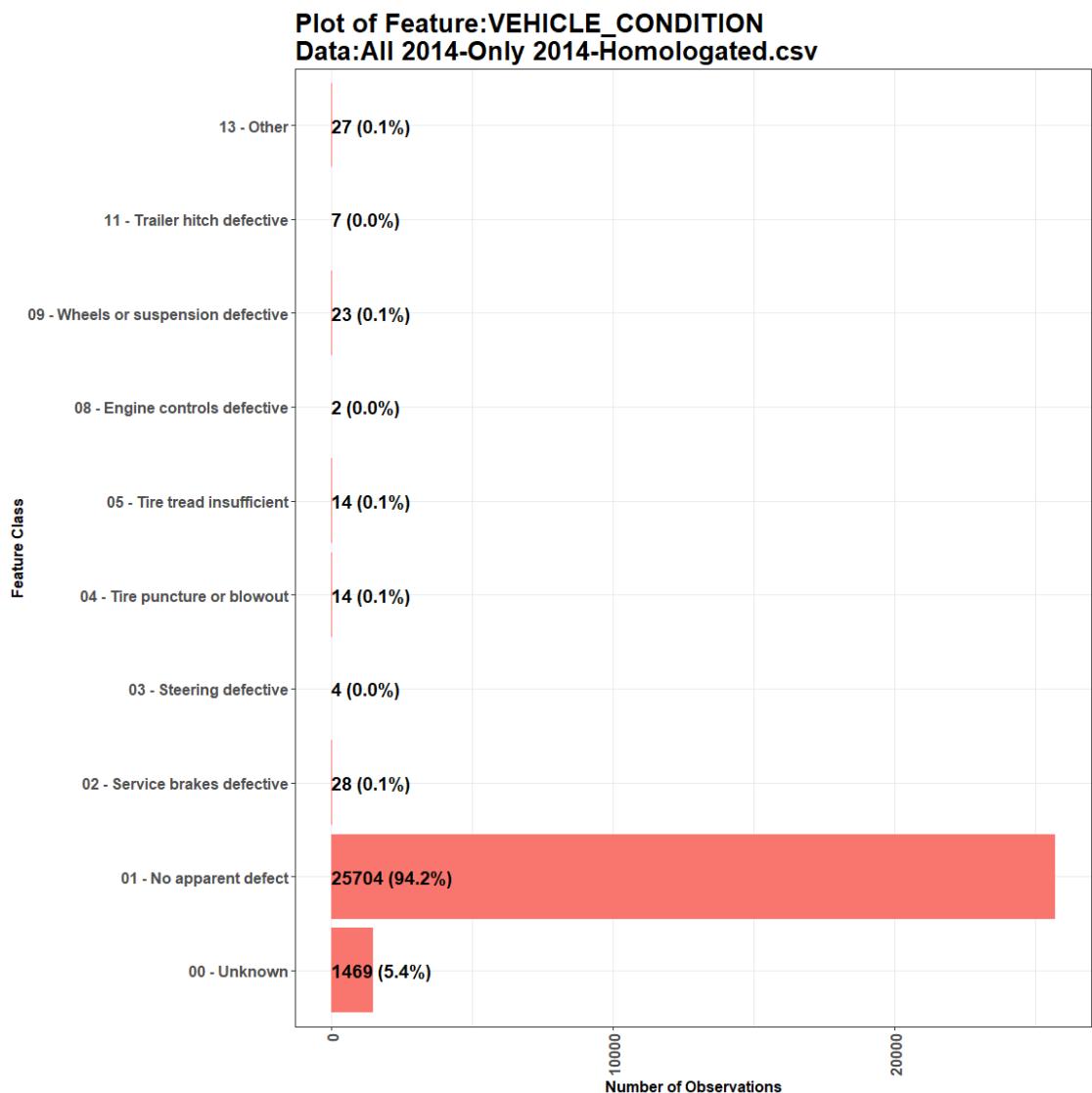
## -----
```

## 00 - Unknown	1530	5.4700
## 01 - No apparent defect	26313	94.0724
## 02 - Service brakes defectives	31	0.1108
## 03 - Steering defective	5	0.0179
## 04 - Tire puncture or blowout	16	0.0572
## 05 - Tire tread insufficient	10	0.0358
## 07 - Other lamps or reflectors defective	3	0.0107
## 08 - Engine control defective	2	0.0072
## 09 - Wheels or suspension defective	28	0.1001
## 10 - Vision obscured	5	0.0179
## 11 - Trailer hitch defective	4	0.0143
## 13 - Other	24	0.0858



```
##
##
```

```
## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 10
##
## TOP 100 FEATURES OF VEHICLE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1469 5.3825
## 01 - No apparent defect 25704 94.1814
## 02 - Service brakes defective 28 0.1026
## 03 - Steering defective 4 0.0147
## 04 - Tire puncture or blowout 14 0.0513
## 05 - Tire tread insufficient 14 0.0513
## 08 - Engine controls defective 2 0.0073
## 09 - Wheels or suspension defective 23 0.0843
## 11 - Trailer hitch defective 7 0.0256
## 13 - Other 27 0.0989
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2015-Only 2015-Homologated.csv...  

##  

## Number of Blank Values:2  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 12  

##  

## TOP 100 FEATURES OF VEHICLE_CONDITION  

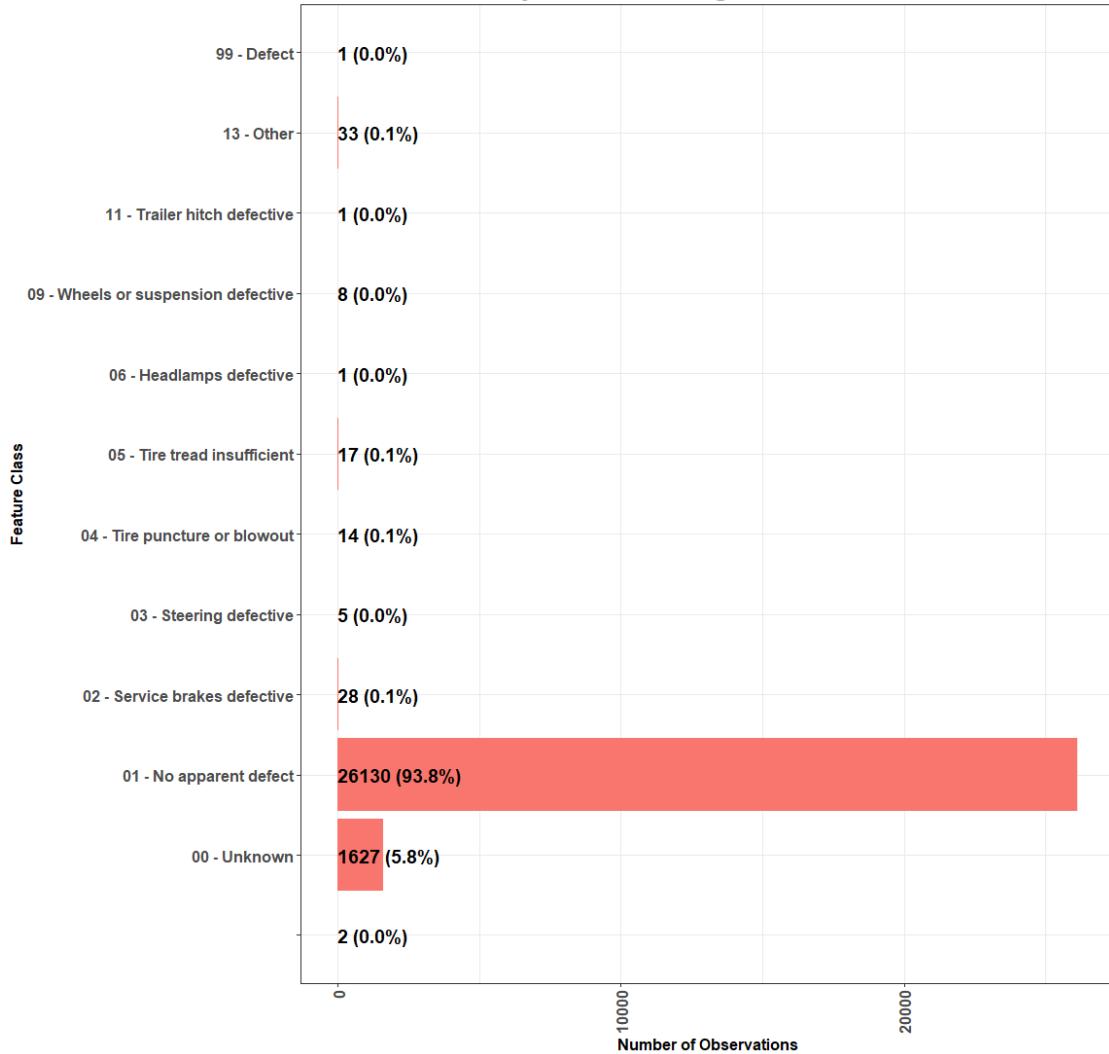
##  

## Feature Value Counter Percentage  

## -----
```

##		2	0.0072
## 00 - Unknown		1627	5.8384
## 01 - No apparent defect		26130	93.7668
## 02 - Service brakes defective		28	0.1005
## 03 - Steering defective		5	0.0179
## 04 - Tire puncture or blowout		14	0.0502
## 05 - Tire tread insufficient		17	0.0610
## 06 - Headlamps defective		1	0.0036
## 09 - Wheels or suspension defective		8	0.0287
## 11 - Trailer hitch defective		1	0.0036
## 13 - Other		33	0.1184
## 99 - Defect		1	0.0036

Plot of Feature:VEHICLE_CONDITION
Data:All 2015-Only 2015-Homologated.csv

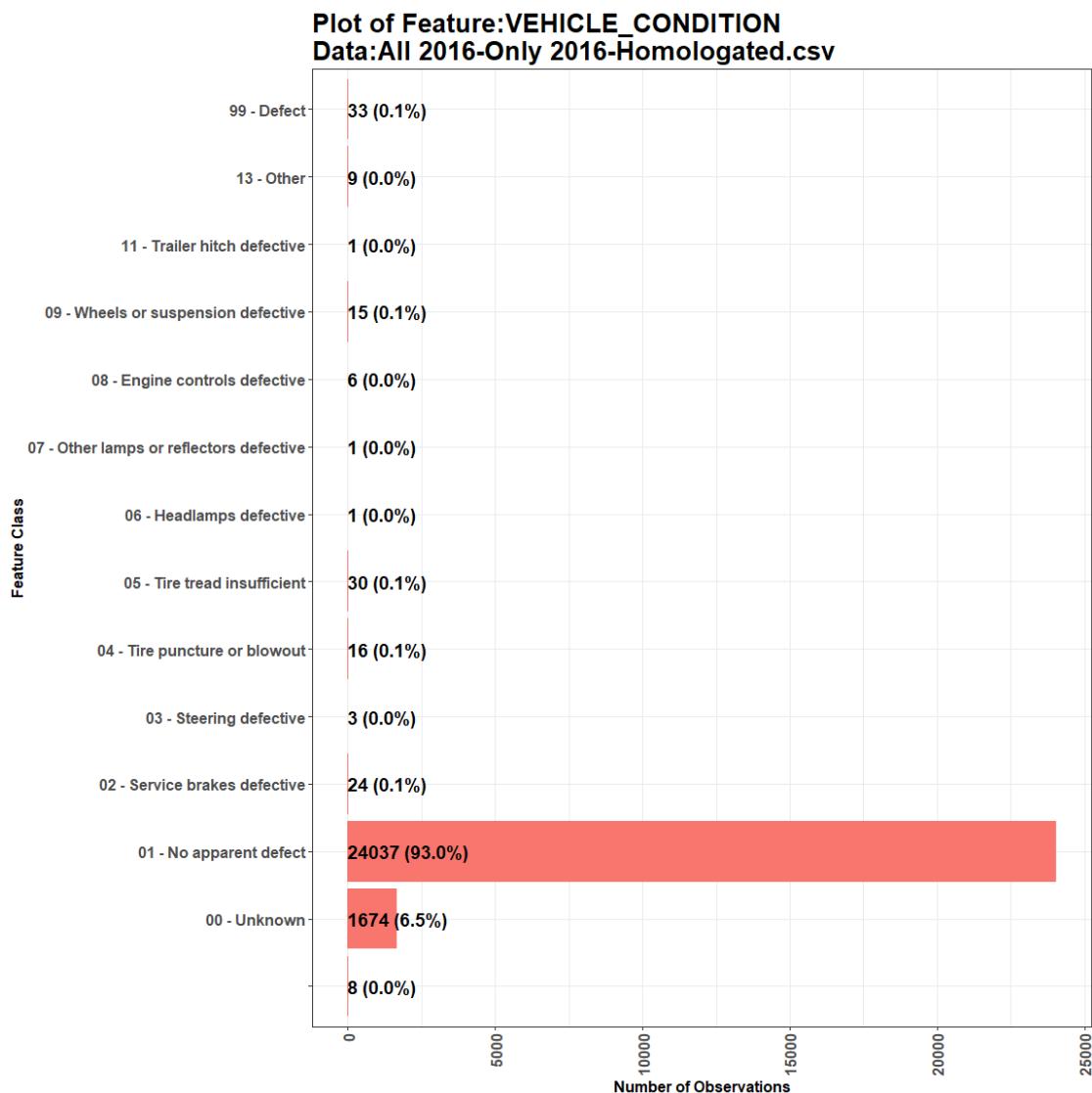


```
##  
## -----
```

```

## CHECKING FEATURE:VEHICLE_CONDITION
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:8
##
## Summary as Factor Feature:
##
## Number of Features: 14
##
## TOP 100 FEATURES OF VEHICLE_CONDITION
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 8 0.0309
## 01 - No apparent defect 1674 6.4738
## 02 - Service brakes defective 24037 92.9577
## 03 - Steering defective 24 0.0928
## 04 - Tire puncture or blowout 3 0.0116
## 05 - Tire tread insufficient 16 0.0619
## 06 - Headlamps defective 30 0.1160
## 07 - Other lamps or reflectors defective 1 0.0039
## 08 - Engine controls defective 1 0.0039
## 09 - Wheels or suspension defective 6 0.0232
## 11 - Trailer hitch defective 15 0.0580
## 13 - Other 1 0.0039
## 99 - Defect 9 0.0348
## 33 0.1276

```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_CONDITION  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 11  

##  

## TOP 100 FEATURES OF VEHICLE_CONDITION  

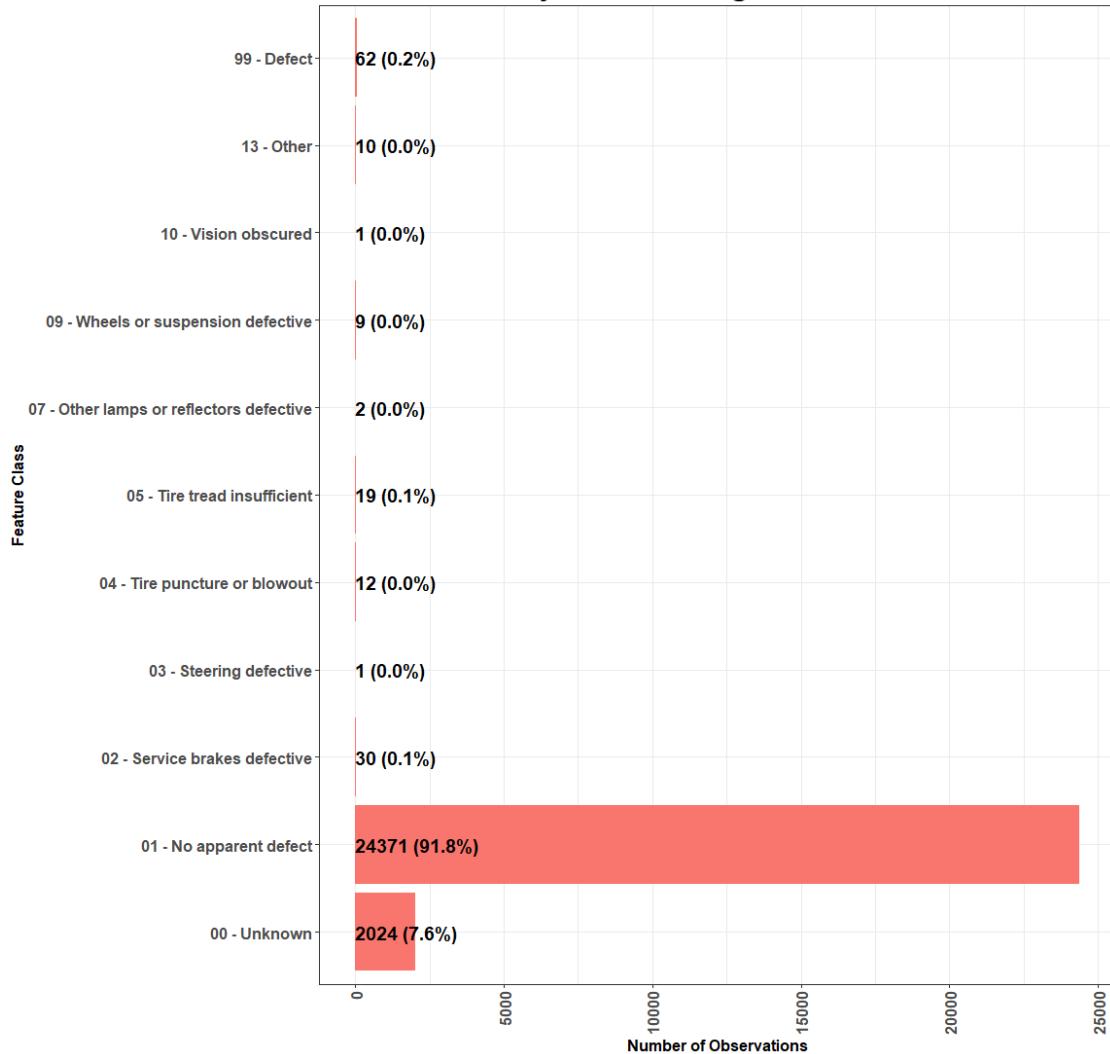
##  

## Feature Value Counter Percentage  

## -----
```

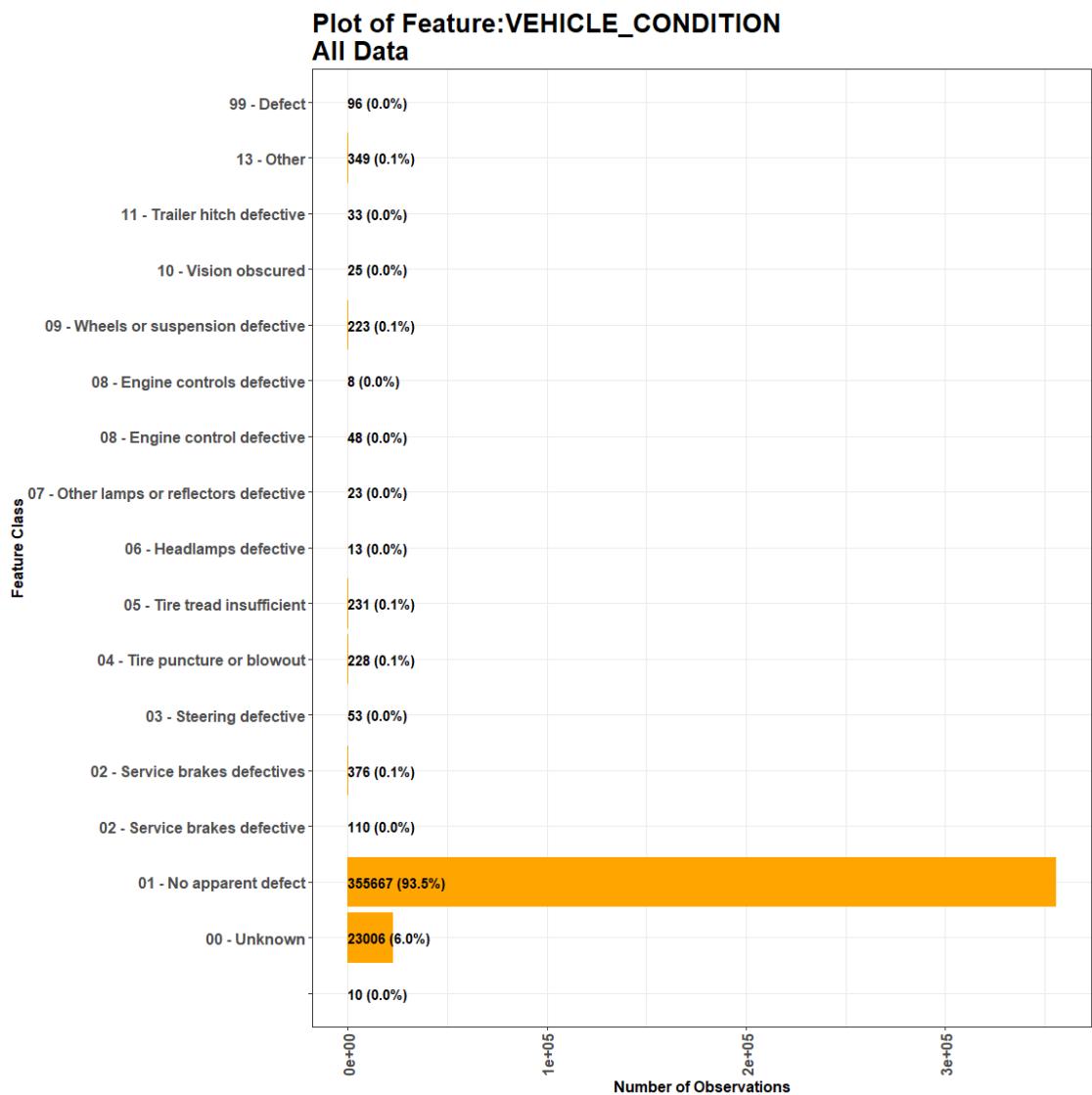
## 00 - Unknown	2024	7.6259
## 01 - No apparent defect	24371	91.8240
## 02 - Service brakes defective	30	0.1130
## 03 - Steering defective	1	0.0038
## 04 - Tire puncture or blowout	12	0.0452
## 05 - Tire tread insufficient	19	0.0716
## 07 - Other lamps or reflectors defective	2	0.0075
## 09 - Wheels or suspension defective	9	0.0339
## 10 - Vision obscured	1	0.0038
## 13 - Other	10	0.0377
## 99 - Defect	62	0.2336

**Plot of Feature:VEHICLE_CONDITION
Data:All 2017-Only 2017-Homologated.csv**



```
##
## =====
## FINAL INFO CHECKING FEATURE:VEHICLE_CONDITION
```

```
## ALL DATA...
## =====
## 
## Number of Blank Values:10
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 25669 26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 26073 27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 28502 28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 27483 27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 26530 27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 27292 27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 25858 26541
##
## 
## Summary as Factor Feature:
## Number of Features: 17
```



```
## [1] "TOP 100 FEATURES COUNTERS OF:VEHICLE_CONDITION"
```

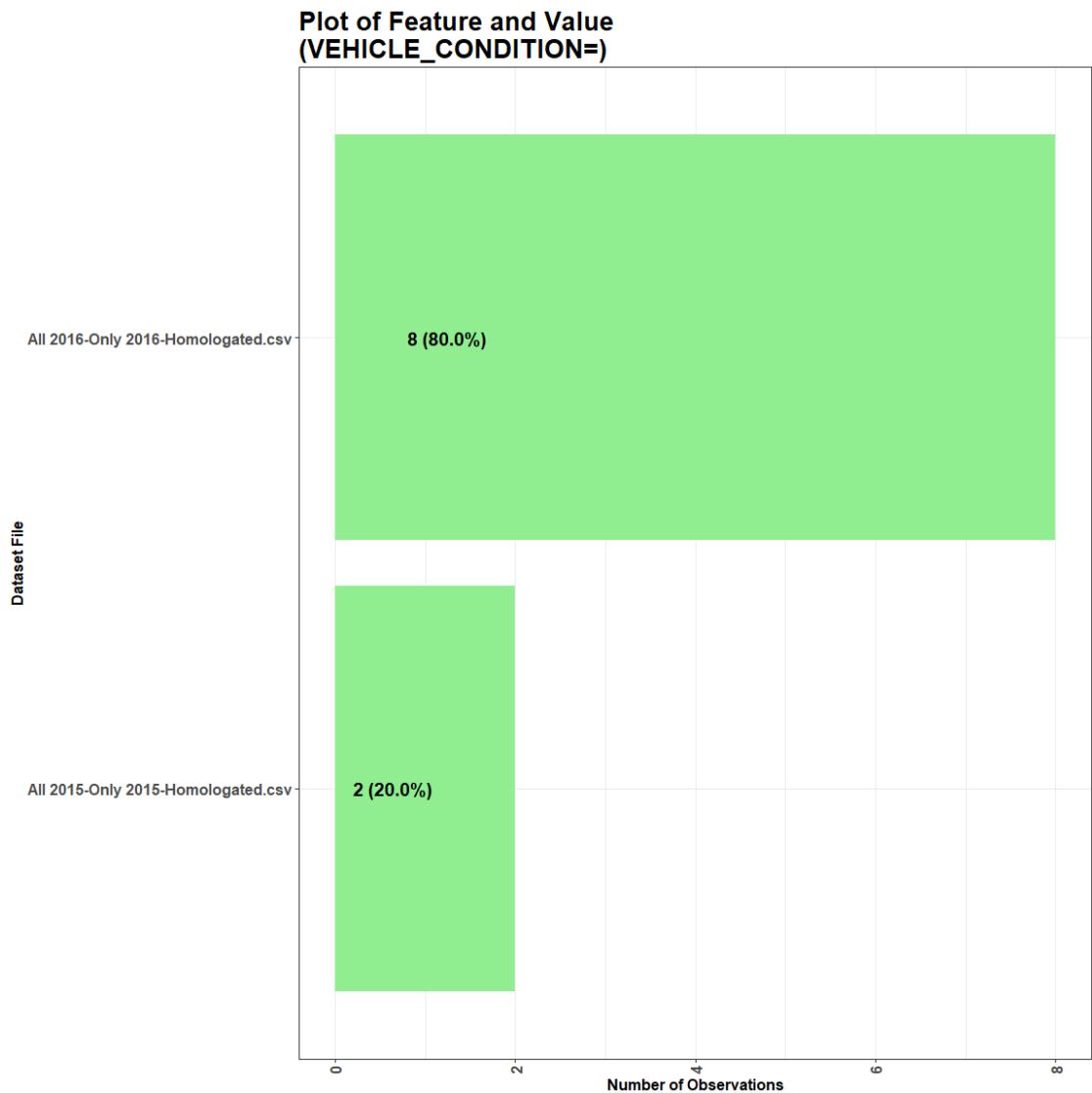
Feature Value	Counter	Percentage
	10	0.0026
00 - Unknown	23006	6.0463
01 - No apparent defect	355667	93.4738
02 - Service brakes defective	110	0.0289
02 - Service brakes defectives	376	0.0988
03 - Steering defective	53	0.0139
04 - Tire puncture or blowout	228	0.0599
05 - Tire tread insufficient	231	0.0607
06 - Headlamps defective	13	0.0034



07 - Other lamps or reflectors defective	23	0.0060
08 - Engine control defective	48	0.0126
08 - Engine controls defective	8	0.0021
09 - Wheels or suspension defective	223	0.0586
10 - Vision obscured	25	0.0066
11 - Trailer hitch defective	33	0.0087
13 - Other	349	0.0917
99 - Defect	96	0.0252

24.1 VEHICLE_CONDITION = "" (Blank)

```
##  
## ======  
## CHECKING FEATURE AND VALUE (VEHICLE_CONDITION=)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv All 2016-Only 2016-Homologated.csv  
## 2 8
```

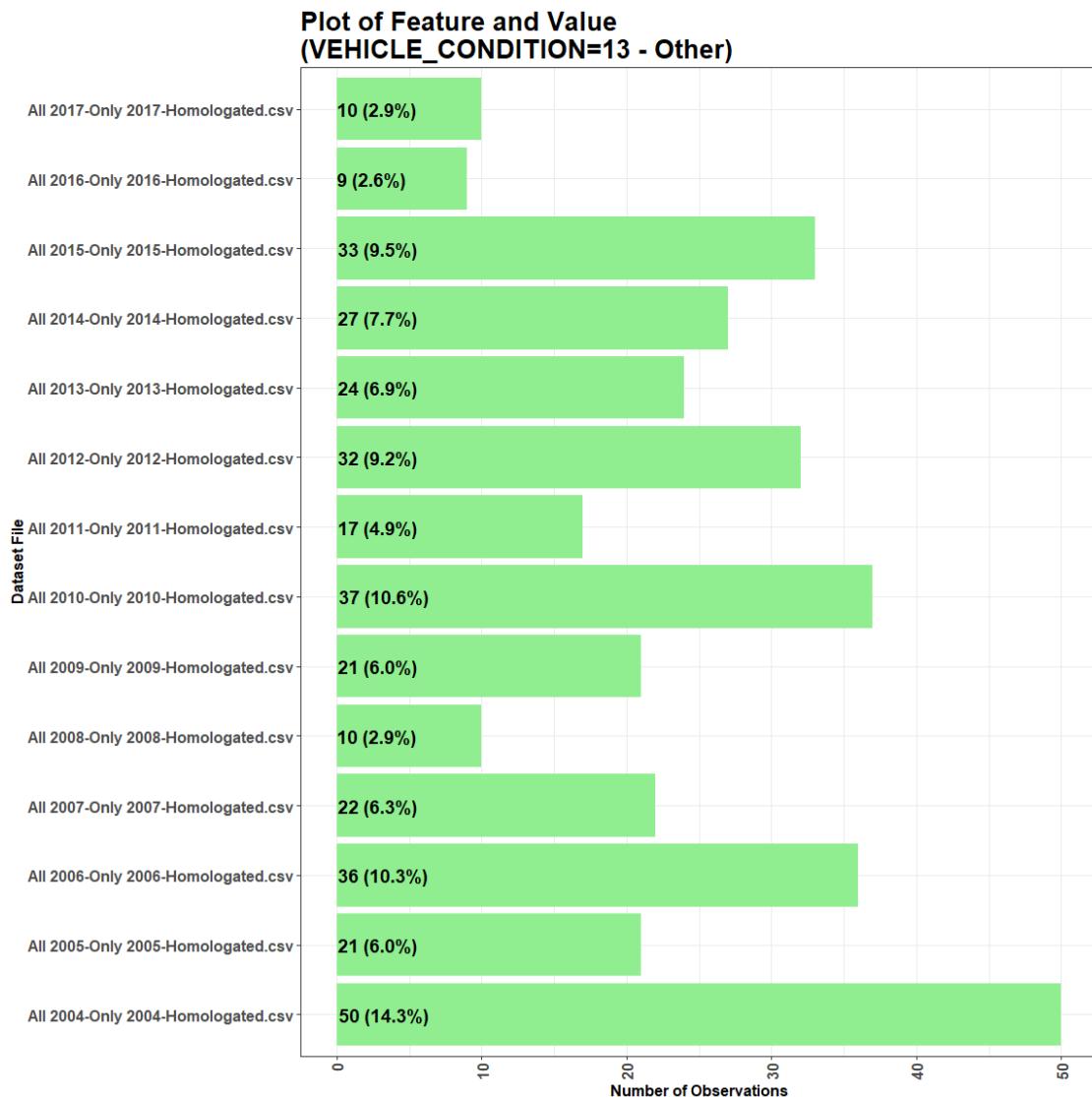


DATASET FILE	COUNTER OF (VEHICLE_CONDITION=)	Percentage
All 2015-Only 2015-Homologated.csv	2	20
All 2016-Only 2016-Homologated.csv	8	80

24.2 VEHICLE_CONDITION = “13 - Other”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (VEHICLE_CONDITION=13 - Other)  
##  
## Summary per Data File:
```

```
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                                     50                               21
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                                     36                               22
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                                     10                               21
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                                     37                               17
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                                     32                               24
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                                     27                               33
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                                     9                                10
##
```

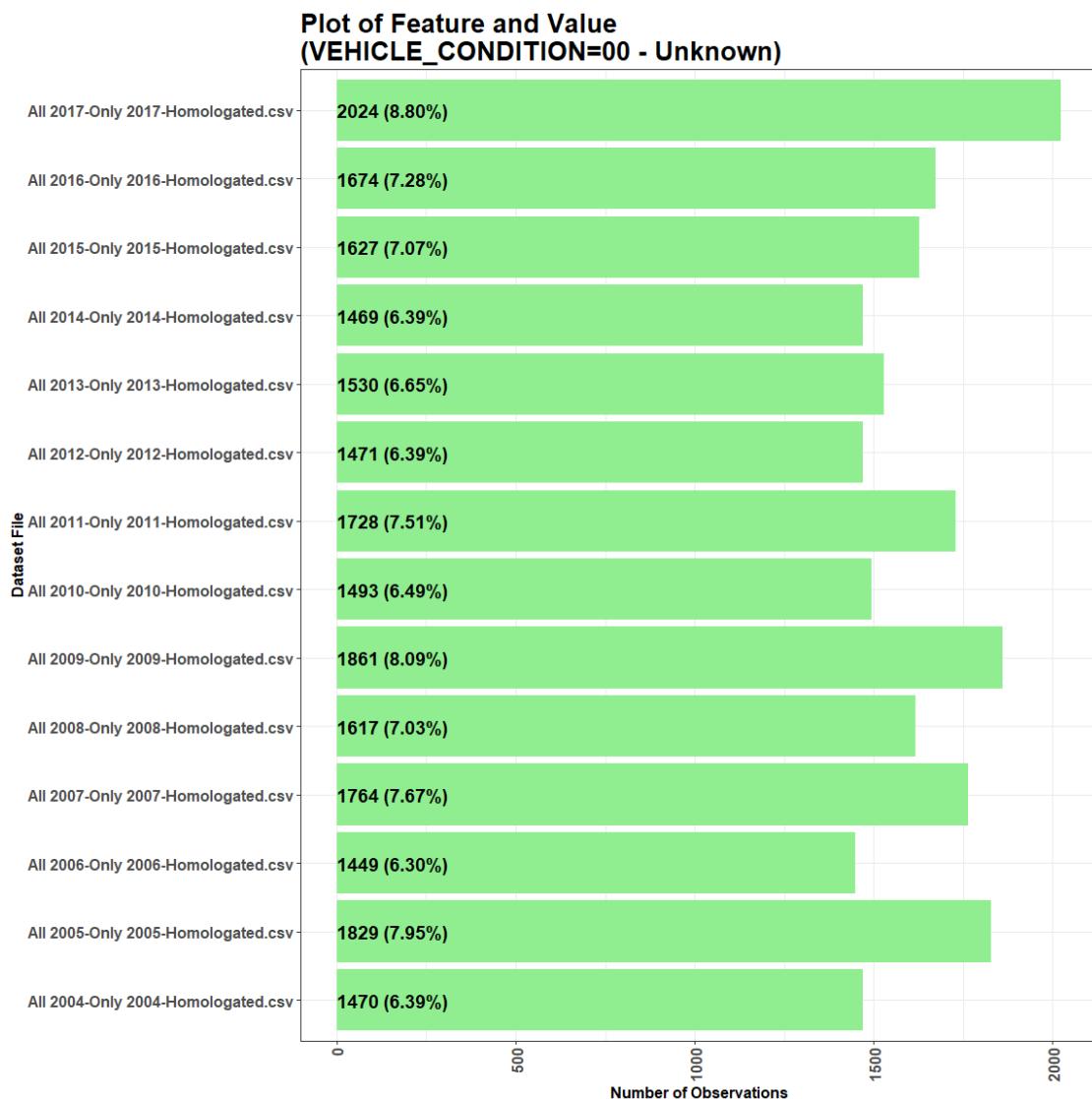


DATASET FILE	COUNTER OF (VEHICLE_CONDITION=13 - Other)		Percentage
		Other	
All 2004-Only 2004-Homologated.csv		50	14.327
All 2005-Only 2005-Homologated.csv		21	6.017
All 2006-Only 2006-Homologated.csv		36	10.315
All 2007-Only 2007-Homologated.csv		22	6.304
All 2008-Only 2008-Homologated.csv		10	2.865
All 2009-Only 2009-Homologated.csv		21	6.017
All 2010-Only 2010-Homologated.csv		37	10.602
All 2011-Only 2011-Homologated.csv		17	4.871
All 2012-Only 2012-Homologated.csv		32	9.169
All 2013-Only 2013-Homologated.csv		24	6.877
All 2014-Only 2014-Homologated.csv		27	7.736
All 2015-Only 2015-Homologated.csv		33	9.456
All 2016-Only 2016-Homologated.csv		9	2.579
All 2017-Only 2017-Homologated.csv		10	2.865

24.3 VEHICLE CONDITION = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (VEHICLE_CONDITION=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 1470 1829  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 1449 1764
```

```
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 1617 1861
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 1493 1728
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 1471 1530
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 1469 1627
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 1674 2024
```

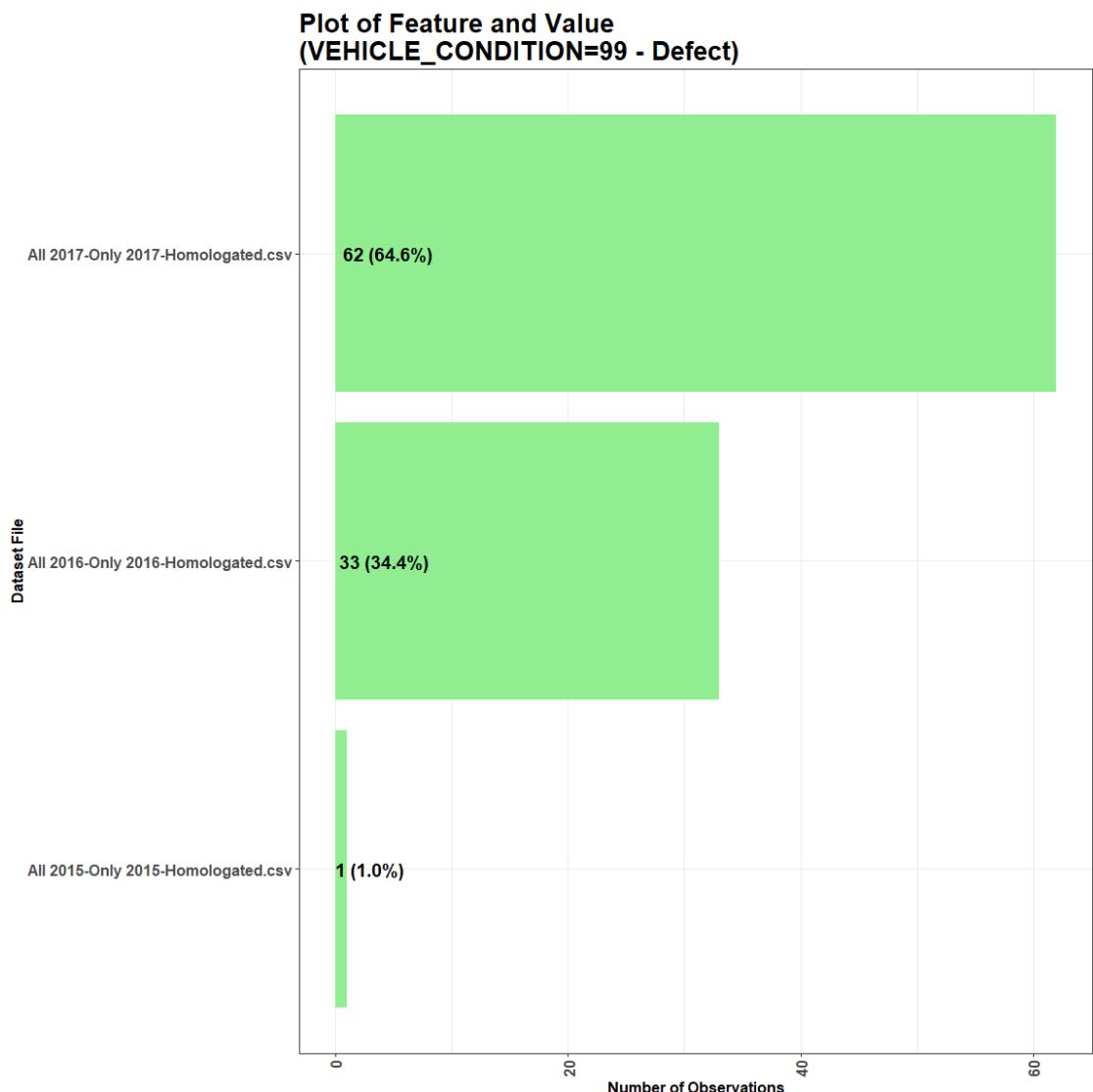


DATASET FILE	COUNTER OF (VEHICLE_CONDITION=00 - Unknown)	Percentage
All 2004-Only 2004-	1470	6.390

Homologated.csv		
All 2005-Only 2005-Homologated.csv	1829	7.950
All 2006-Only 2006-Homologated.csv	1449	6.298
All 2007-Only 2007-Homologated.csv	1764	7.668
All 2008-Only 2008-Homologated.csv	1617	7.029
All 2009-Only 2009-Homologated.csv	1861	8.089
All 2010-Only 2010-Homologated.csv	1493	6.490
All 2011-Only 2011-Homologated.csv	1728	7.511
All 2012-Only 2012-Homologated.csv	1471	6.394
All 2013-Only 2013-Homologated.csv	1530	6.650
All 2014-Only 2014-Homologated.csv	1469	6.385
All 2015-Only 2015-Homologated.csv	1627	7.072
All 2016-Only 2016-Homologated.csv	1674	7.276
All 2017-Only 2017-Homologated.csv	2024	8.798

24.4 VEHICLE_CONDITION = "99 - Defect"

```
##
## =====
## CHECKING FEATURE AND VALUE (VEHICLE_CONDITION=99 - Defect)
##
## Summary per Data File:
## All 2015-Only 2015-Homologated.csv All 2016-Only 2016-Homologated.csv
## 1 33
## All 2017-Only 2017-Homologated.csv
## 62
```



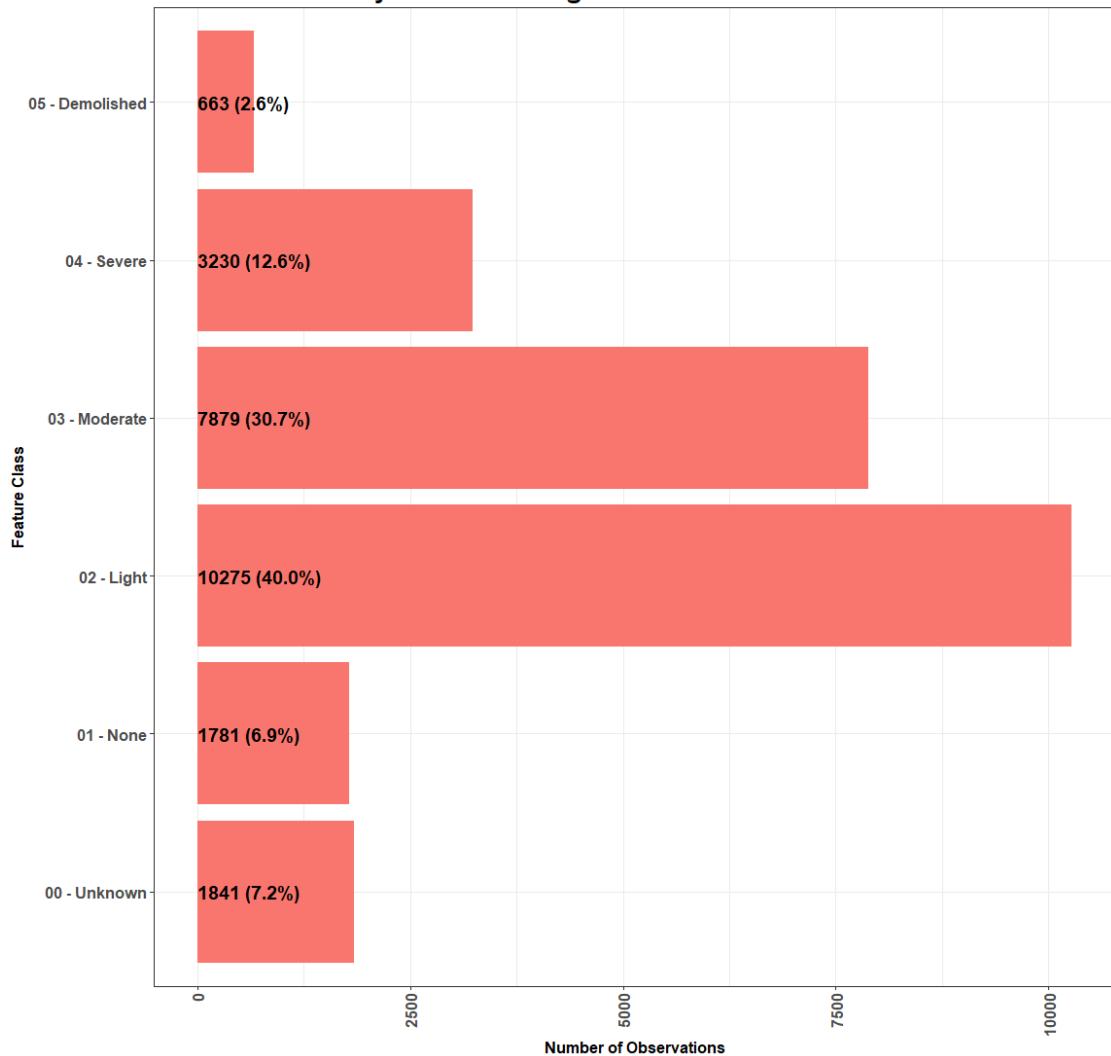
DATASET FILE	COUNTER OF (VEHICLE_CONDITION=99 - Defect)	Percentage
All 2015-Only 2015-Homologated.csv	1	1.042
All 2016-Only 2016-Homologated.csv	33	34.375
All 2017-Only 2017-Homologated.csv	62	64.583

25. Vehicle Damage (VEHICLE_DAMAGE)

```
##  
## -----
```

```
## CHECKING FEATURE:VEHICLE_DAMAGE
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 6
##
## TOP 100 FEATURES OF VEHICLE_DAMAGE
##
## Feature Value      Counter      Percentage
## -----  -----
## 00 - Unknown      1841       7.172
## 01 - None          1781       6.938
## 02 - Light         10275      40.029
## 03 - Moderate      7879       30.695
## 04 - Severe         3230       12.583
## 05 - Demolished     663        2.583
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2004-Only 2004-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_DAMAGE  

## DATA:All 2005-Only 2005-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF VEHICLE_DAMAGE  

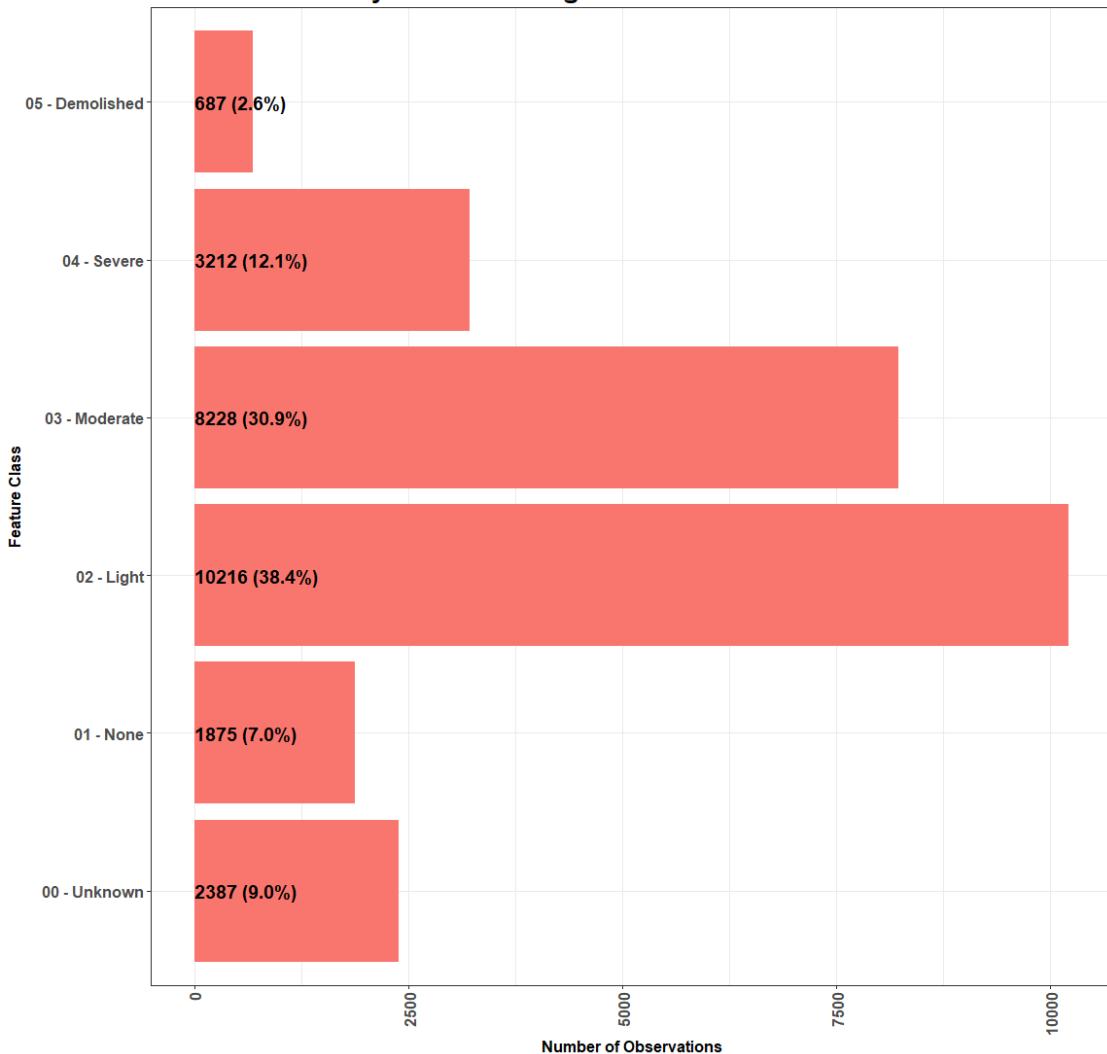
##  

## Feature Value      Counter      Percentage  

## -----
```

## 00 - Unknown	2387	8.972
## 01 - None	1875	7.048
## 02 - Light	10216	38.399
## 03 - Moderate	8228	30.927
## 04 - Severe	3212	12.073
## 05 - Demolished	687	2.582

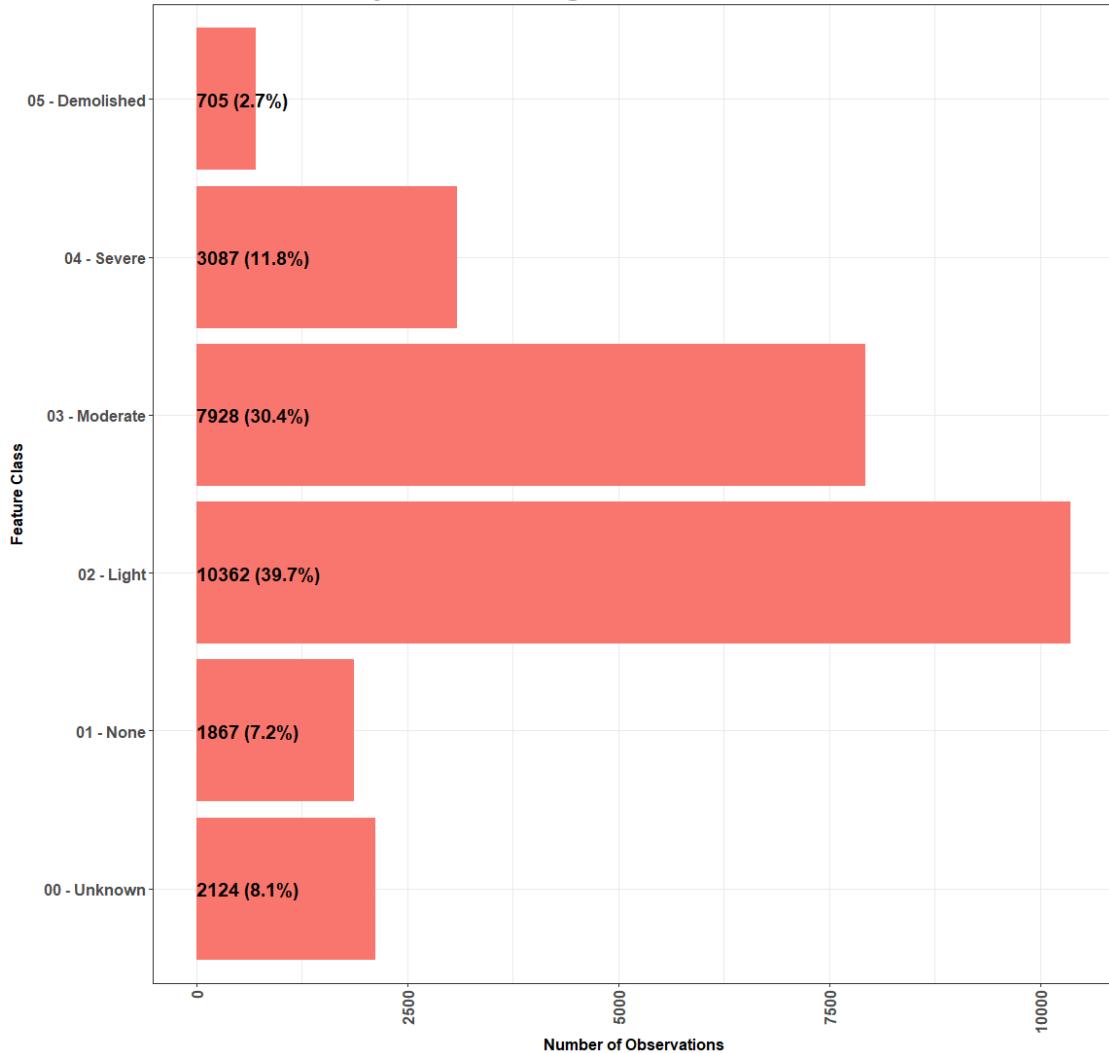
Plot of Feature:VEHICLE_DAMAGE
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_DAMAGE
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
```

```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF VEHICLE_DAMAGE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown      2124    8.146
## 01 - None         1867    7.161
## 02 - Light        10362   39.742
## 03 - Moderate     7928    30.407
## 04 - Severe       3087    11.840
## 05 - Demolished   705     2.704
```

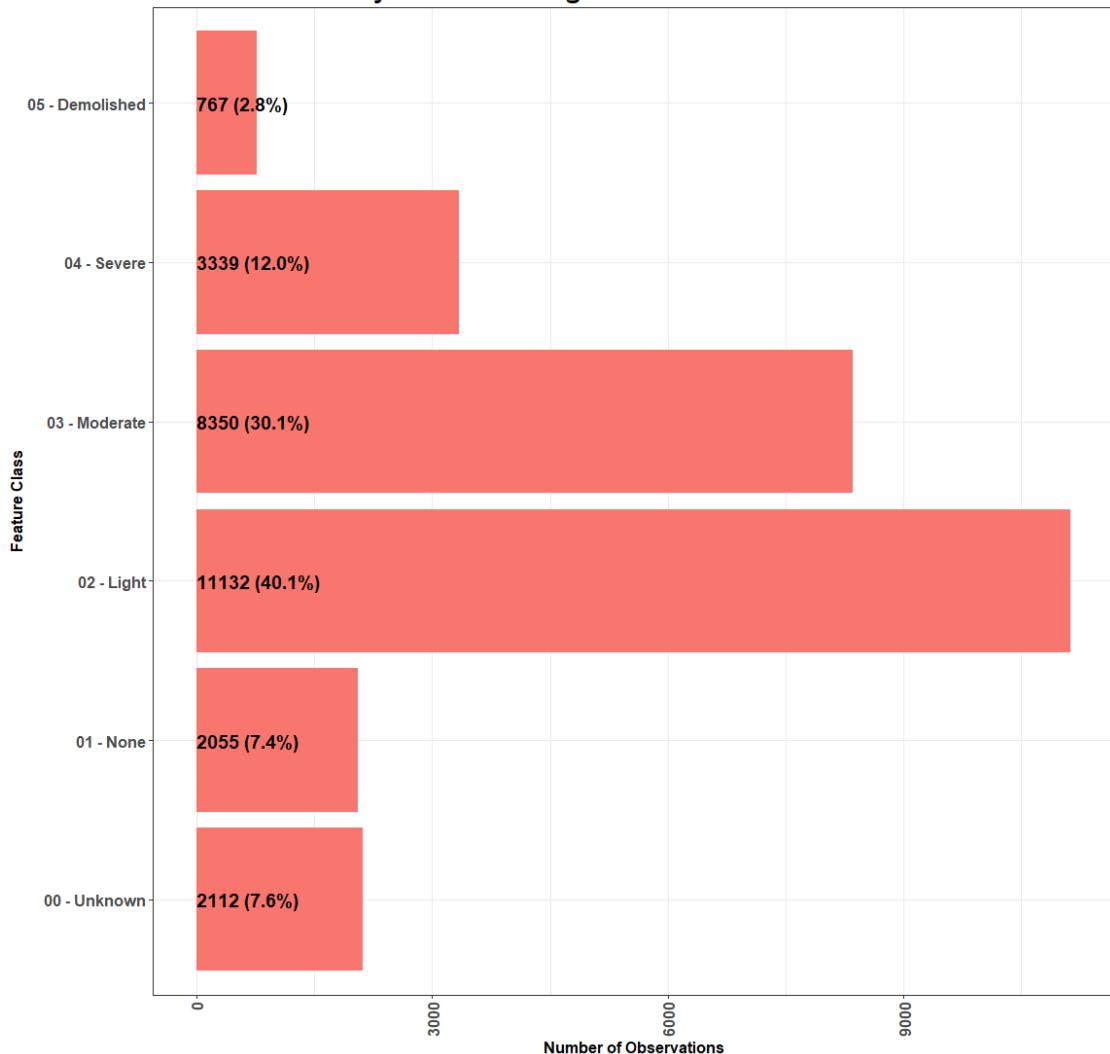
Plot of Feature:VEHICLE_DAMAGE
Data:All 2006-Only 2006-Homologated.csv





```
##  
## -----  
## CHECKING FEATURE:VEHICLE_DAMAGE  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF VEHICLE_DAMAGE  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2112 7.609  
## 01 - None 2055 7.404  
## 02 - Light 11132 40.108  
## 03 - Moderate 8350 30.085  
## 04 - Severe 3339 12.030  
## 05 - Demolished 767 2.764
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2007-Only 2007-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_DAMAGE  

## DATA:All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF VEHICLE_DAMAGE  

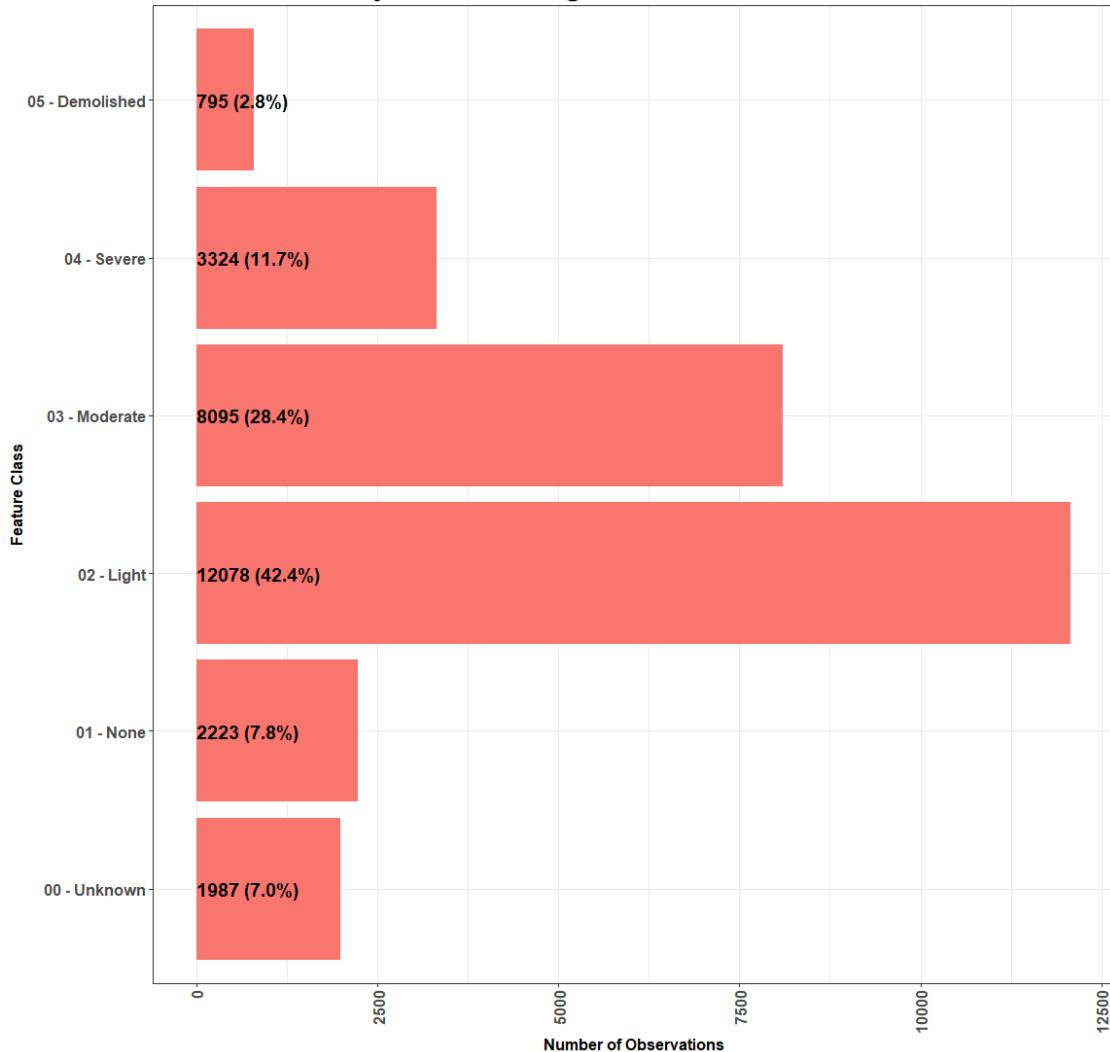
##  

## Feature Value      Counter      Percentage  

## -----
```

## 00 - Unknown	1987	6.971
## 01 - None	2223	7.800
## 02 - Light	12078	42.376
## 03 - Moderate	8095	28.401
## 04 - Severe	3324	11.662
## 05 - Demolished	795	2.789

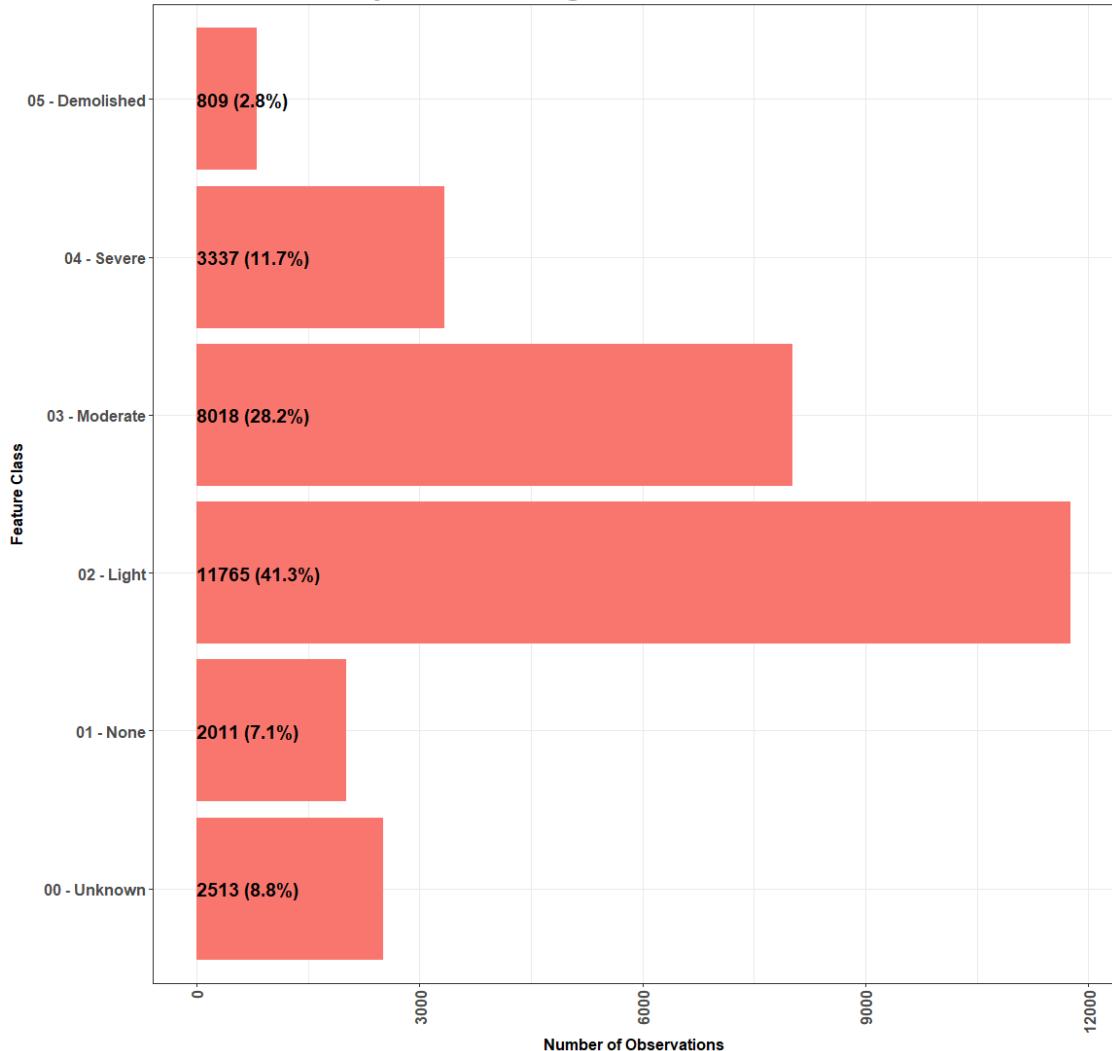
Plot of Feature:VEHICLE_DAMAGE
Data:All 2008-Only 2008-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_DAMAGE
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
```

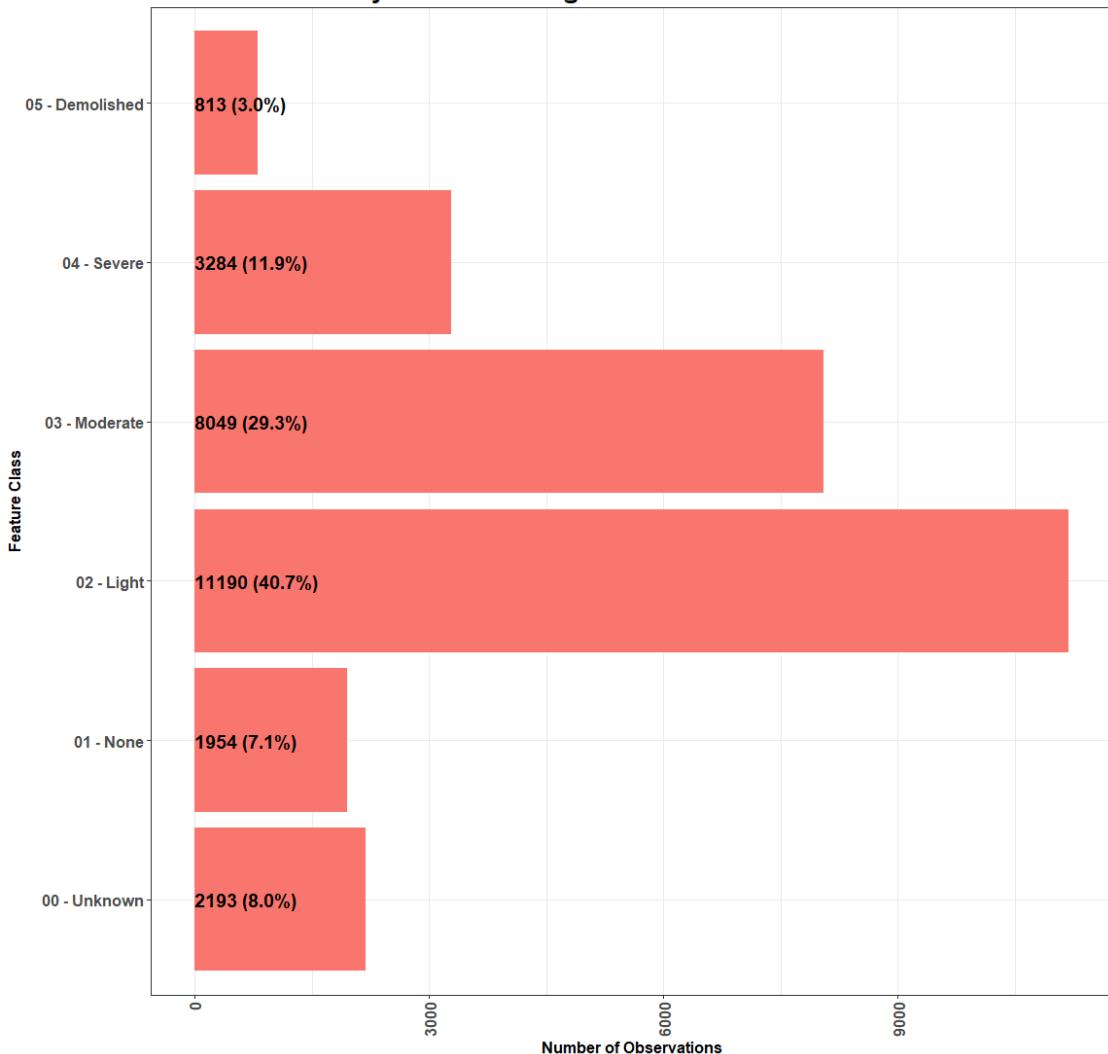
```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF VEHICLE_DAMAGE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown      2513    8.832
## 01 - None         2011    7.068
## 02 - Light        11765   41.349
## 03 - Moderate     8018    28.180
## 04 - Severe       3337    11.728
## 05 - Demolished   809     2.843
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2009-Only 2009-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:VEHICLE_DAMAGE  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF VEHICLE_DAMAGE  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2193 7.979  
## 01 - None 1954 7.110  
## 02 - Light 11190 40.716  
## 03 - Moderate 8049 29.287  
## 04 - Severe 3284 11.949  
## 05 - Demolished 813 2.958
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2010-Only 2010-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_DAMAGE  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF VEHICLE_DAMAGE  

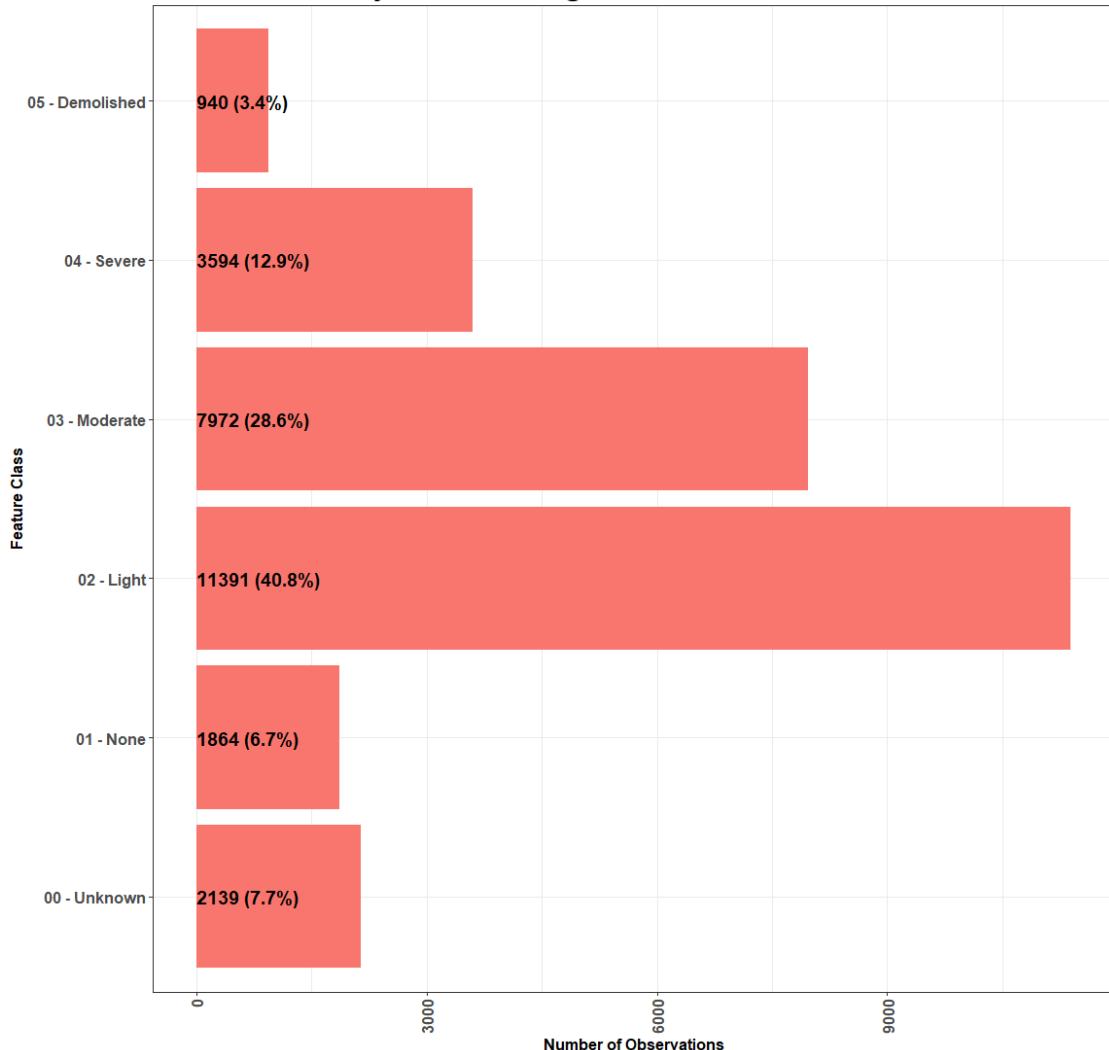
##  

## Feature Value      Counter      Percentage  

## -----
```

## 00 - Unknown	2139	7.667
## 01 - None	1864	6.681
## 02 - Light	11391	40.828
## 03 - Moderate	7972	28.573
## 04 - Severe	3594	12.882
## 05 - Demolished	940	3.369

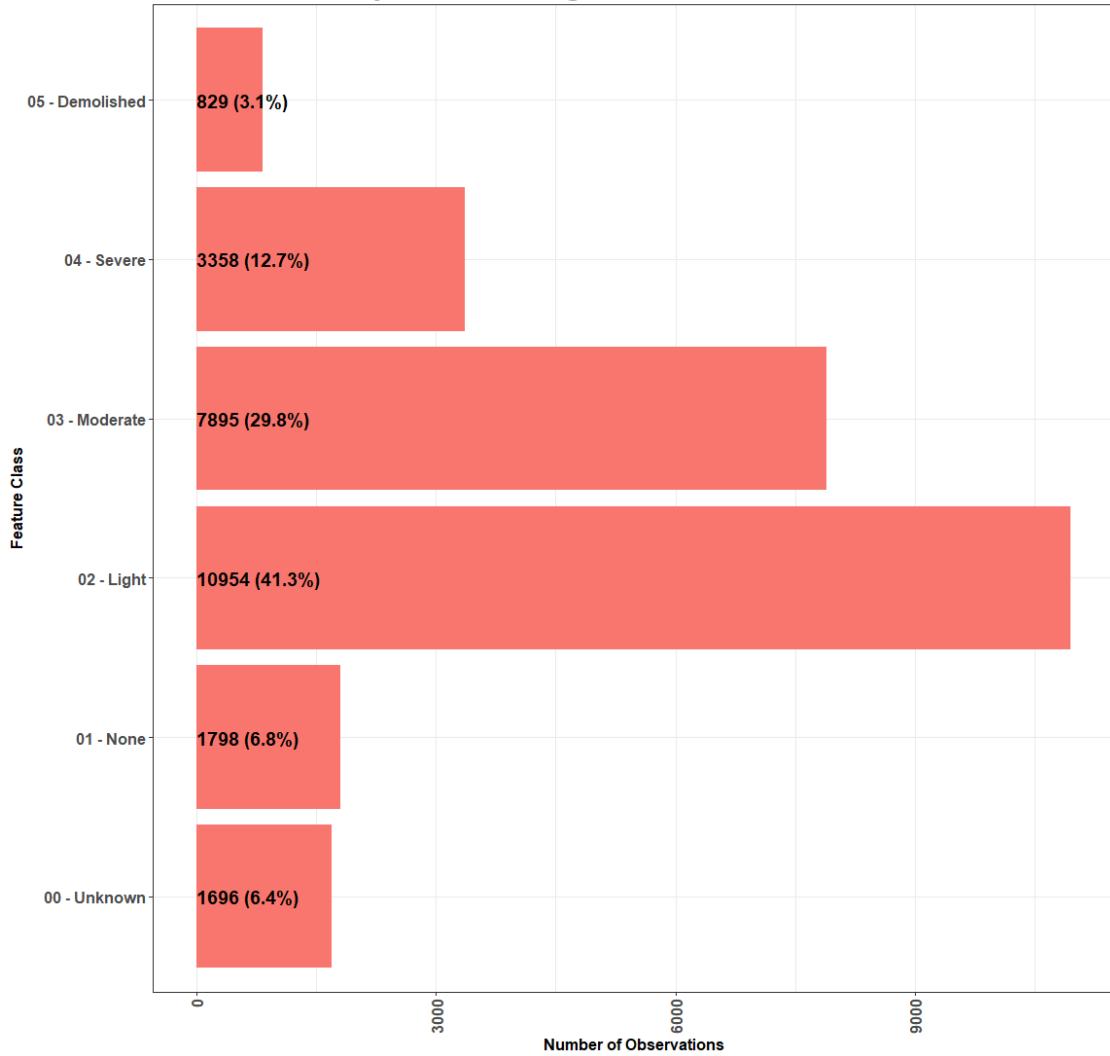
Plot of Feature:VEHICLE_DAMAGE
Data:All 2011-Only 2011-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_DAMAGE
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
```

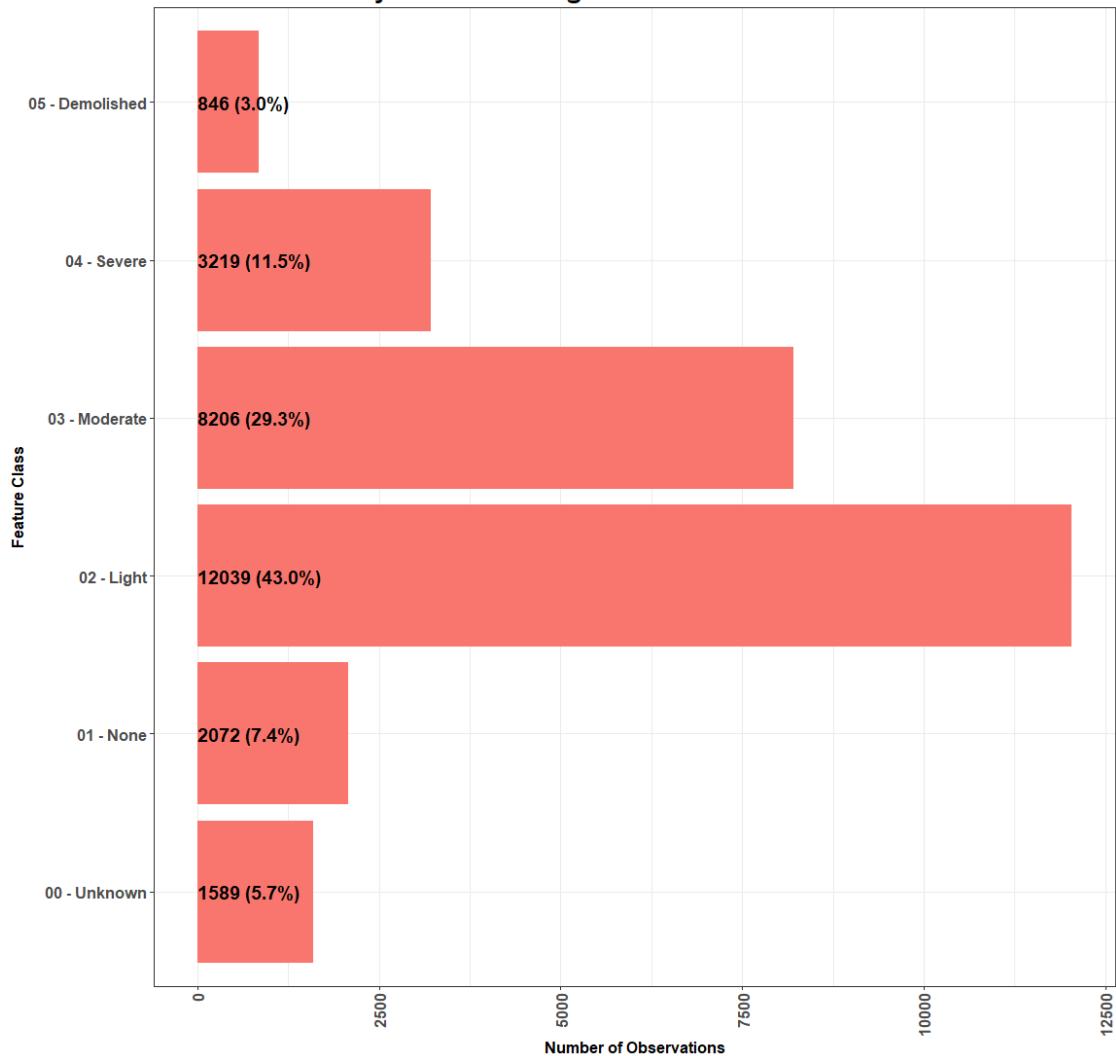
```
##
## Number of Features: 6
##
## TOP 100 FEATURES OF VEHICLE_DAMAGE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1696 6.393
## 01 - None 1798 6.777
## 02 - Light 10954 41.289
## 03 - Moderate 7895 29.759
## 04 - Severe 3358 12.657
## 05 - Demolished 829 3.125
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2012-Only 2012-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:VEHICLE_DAMAGE  
## DATA:All 2013-Only 2013-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF VEHICLE_DAMAGE  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1589 5.681  
## 01 - None 2072 7.408  
## 02 - Light 12039 43.041  
## 03 - Moderate 8206 29.337  
## 04 - Severe 3219 11.508  
## 05 - Demolished 846 3.025
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2013-Only 2013-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_DAMAGE  

## DATA:All 2014-Only 2014-Homologated.csv...  

##  

## Number of Blank Values:1  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 7  

##  

## TOP 100 FEATURES OF VEHICLE_DAMAGE  

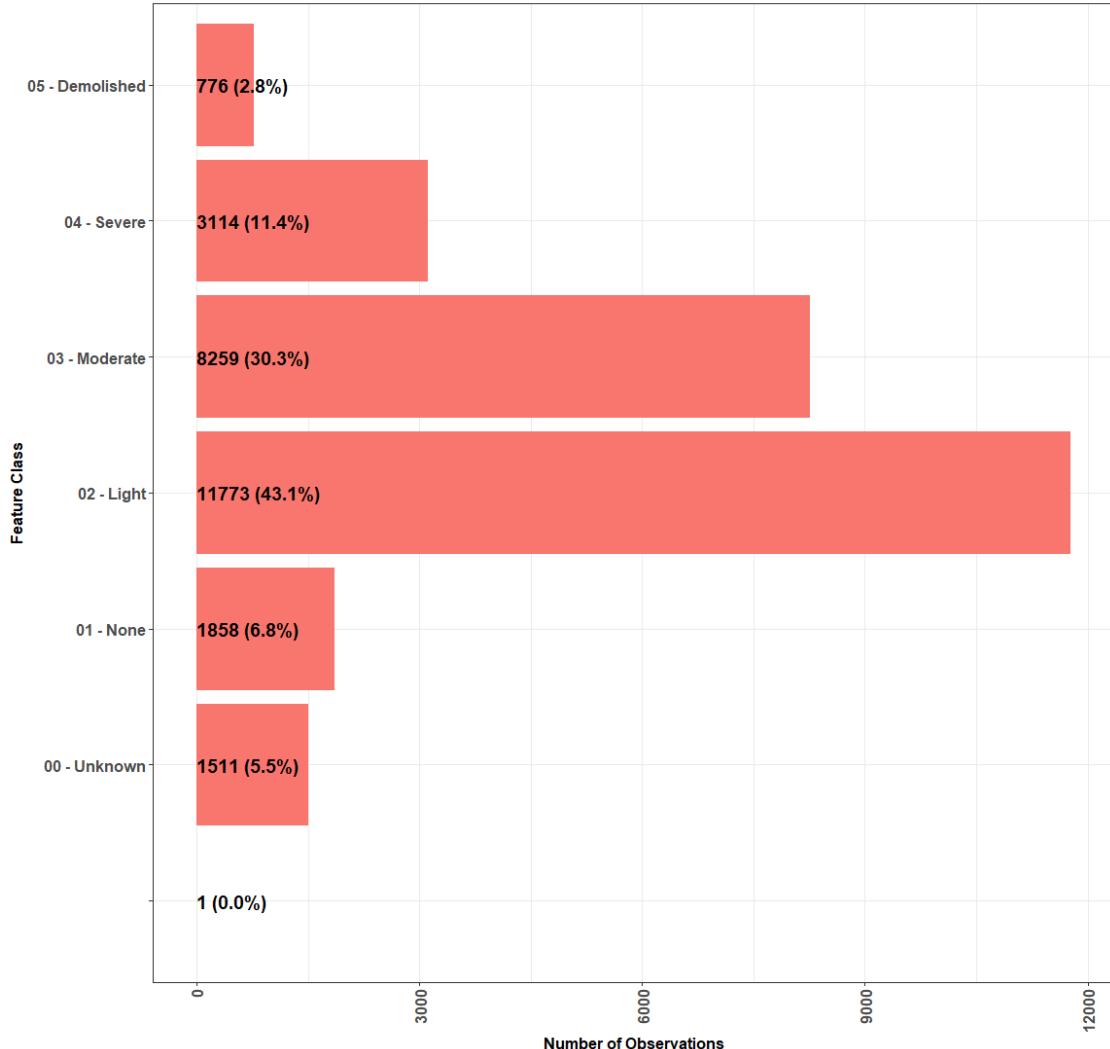
##  

## Feature Value      Counter      Percentage  

## -----
```

##	1	0.0037
## 00 - Unknown	1511	5.5364
## 01 - None	1858	6.8079
## 02 - Light	11773	43.1372
## 03 - Moderate	8259	30.2616
## 04 - Severe	3114	11.4099
## 05 - Demolished	776	2.8433

Plot of Feature:VEHICLE_DAMAGE
Data:All 2014-Only 2014-Homologated.csv



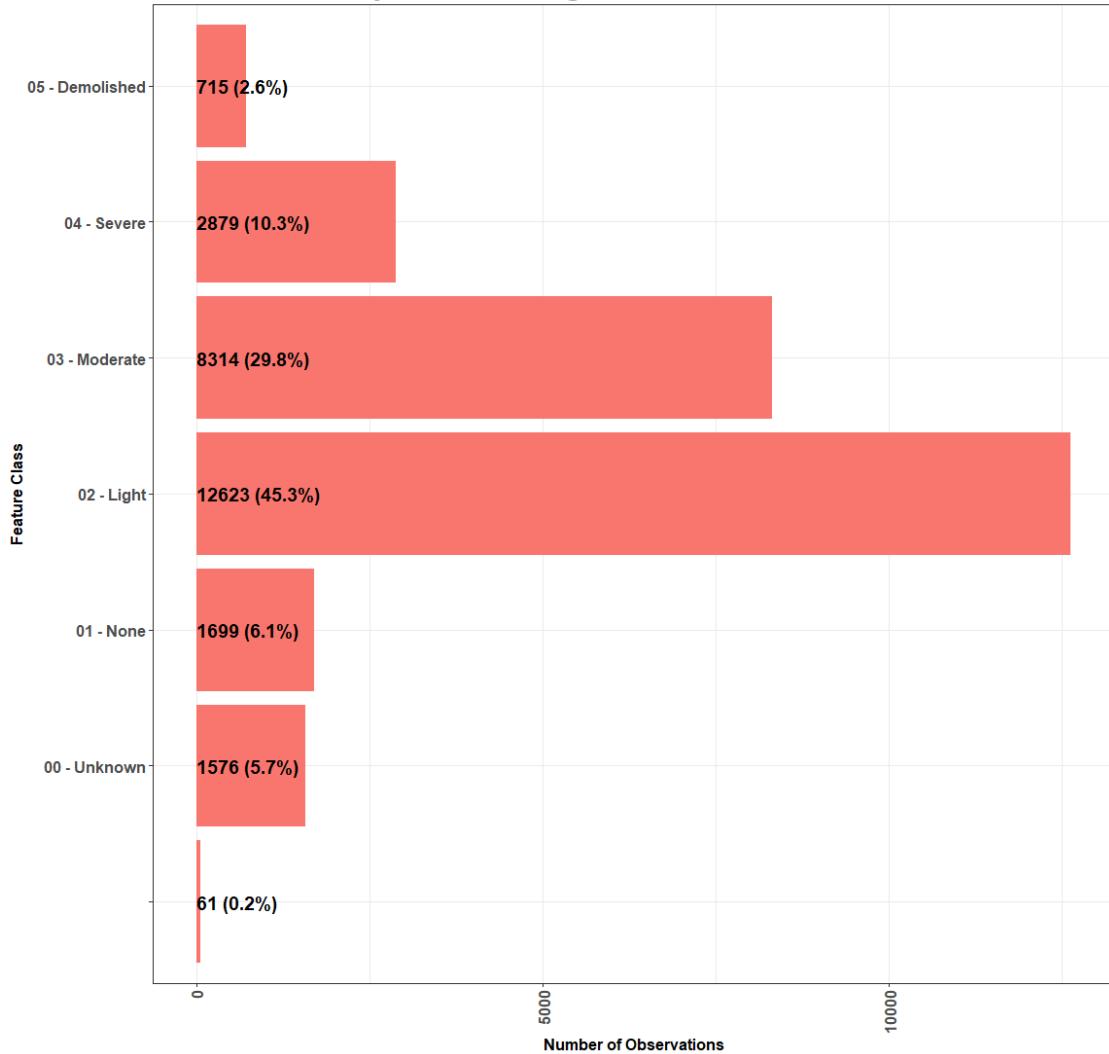
```
##
## -----
## CHECKING FEATURE:VEHICLE_DAMAGE
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:61
##
```

```

## Summary as Factor Feature:
## 
## Number of Features: 7
## 
## TOP 100 FEATURES OF VEHICLE_DAMAGE
## 
## Feature Value      Counter      Percentage
## -----            -----      -----
## 00 - Unknown      1576       5.6554
## 01 - None          1699       6.0968
## 02 - Light         12623      45.2973
## 03 - Moderate      8314       29.8346
## 04 - Severe         2879       10.3312
## 05 - Demolished     715        2.5658

```

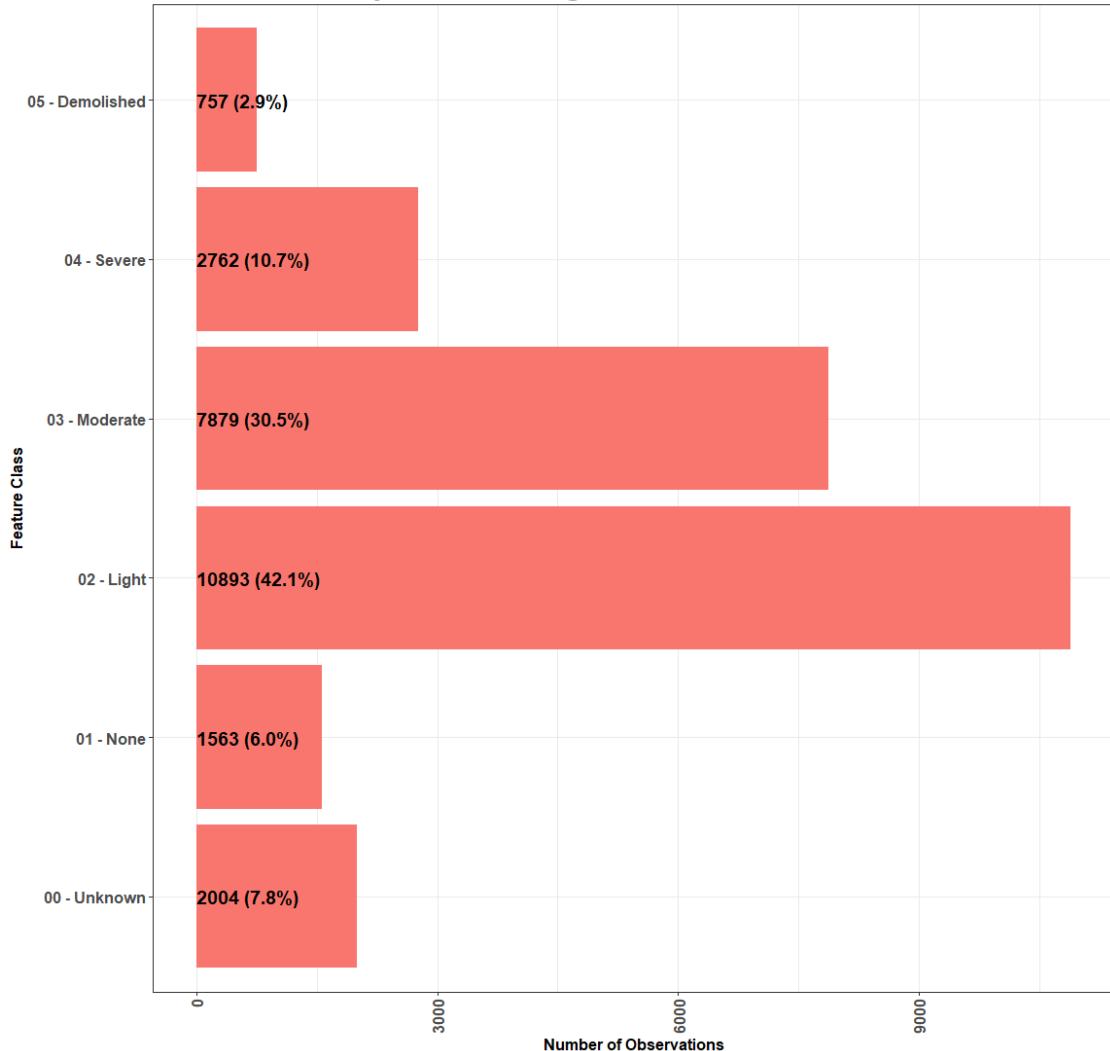
Plot of Feature:VEHICLE_DAMAGE
Data:All 2015-Only 2015-Homologated.csv





```
##  
## -----  
## CHECKING FEATURE:VEHICLE_DAMAGE  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 6  
##  
## TOP 100 FEATURES OF VEHICLE_DAMAGE  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 2004 7.750  
## 01 - None 1563 6.045  
## 02 - Light 10893 42.126  
## 03 - Moderate 7879 30.470  
## 04 - Severe 2762 10.681  
## 05 - Demolished 757 2.928
```

Plot of Feature:VEHICLE_DAMAGE
Data:All 2016-Only 2016-Homologated.csv



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_DAMAGE  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 6  

##  

## TOP 100 FEATURES OF VEHICLE_DAMAGE  

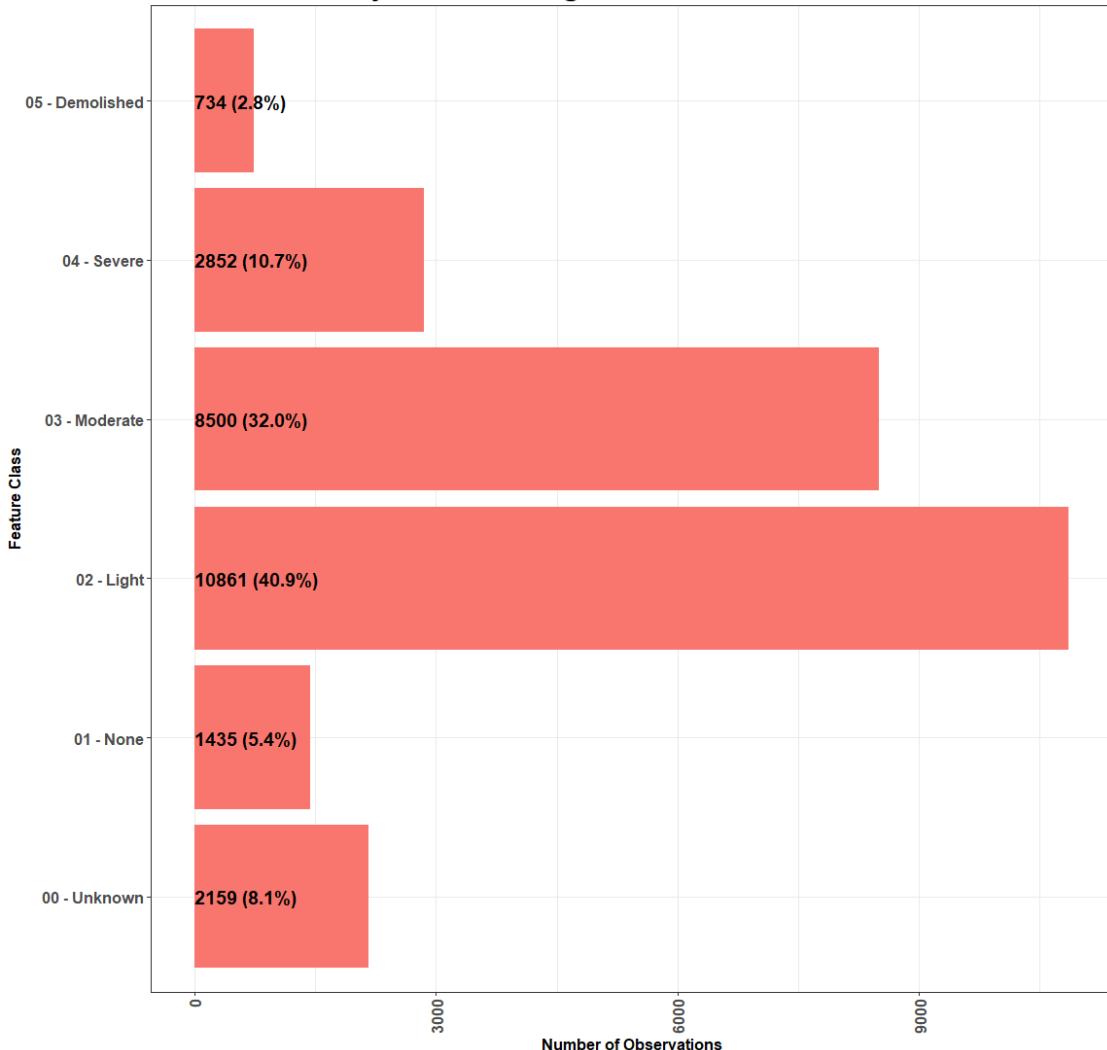
##  

## Feature Value      Counter      Percentage  

## -----
```

## 00 - Unknown	2159	8.135
## 01 - None	1435	5.407
## 02 - Light	10861	40.922
## 03 - Moderate	8500	32.026
## 04 - Severe	2852	10.746
## 05 - Demolished	734	2.765

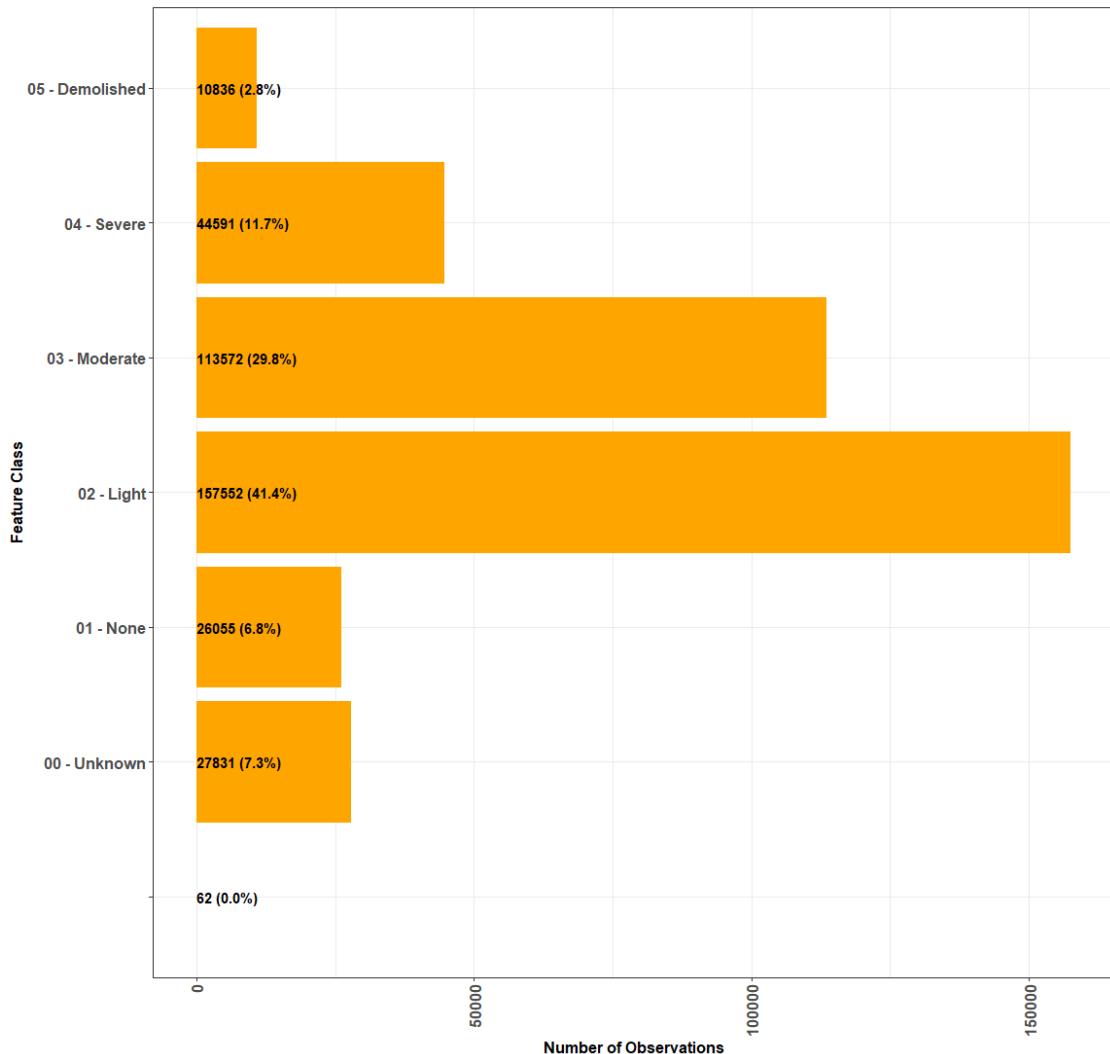
Plot of Feature:VEHICLE_DAMAGE
Data>All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:VEHICLE_DAMAGE
## ALL DATA...
## =====
## Number of Blank Values:62
##
```

```
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 25669 26605  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 26073 27755  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 28502 28453  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 27483 27900  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 26530 27971  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 27292 27867  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 25858 26541  
##  
##  
## Summary as Factor Feature:  
## Number of Features: 7
```

Plot of Feature: VEHICLE_DAMAGE All Data

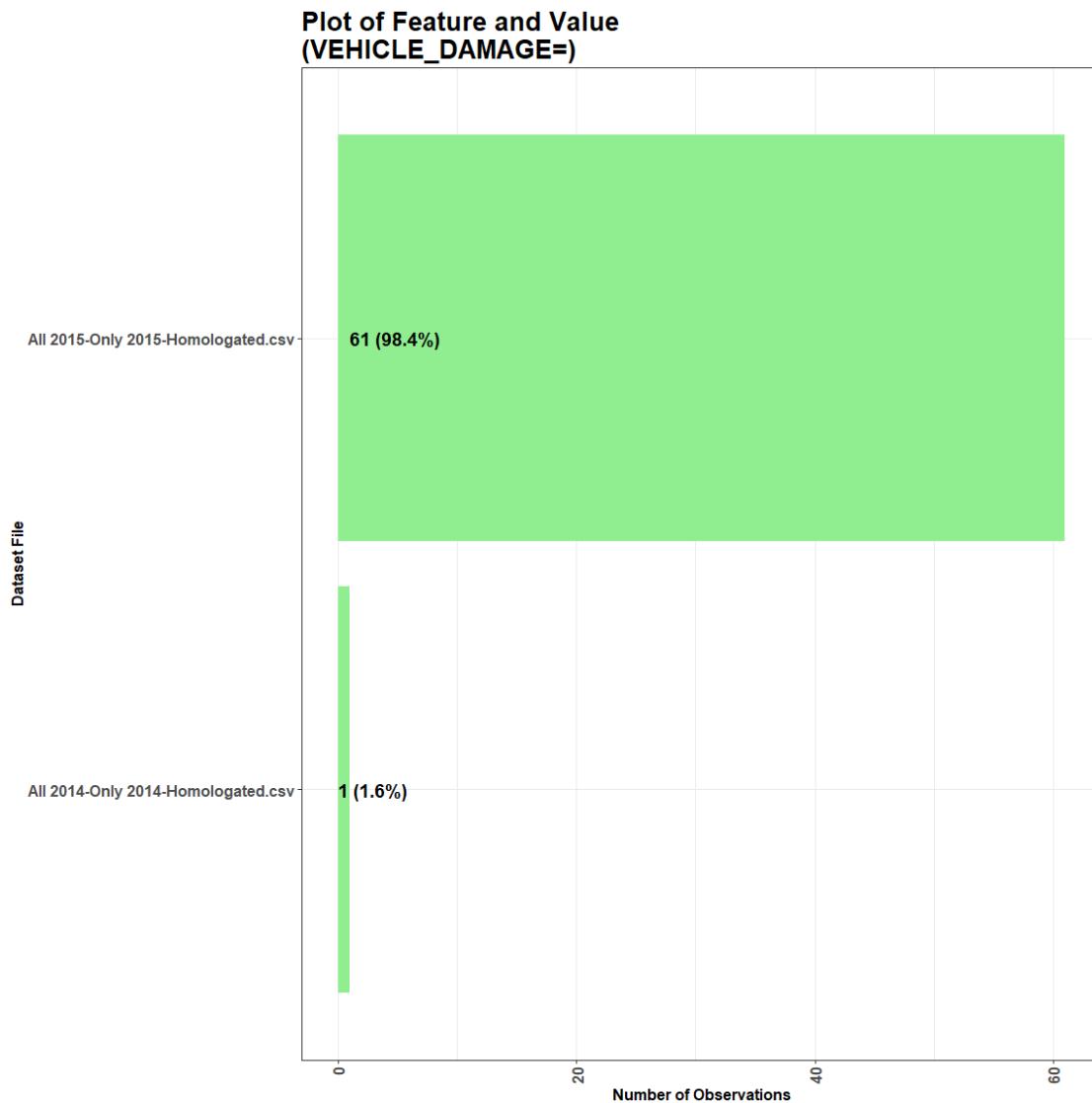


```
## [1] "TOP 100 FEATURES COUNTERS OF: VEHICLE_DAMAGE"
```

Feature Value	Counter	Percentage
	62	0.0163
00 - Unknown	27831	7.3143
01 - None	26055	6.8476
02 - Light	157552	41.4067
03 - Moderate	113572	29.8482
04 - Severe	44591	11.7191
05 - Demolished	10836	2.8478

25.1 VEHICLE_DAMAGE = "" (Blank)

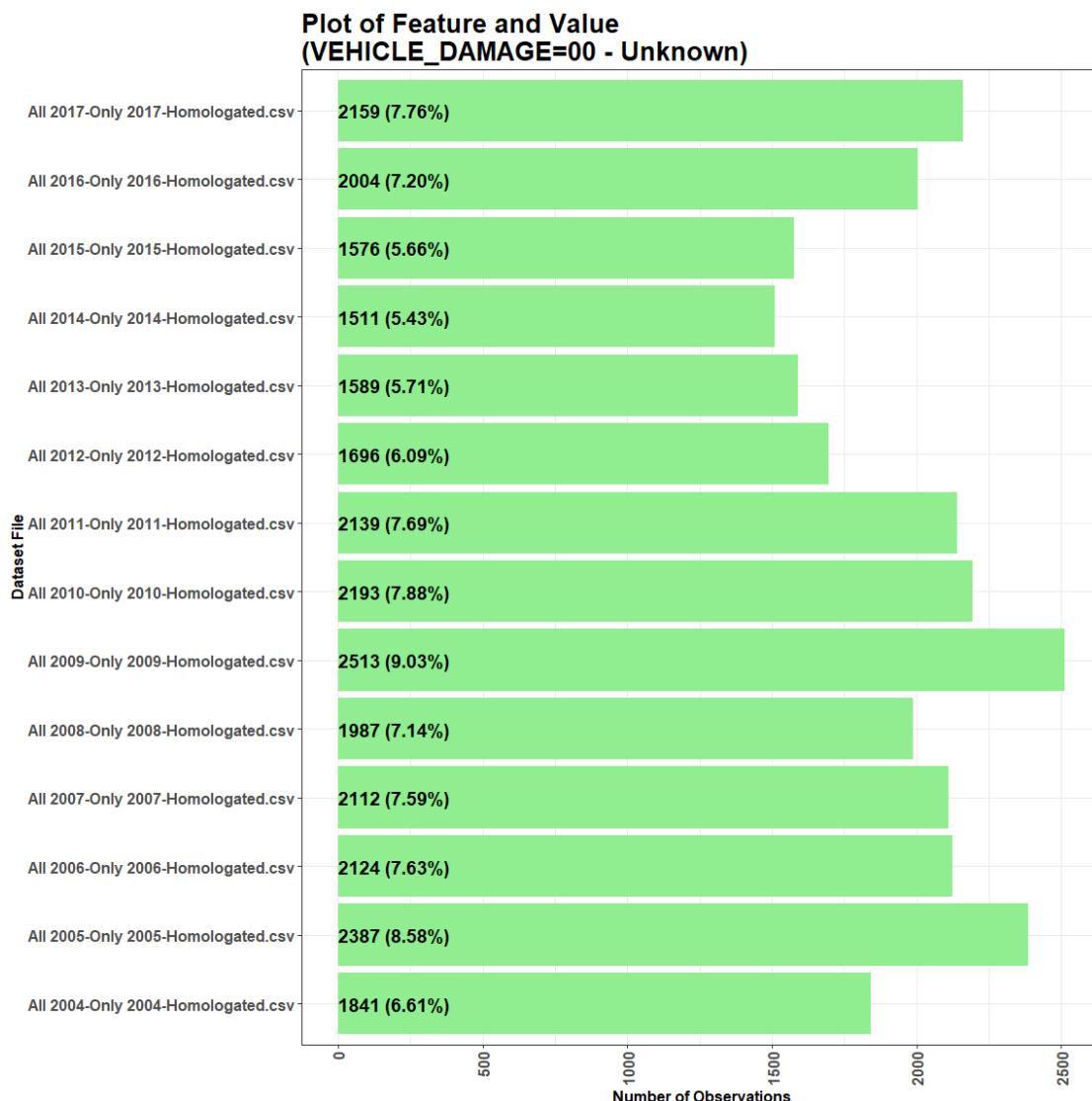
```
##  
## =====  
## CHECKING FEATURE AND VALUE (VEHICLE_DAMAGE=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 1 61
```



DATASET FILE	COUNTER OF (VEHICLE_DAMAGE=)	Percentage
All 2014-Only 2014-Homologated.csv	1	1.613
All 2015-Only 2015-Homologated.csv	61	98.387

25.2 VEHICLE_DAMAGE = "00 - Unknown"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (VEHICLE_DAMAGE=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 1841 2387  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 2124 2112  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 1987 2513  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 2193 2139  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 1696 1589  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 1511 1576  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 2004 2159
```



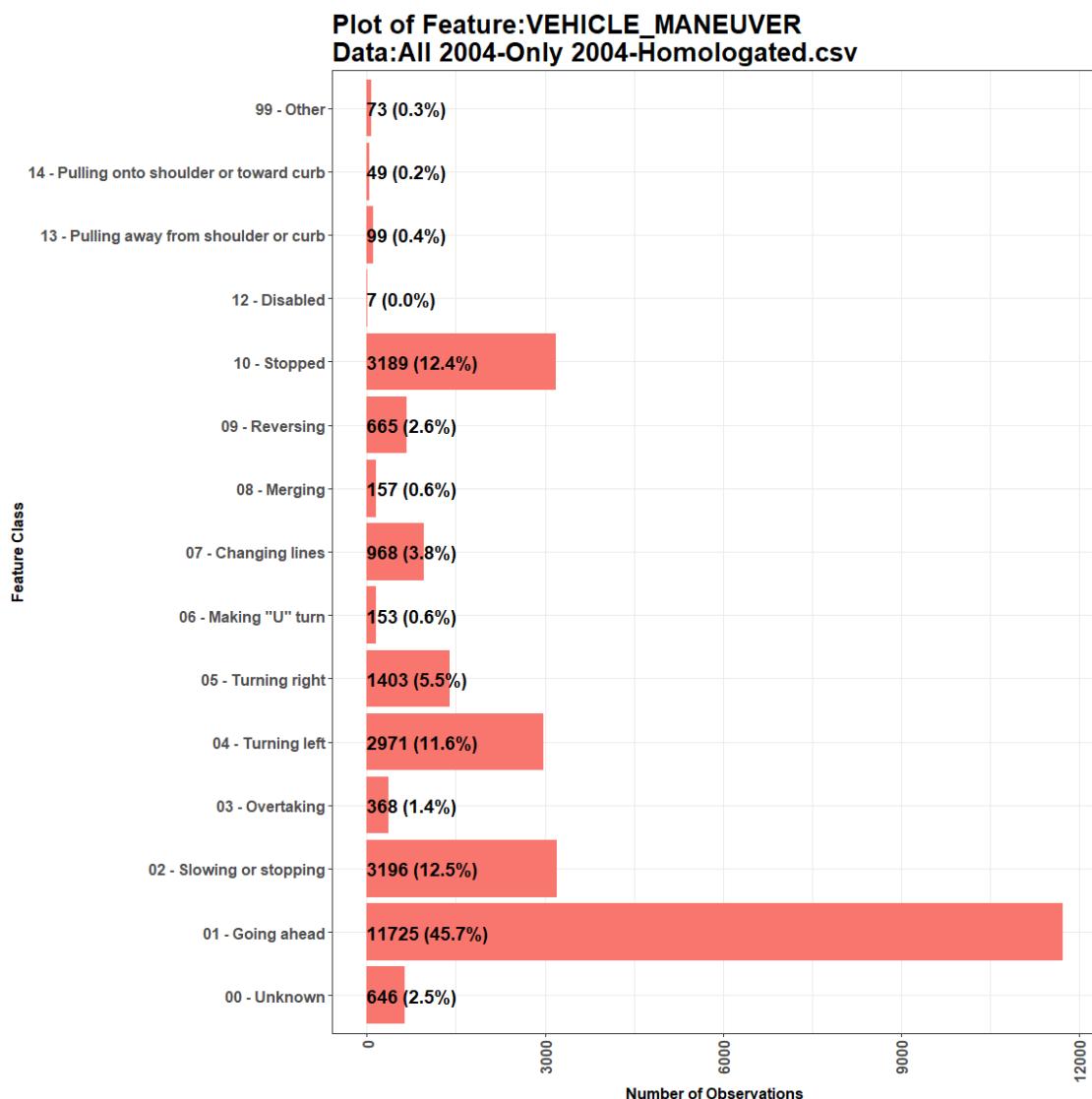
DATASET FILE	COUNTER OF (VEHICLE_DAMAGE=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	1841	6.615	
All 2005-Only 2005-Homologated.csv	2387	8.577	
All 2006-Only 2006-Homologated.csv	2124	7.632	
All 2007-Only 2007-Homologated.csv	2112	7.589	
All 2008-Only 2008-Homologated.csv	1987	7.139	

All 2009-Only 2009-Homologated.csv	2513	9.030
All 2010-Only 2010-Homologated.csv	2193	7.880
All 2011-Only 2011-Homologated.csv	2139	7.686
All 2012-Only 2012-Homologated.csv	1696	6.094
All 2013-Only 2013-Homologated.csv	1589	5.710
All 2014-Only 2014-Homologated.csv	1511	5.429
All 2015-Only 2015-Homologated.csv	1576	5.663
All 2016-Only 2016-Homologated.csv	2004	7.201
All 2017-Only 2017-Homologated.csv	2159	7.758

26. Vehicle Maneuver (VEHICLE_MANEUVER)

```
## 
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 15
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 646 2.5167
## 01 - Going ahead 11725 45.6777
## 02 - Slowing or stopping 3196 12.4508
## 03 - Overtaking 368 1.4336
## 04 - Turning left 2971 11.5743
## 05 - Turning right 1403 5.4657
## 06 - Making "U" turn 153 0.5960
## 07 - Changing lines 968 3.7711
```

## 08 - Merging	157	0.6116
## 09 - Reversing	665	2.5907
## 10 - Stopped	3189	12.4235
## 12 - Disabled	7	0.0273
## 13 - Pulling away from shoulder or curb	99	0.3857
## 14 - Pulling onto shoulder or toward curb	49	0.1909
## 99 - Other	73	0.2844



```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
```

```
## Summary as Factor Feature:
```

```
##
```

```
## Number of Features: 15
```

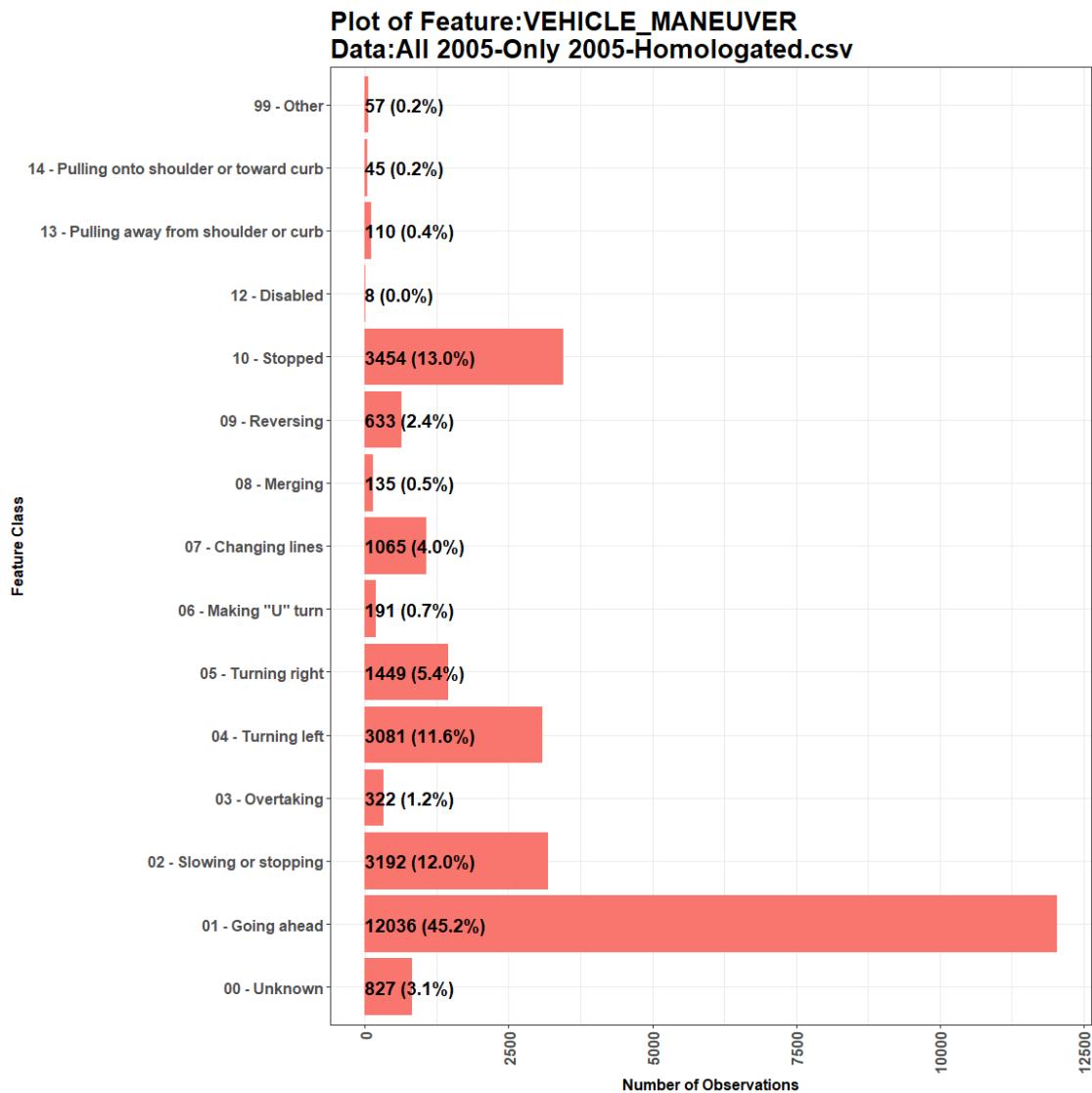
```
##
```

```
## TOP 100 FEATURES OF VEHICLE_MANEUVER
```

```
##
```

## Feature Value	Counter	Percentage
## -----	-----	-----
## 00 - Unknown	827	3.1084
## 01 - Going ahead	12036	45.2396
## 02 - Slowing or stopping	3192	11.9977
## 03 - Overtaking	322	1.2103
## 04 - Turning left	3081	11.5805
## 05 - Turning right	1449	5.4463
## 06 - Making "U" turn	191	0.7179
## 07 - Changing lines	1065	4.0030
## 08 - Merging	135	0.5074
## 09 - Reversing	633	2.3793
## 10 - Stopped	3454	12.9825
## 12 - Disabled	8	0.0301
## 13 - Pulling away from shoulder or curb	110	0.4135
## 14 - Pulling onto shoulder or toward curb	45	0.1691
## 99 - Other	57	0.2142

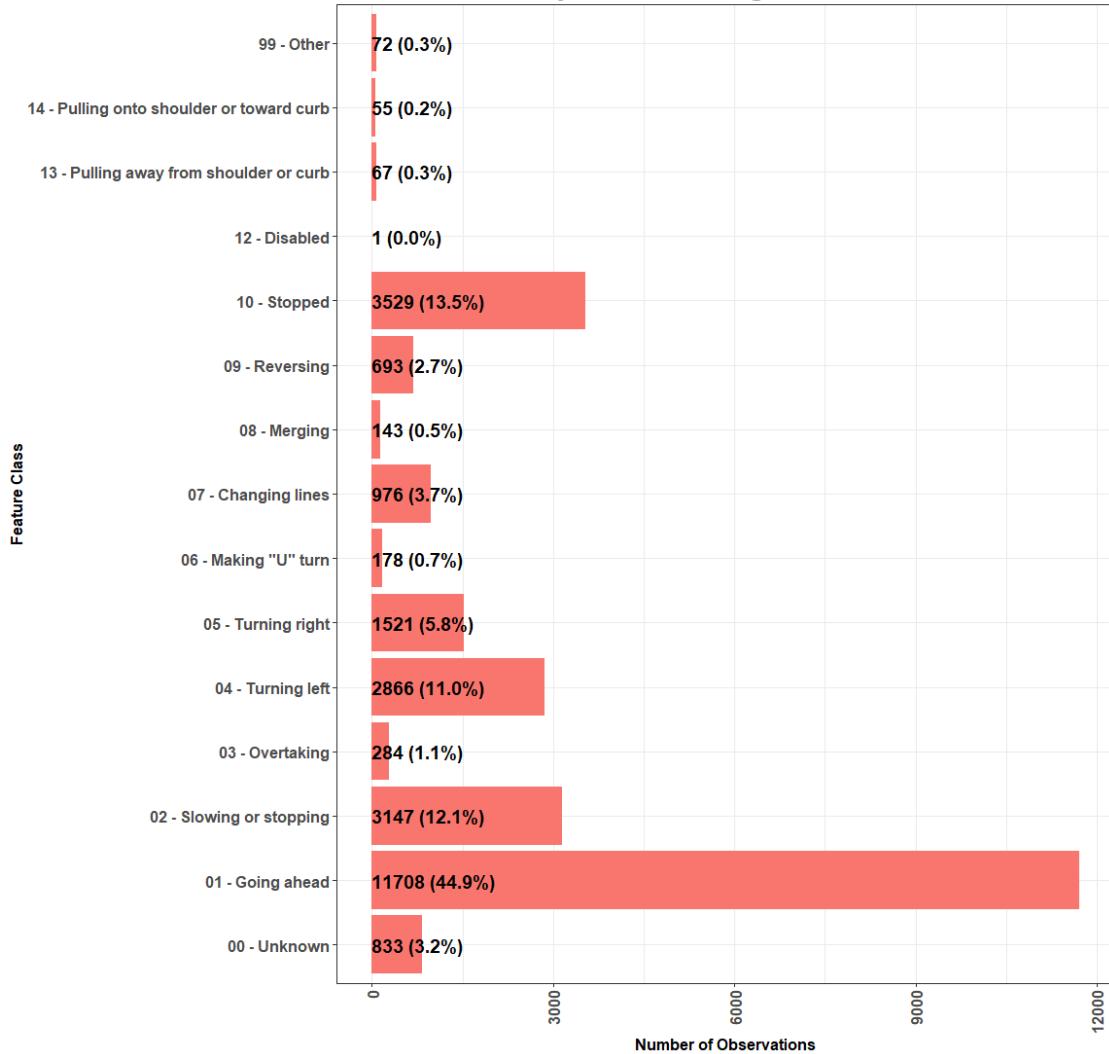
```
## -----
```



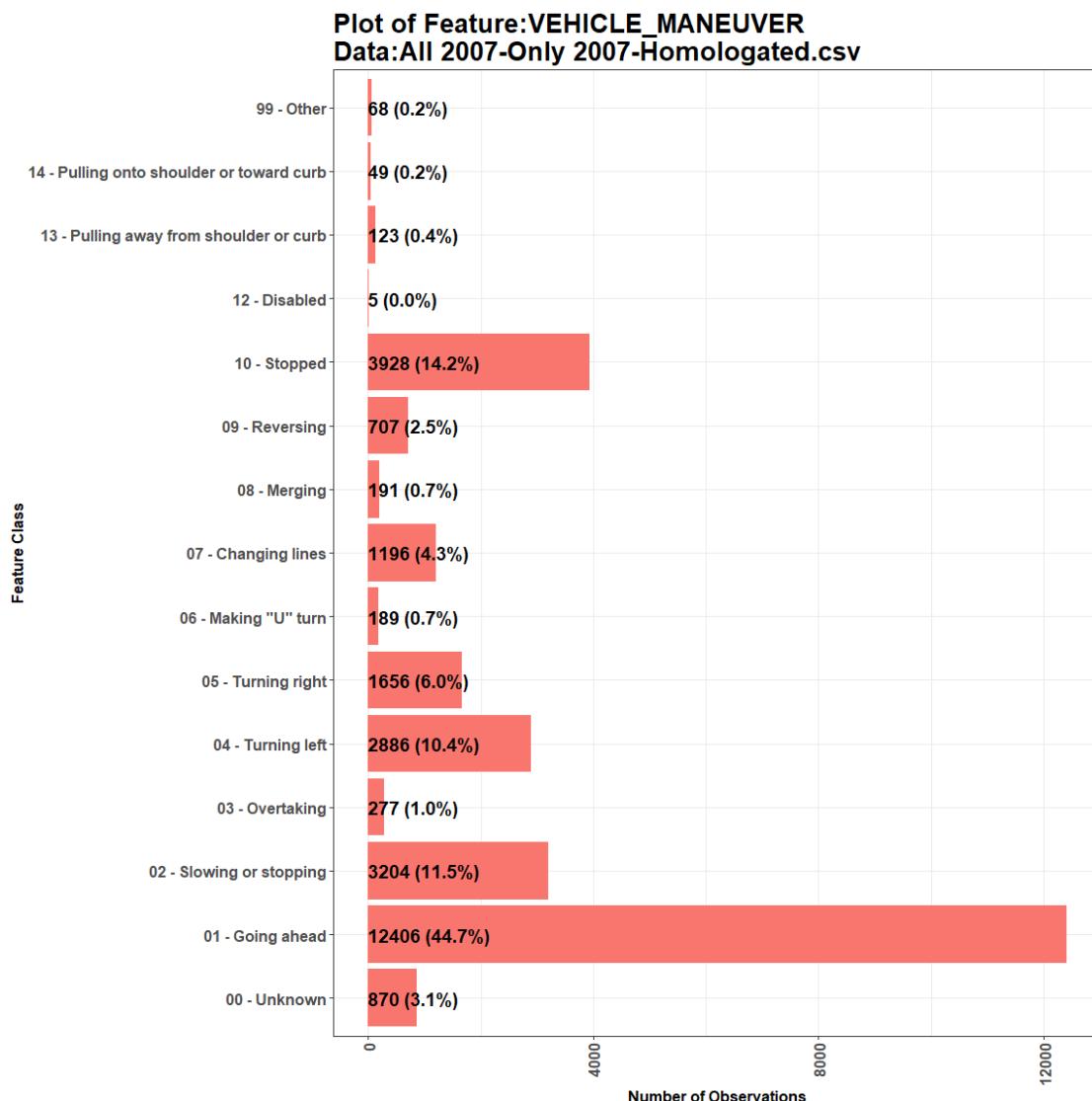
```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 15
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
```

## 00 - Unknown	833	3.1949
## 01 - Going ahead	11708	44.9047
## 02 - Slowing or stopping	3147	12.0700
## 03 - Overtaking	284	1.0892
## 04 - Turning left	2866	10.9922
## 05 - Turning right	1521	5.8336
## 06 - Making "U" turn	178	0.6827
## 07 - Changing lines	976	3.7433
## 08 - Merging	143	0.5485
## 09 - Reversing	693	2.6579
## 10 - Stopped	3529	13.5351
## 12 - Disabled	1	0.0038
## 13 - Pulling away from shoulder or curb	67	0.2570
## 14 - Pulling onto shoulder or toward curb	55	0.2109
## 99 - Other	72	0.2761

Plot of Feature:VEHICLE_MANEUVER
Data:All 2006-Only 2006-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 15
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 870 3.1346
## 01 - Going ahead 12406 44.6983
## 02 - Slowing or stopping 3204 11.5439
## 03 - Overtaking 277 0.9980
## 04 - Turning left 2886 10.3981
## 05 - Turning right 1656 5.9665
## 06 - Making "U" turn 189 0.6810
## 07 - Changing lines 1196 4.3091
## 08 - Merging 191 0.6882
## 09 - Reversing 707 2.5473
## 10 - Stopped 3928 14.1524
## 12 - Disabled 5 0.0180
## 13 - Pulling away from shoulder or curb 123 0.4432
## 14 - Pulling onto shoulder or toward curb 49 0.1765
## 99 - Other 68 0.2450
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_MANEUVER  

## DATA:All 2008-Only 2008-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 16  

##  

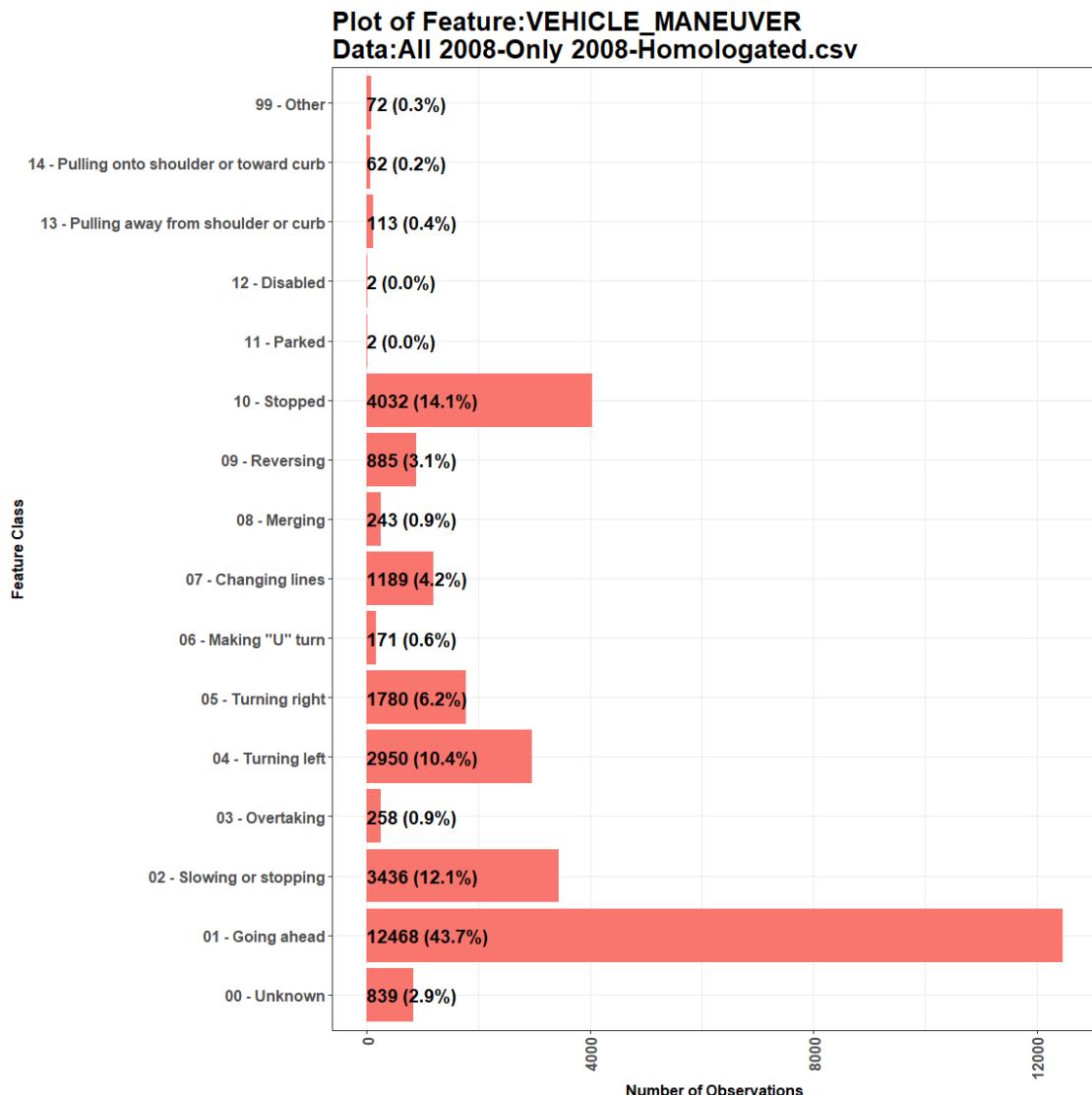
## TOP 100 FEATURES OF VEHICLE_MANEUVER  

##  

## Feature Value Counter Percentage  

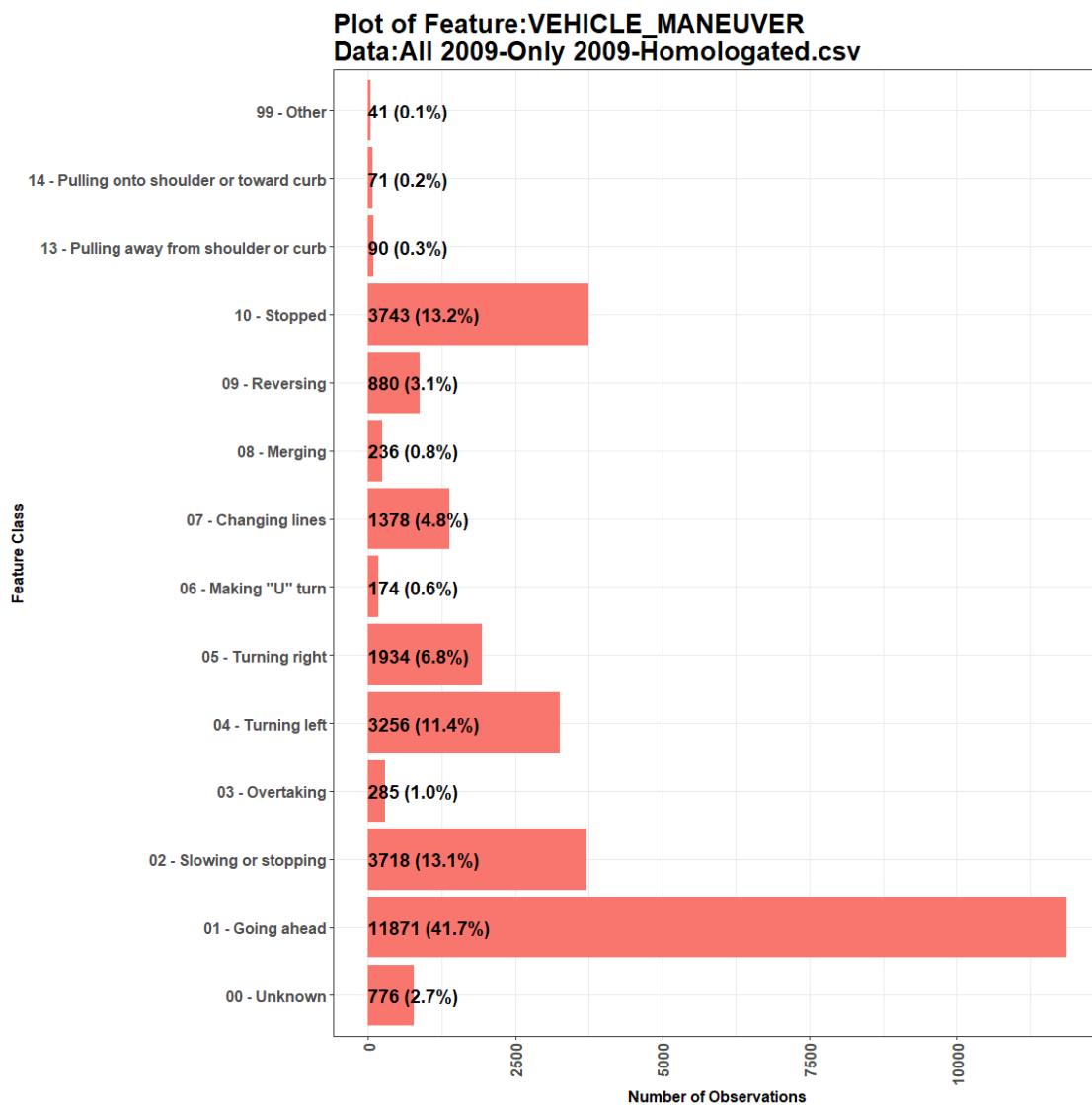
## -----
```

## 00 - Unknown	839	2.9437
## 01 - Going ahead	12468	43.7443
## 02 - Slowing or stopping	3436	12.0553
## 03 - Overtaking	258	0.9052
## 04 - Turning left	2950	10.3502
## 05 - Turning right	1780	6.2452
## 06 - Making "U" turn	171	0.6000
## 07 - Changing lines	1189	4.1716
## 08 - Merging	243	0.8526
## 09 - Reversing	885	3.1050
## 10 - Stopped	4032	14.1464
## 11 - Parked	2	0.0070
## 12 - Disabled	2	0.0070
## 13 - Pulling away from shoulder or curb	113	0.3965
## 14 - Pulling onto shoulder or toward curb	62	0.2175
## 99 - Other	72	0.2526

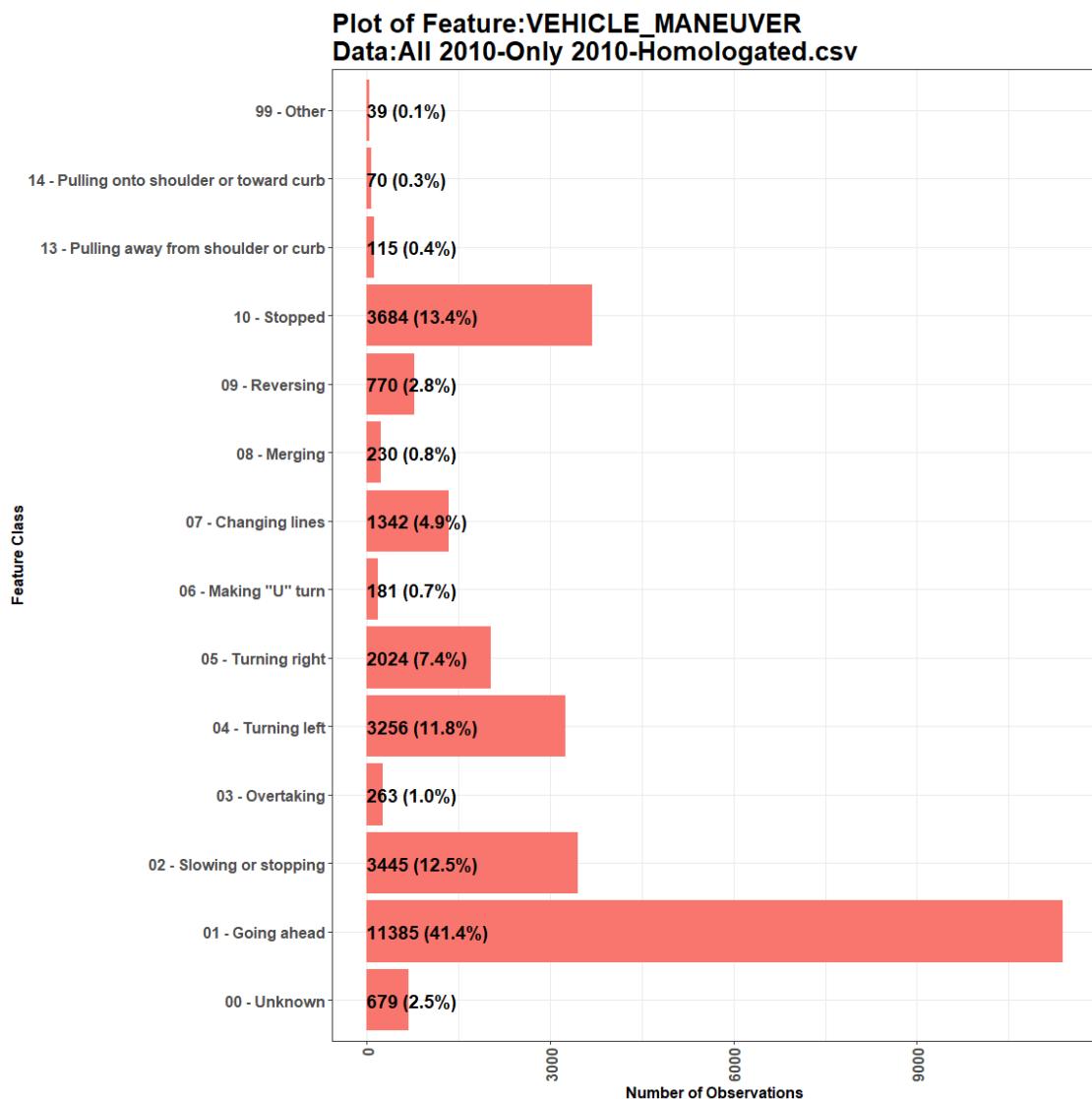


```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 14
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
```

## 00 - Unknown	776	2.7273
## 01 - Going ahead	11871	41.7214
## 02 - Slowing or stopping	3718	13.0672
## 03 - Overtaking	285	1.0017
## 04 - Turning left	3256	11.4434
## 05 - Turning right	1934	6.7972
## 06 - Making "U" turn	174	0.6115
## 07 - Changing lines	1378	4.8431
## 08 - Merging	236	0.8294
## 09 - Reversing	880	3.0928
## 10 - Stopped	3743	13.1550
## 13 - Pulling away from shoulder or curb	90	0.3163
## 14 - Pulling onto shoulder or toward curb	71	0.2495
## 99 - Other	41	0.1441



```
##  
## -----  
## CHECKING FEATURE:VEHICLE_MANEUVER  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 14  
##  
## TOP 100 FEATURES OF VEHICLE_MANEUVER  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 679 2.4706  
## 01 - Going ahead 11385 41.4256  
## 02 - Slowing or stopping 3445 12.5350  
## 03 - Overtaking 263 0.9570  
## 04 - Turning left 3256 11.8473  
## 05 - Turning right 2024 7.3646  
## 06 - Making "U" turn 181 0.6586  
## 07 - Changing lines 1342 4.8830  
## 08 - Merging 230 0.8369  
## 09 - Reversing 770 2.8017  
## 10 - Stopped 3684 13.4047  
## 13 - Pulling away from shoulder or curb 115 0.4184  
## 14 - Pulling onto shoulder or toward curb 70 0.2547  
## 99 - Other 39 0.1419
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_MANEUVER  

## DATA:All 2011-Only 2011-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 14  

##  

## TOP 100 FEATURES OF VEHICLE_MANEUVER  

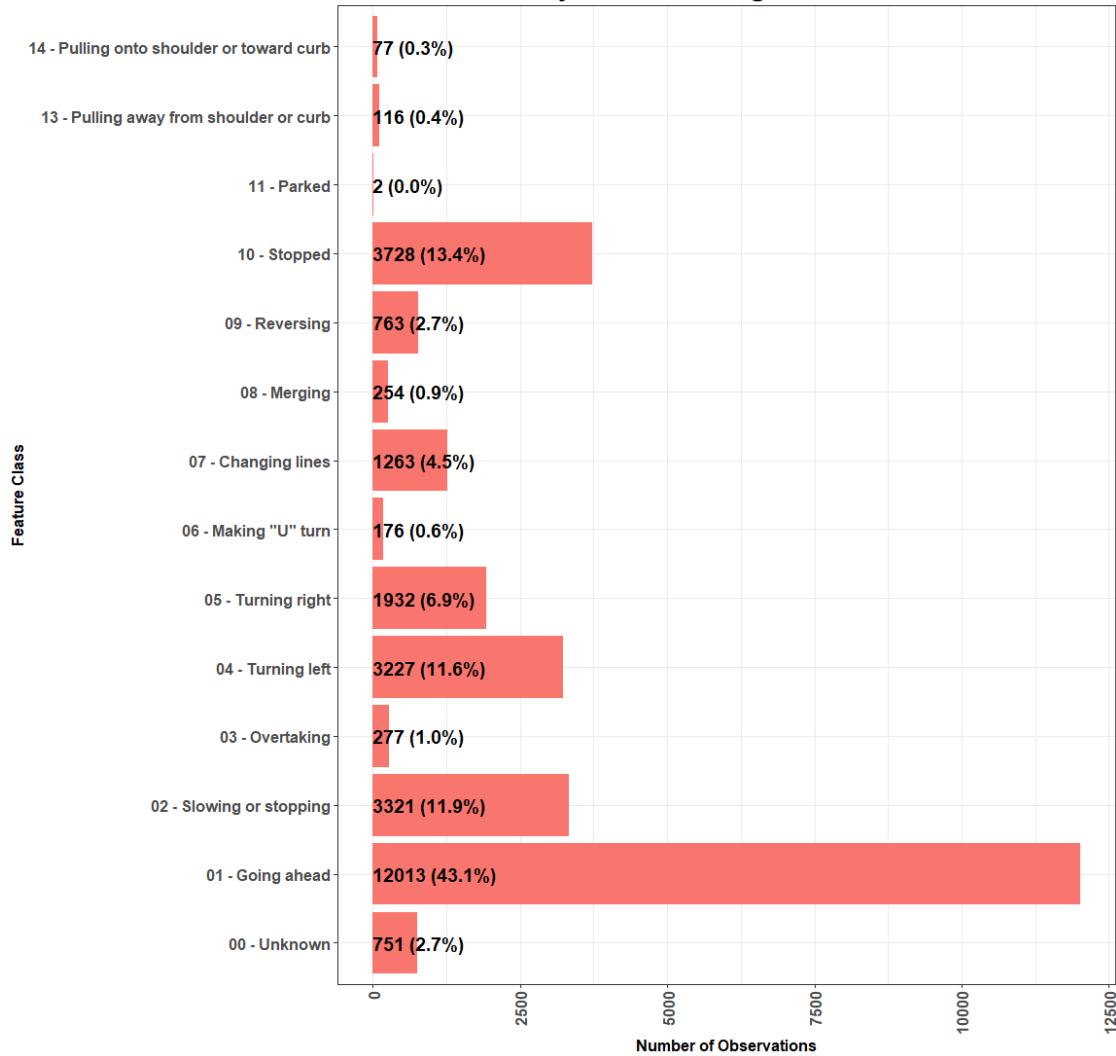
##  

## Feature Value Counter Percentage  

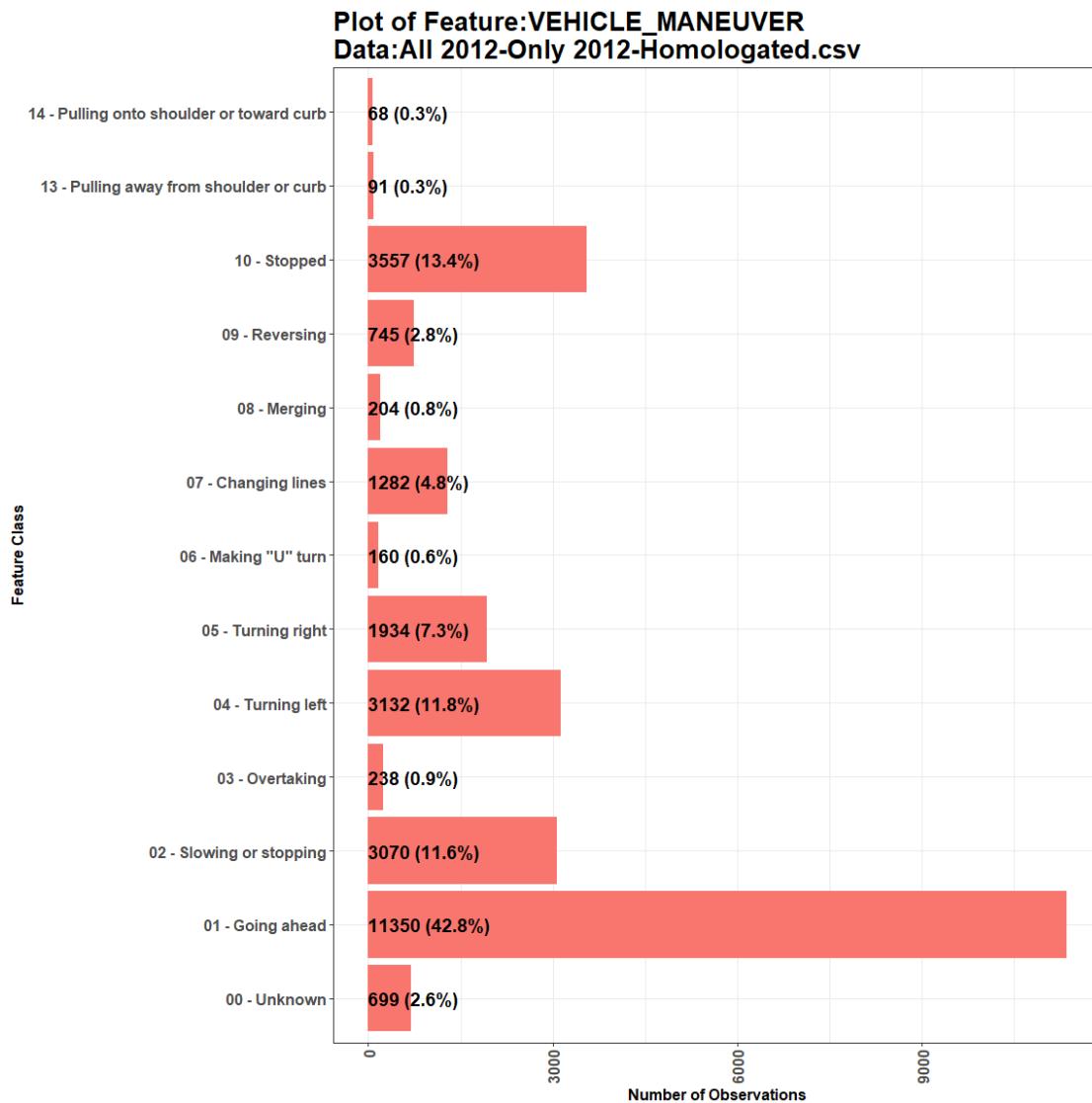
## -----
```

## 00 - Unknown	751	2.6918
## 01 - Going ahead	12013	43.0573
## 02 - Slowing or stopping	3321	11.9032
## 03 - Overtaking	277	0.9928
## 04 - Turning left	3227	11.5663
## 05 - Turning right	1932	6.9247
## 06 - Making "U" turn	176	0.6308
## 07 - Changing lines	1263	4.5269
## 08 - Merging	254	0.9104
## 09 - Reversing	763	2.7348
## 10 - Stopped	3728	13.3620
## 11 - Parked	2	0.0072
## 13 - Pulling away from shoulder or curb	116	0.4158
## 14 - Pulling onto shoulder or toward curb	77	0.2760

Plot of Feature: VEHICLE_MANEUVER
Data: All 2011-Only 2011-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:VEHICLE_MANEUVER  
## DATA:All 2012-Only 2012-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 13  
##  
## TOP 100 FEATURES OF VEHICLE_MANEUVER  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 699 2.6348  
## 01 - Going ahead 11350 42.7818  
## 02 - Slowing or stopping 3070 11.5718  
## 03 - Overtaking 238 0.8971  
## 04 - Turning left 3132 11.8055  
## 05 - Turning right 1934 7.2899  
## 06 - Making "U" turn 160 0.6031  
## 07 - Changing lines 1282 4.8323  
## 08 - Merging 204 0.7689  
## 09 - Reversing 745 2.8081  
## 10 - Stopped 3557 13.4075  
## 13 - Pulling away from shoulder or curb 91 0.3430  
## 14 - Pulling onto shoulder or toward curb 68 0.2563
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_MANEUVER  

## DATA:All 2013-Only 2013-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 14  

##  

## TOP 100 FEATURES OF VEHICLE_MANEUVER  

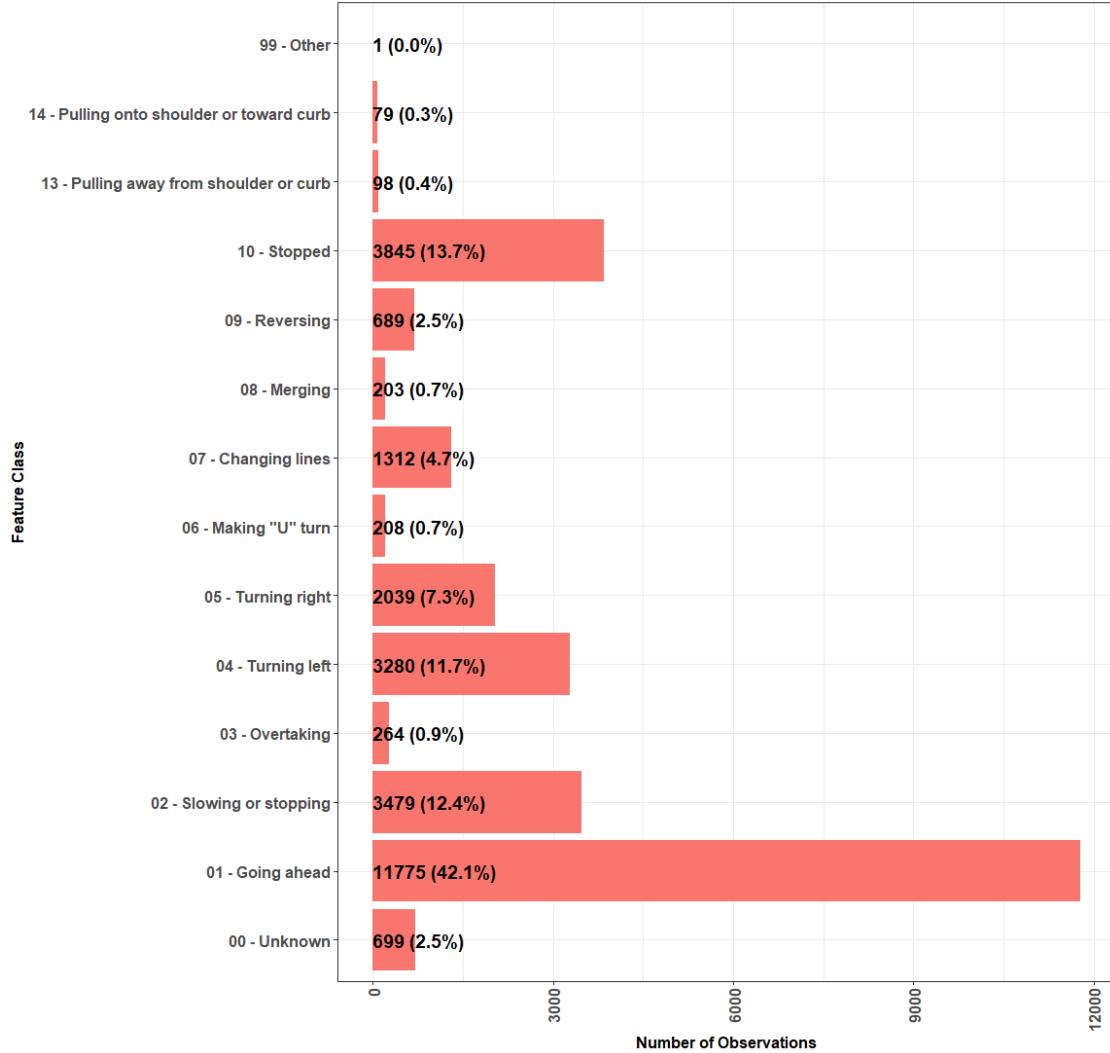
##  

## Feature Value Counter Percentage  

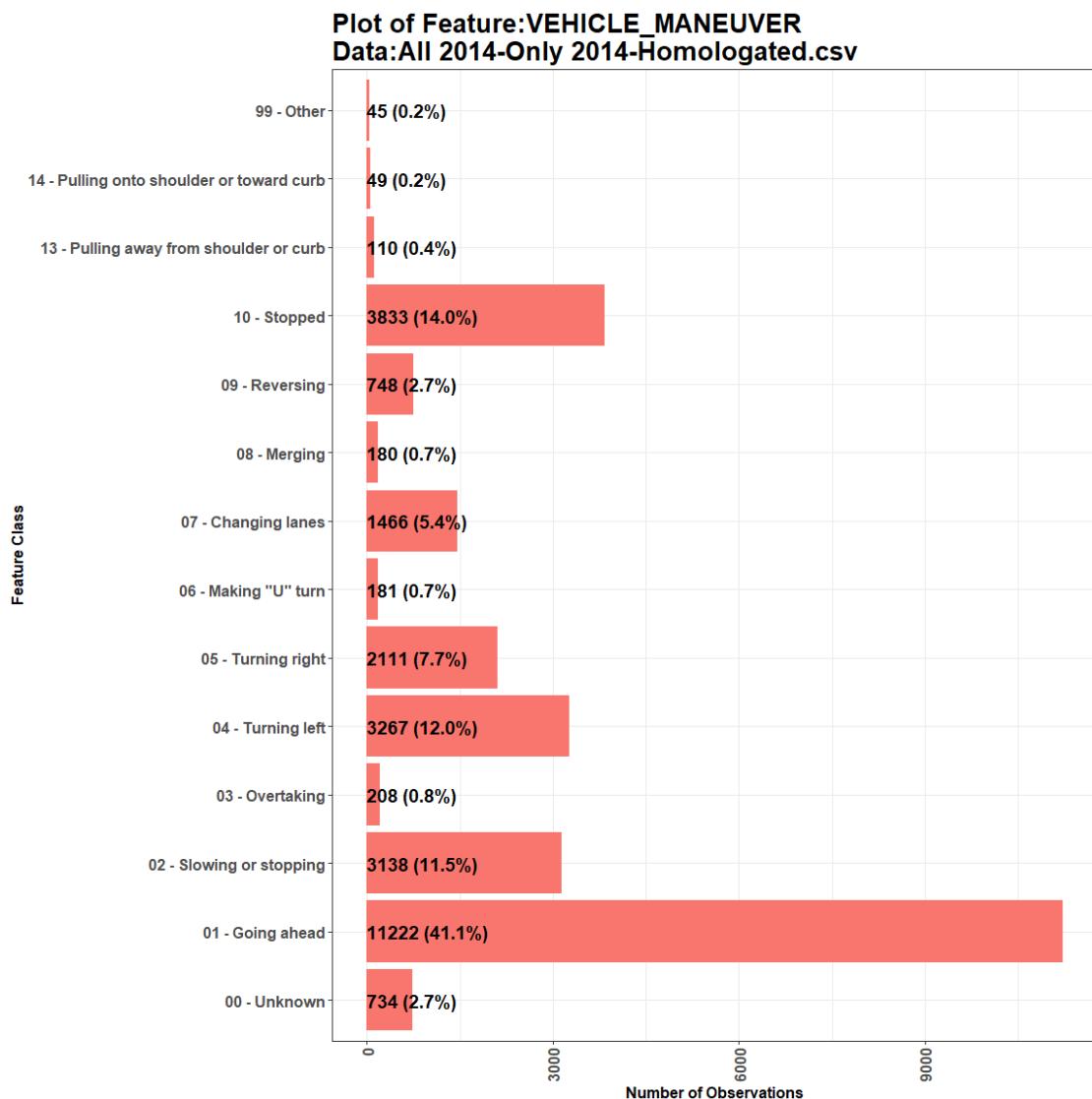
## -----
```

## 00 - Unknown	699	2.4990
## 01 - Going ahead	11775	42.0972
## 02 - Slowing or stopping	3479	12.4379
## 03 - Overtaking	264	0.9438
## 04 - Turning left	3280	11.7264
## 05 - Turning right	2039	7.2897
## 06 - Making "U" turn	208	0.7436
## 07 - Changing lines	1312	4.6906
## 08 - Merging	203	0.7258
## 09 - Reversing	689	2.4633
## 10 - Stopped	3845	13.7464
## 13 - Pulling away from shoulder or curb	98	0.3504
## 14 - Pulling onto shoulder or toward curb	79	0.2824
## 99 - Other	1	0.0036

Plot of Feature:VEHICLE_MANEUVER
Data:All 2013-Only 2013-Homologated.csv



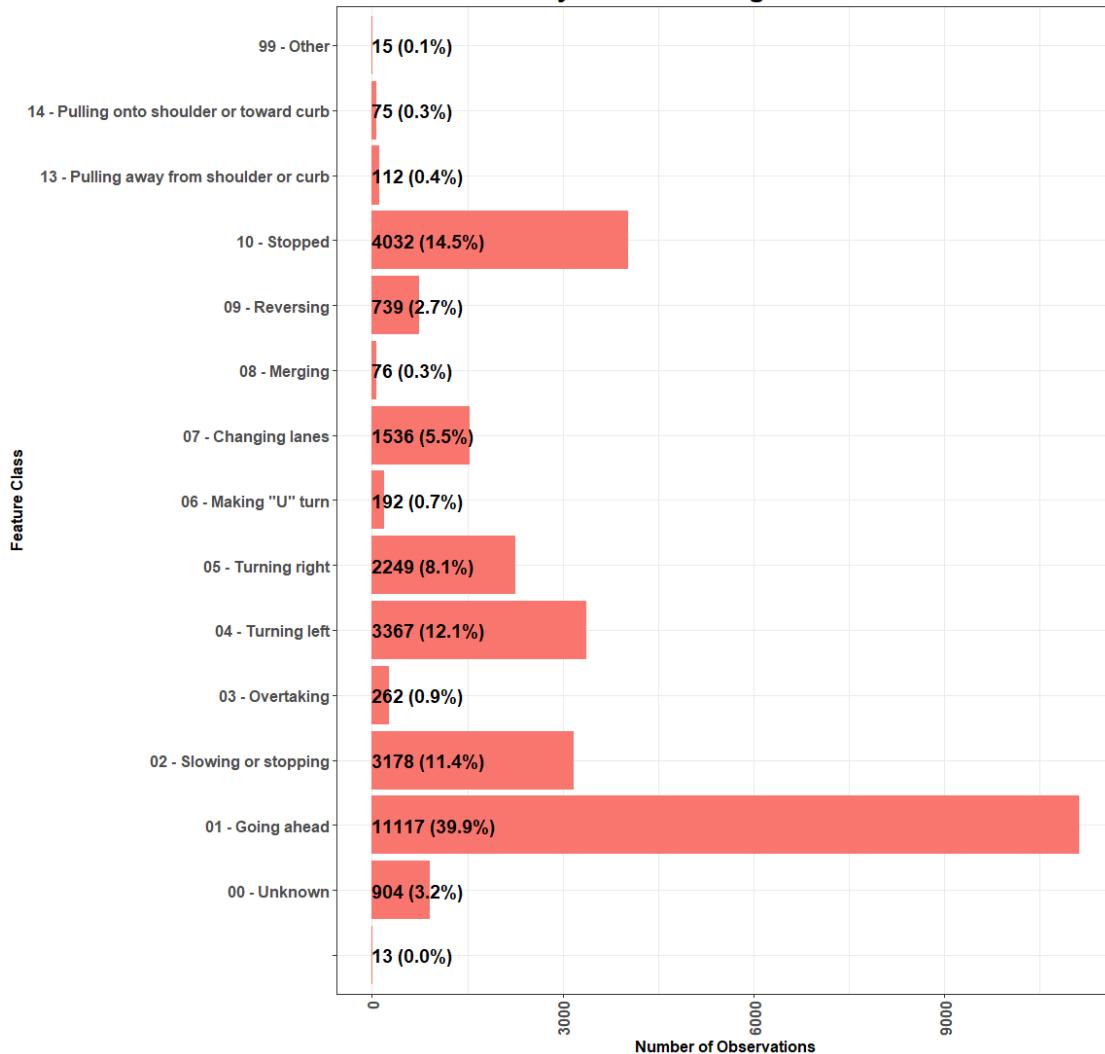
```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 14
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 734 2.6894
## 01 - Going ahead 11222 41.1183
## 02 - Slowing or stopping 3138 11.4979
## 03 - Overtaking 208 0.7621
## 04 - Turning left 3267 11.9705
## 05 - Turning right 2111 7.7349
## 06 - Making "U" turn 181 0.6632
## 07 - Changing lanes 1466 5.3715
## 08 - Merging 180 0.6595
## 09 - Reversing 748 2.7407
## 10 - Stopped 3833 14.0444
## 13 - Pulling away from shoulder or curb 110 0.4030
## 14 - Pulling onto shoulder or toward curb 49 0.1795
## 99 - Other 45 0.1649
```



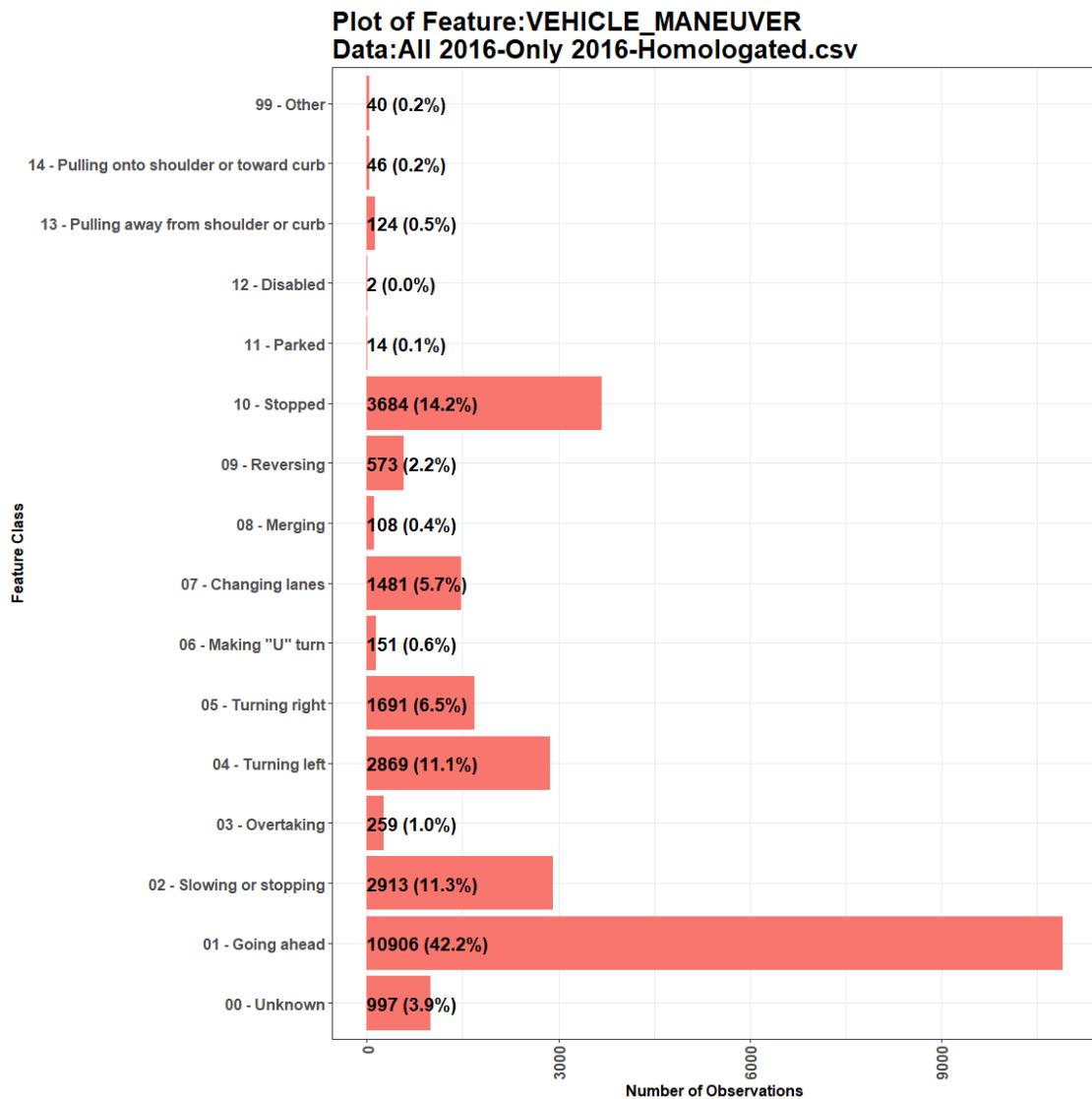
```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:13
##
## Summary as Factor Feature:
##
## Number of Features: 15
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
```

##		13	0.0467
## 00 - Unknown		904	3.2440
## 01 - Going ahead		11117	39.8931
## 02 - Slowing or stopping		3178	11.4042
## 03 - Overtaking		262	0.9402
## 04 - Turning left		3367	12.0824
## 05 - Turning right		2249	8.0705
## 06 - Making "U" turn		192	0.6890
## 07 - Changing lanes		1536	5.5119
## 08 - Merging		76	0.2727
## 09 - Reversing		739	2.6519
## 10 - Stopped		4032	14.4687
## 13 - Pulling away from shoulder or curb		112	0.4019
## 14 - Pulling onto shoulder or toward curb		75	0.2691
## 99 - Other		15	0.0538

Plot of Feature:VEHICLE_MANEUVER
Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_MANEUVER
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 16
##
## TOP 100 FEATURES OF VEHICLE_MANEUVER
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 997 3.8557
## 01 - Going ahead 10906 42.1765
## 02 - Slowing or stopping 2913 11.2654
## 03 - Overtaking 259 1.0016
## 04 - Turning left 2869 11.0952
## 05 - Turning right 1691 6.5396
## 06 - Making "U" turn 151 0.5840
## 07 - Changing lanes 1481 5.7274
## 08 - Merging 108 0.4177
## 09 - Reversing 573 2.2159
## 10 - Stopped 3684 14.2470
## 11 - Parked 14 0.0541
## 12 - Disabled 2 0.0077
## 13 - Pulling away from shoulder or curb 124 0.4795
## 14 - Pulling onto shoulder or toward curb 46 0.1779
## 99 - Other 40 0.1547
```



```
##  

## -----  

## CHECKING FEATURE:VEHICLE_MANEUVER  

## DATA:All 2017-Only 2017-Homologated.csv...  

##  

## Number of Blank Values:0  

##  

## Summary as Factor Feature:  

##  

## Number of Features: 16  

##  

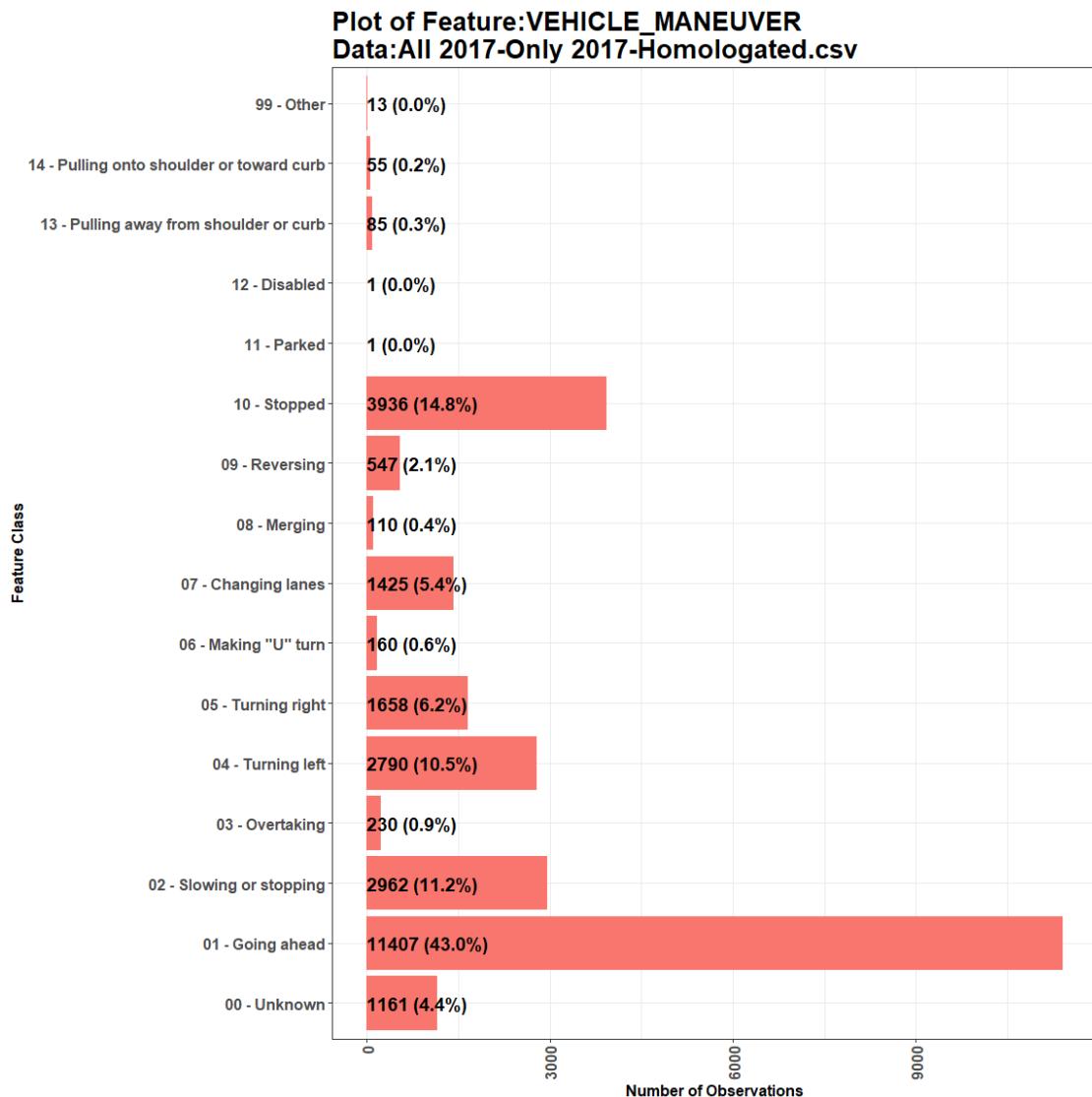
## TOP 100 FEATURES OF VEHICLE_MANEUVER  

##  

## Feature Value Counter Percentage  

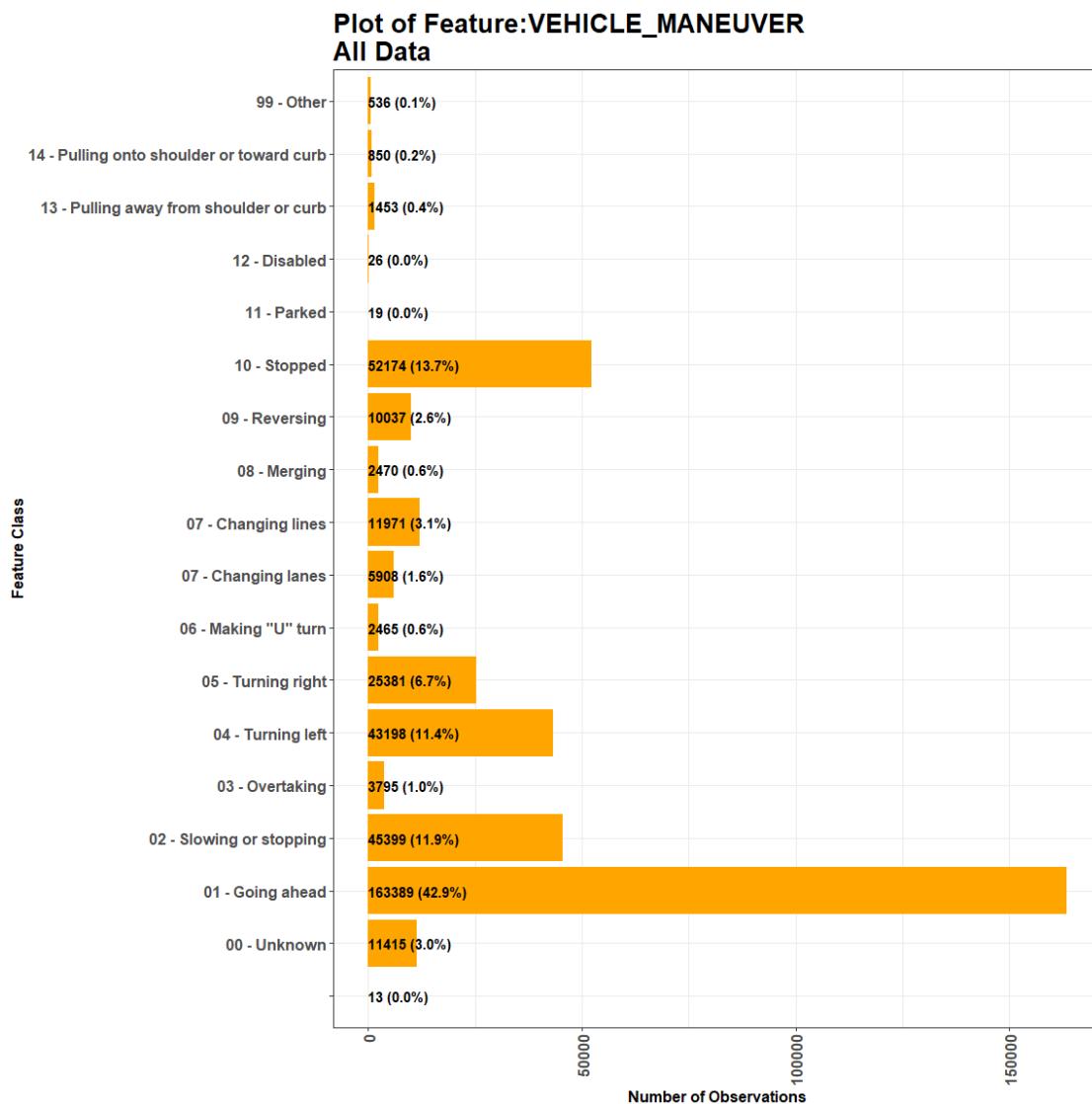
## -----
```

## 00 - Unknown	1161	4.3744
## 01 - Going ahead	11407	42.9788
## 02 - Slowing or stopping	2962	11.1601
## 03 - Overtaking	230	0.8666
## 04 - Turning left	2790	10.5120
## 05 - Turning right	1658	6.2469
## 06 - Making "U" turn	160	0.6028
## 07 - Changing lanes	1425	5.3691
## 08 - Merging	110	0.4145
## 09 - Reversing	547	2.0610
## 10 - Stopped	3936	14.8299
## 11 - Parked	1	0.0038
## 12 - Disabled	1	0.0038
## 13 - Pulling away from shoulder or curb	85	0.3203
## 14 - Pulling onto shoulder or toward curb	55	0.2072
## 99 - Other	13	0.0490



```
##
## =====
## FINAL INFO CHECKING FEATURE:VEHICLE_MANEUVER
## ALL DATA...
## =====
## Number of Blank Values:13
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                                     25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                                     26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                                     28502          28453
```

```
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 27483 27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 26530 27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 27292 27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 25858 26541
##
##
## Summary as Factor Feature:
## Number of Features: 18
```

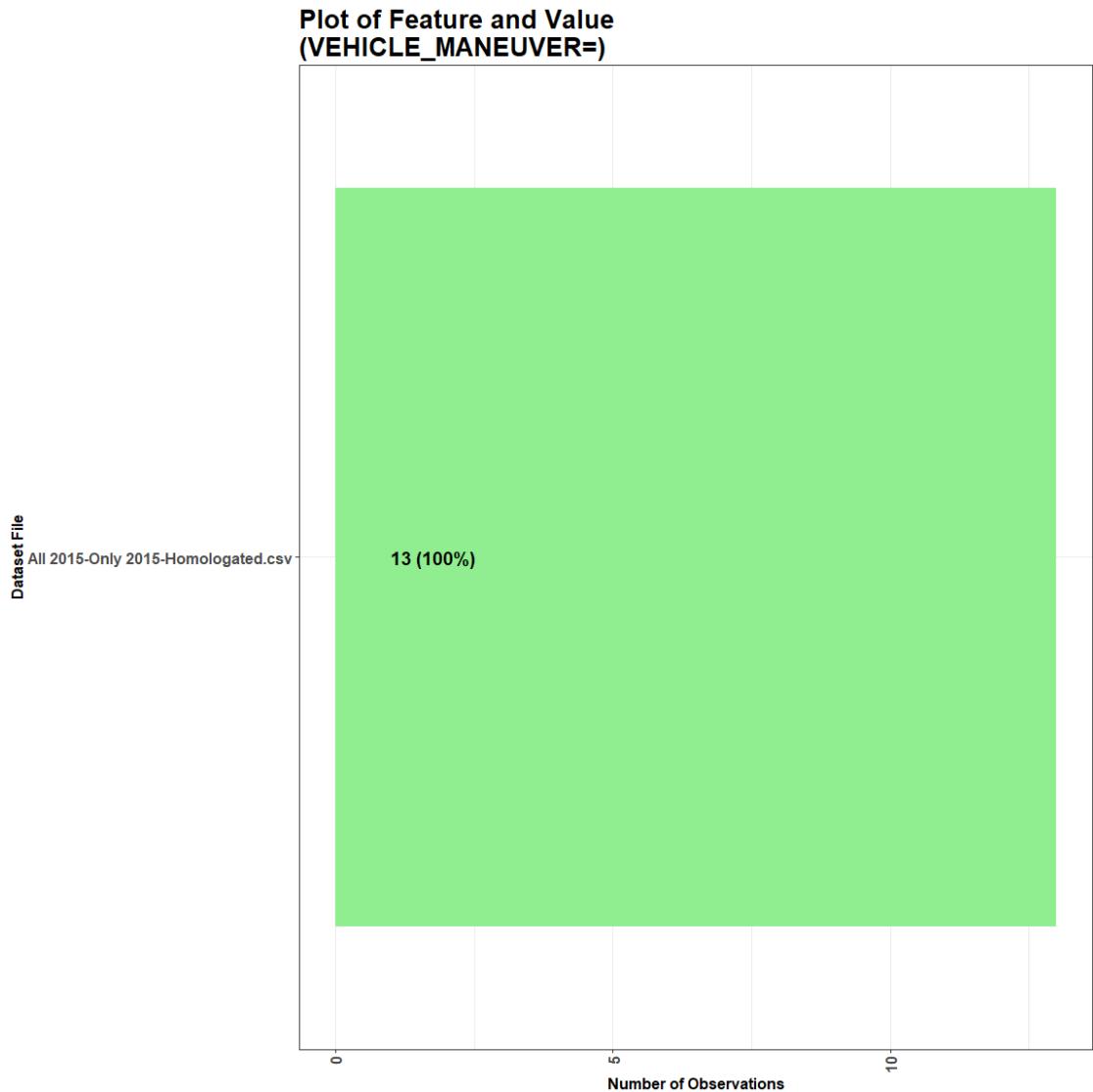


```
## [1] "TOP 100 FEATURES COUNTERS OF:VEHICLE_MANEUVER"
```

Feature Value	Counter	Percentage
	13	0.0034
00 - Unknown	11415	3.0000
01 - Going ahead	163389	42.9407
02 - Slowing or stopping	45399	11.9314
03 - Overtaking	3795	0.9974
04 - Turning left	43198	11.3530
05 - Turning right	25381	6.6705
06 - Making "U" turn	2465	0.6478
07 - Changing lanes	5908	1.5527
07 - Changing lines	11971	3.1461
08 - Merging	2470	0.6491
09 - Reversing	10037	2.6379
10 - Stopped	52174	13.7120
11 - Parked	19	0.0050
12 - Disabled	26	0.0068
13 - Pulling away from shoulder or curb	1453	0.3819
14 - Pulling onto shoulder or toward curb	850	0.2234
99 - Other	536	0.1409

26.1 VEHICLE_MANEUVER = "" (Blank)

```
##  
## ======  
## CHECKING FEATURE AND VALUE (VEHICLE_MANEUVER=)  
##  
## Summary per Data File:  
## All 2015-Only 2015-Homologated.csv  
## 13
```

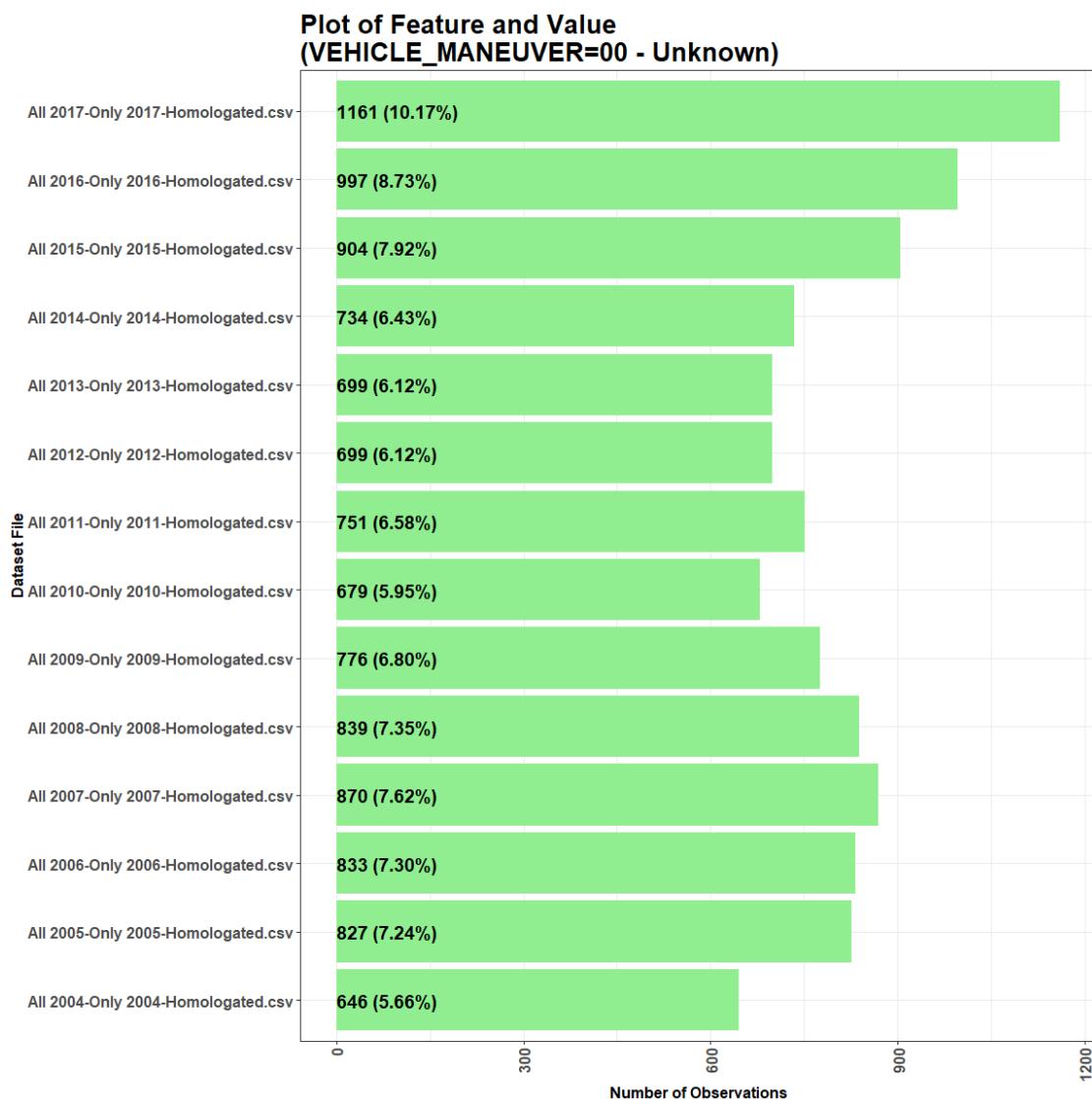


DATASET FILE	COUNTER OF (VEHICLE_MANEUVER=)		Percentage
	Count	Percentage	
All 2015-Only 2015-Homologated.csv	13	100	

26.2 VEHICLE_MANEUVER = “00 - Unknown”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (VEHICLE_MANEUVER=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 646 827  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
```

```
##                      833                      870
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                      839                      776
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                      679                      751
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                      699                      699
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                      734                      904
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                      997                     1161
##
```



COUNTER OF (VEHICLE_MANEUVER=00 -
DATASET FILE Unknown) Percentage

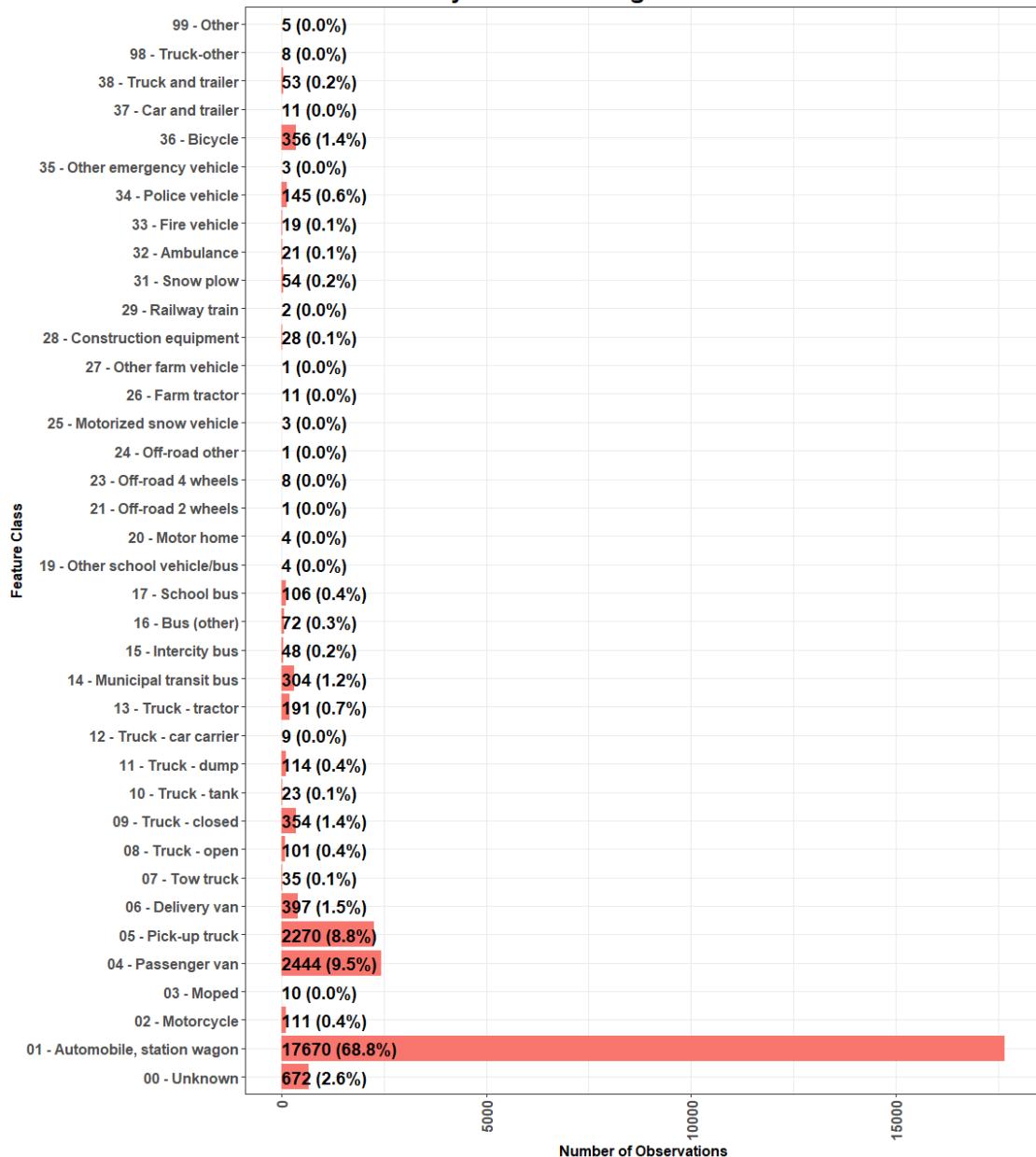
All 2004-Only 2004-Homologated.csv	646	5.659
All 2005-Only 2005-Homologated.csv	827	7.245
All 2006-Only 2006-Homologated.csv	833	7.297
All 2007-Only 2007-Homologated.csv	870	7.622
All 2008-Only 2008-Homologated.csv	839	7.350
All 2009-Only 2009-Homologated.csv	776	6.798
All 2010-Only 2010-Homologated.csv	679	5.948
All 2011-Only 2011-Homologated.csv	751	6.579
All 2012-Only 2012-Homologated.csv	699	6.123
All 2013-Only 2013-Homologated.csv	699	6.123
All 2014-Only 2014-Homologated.csv	734	6.430
All 2015-Only 2015-Homologated.csv	904	7.919
All 2016-Only 2016-Homologated.csv	997	8.734
All 2017-Only 2017-Homologated.csv	1161	10.171

27. Vehicle Type (VEHICLE_TYPE)

```
## 
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2004-Only 2004-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 38
## 
```

```
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value          Counter    Percentage
## -----
## 00 - Unknown           672        2.6179
## 01 - Automobile, station wagon 17670      68.8379
## 02 - Motorcycle         111        0.4324
## 03 - Moped              10         0.0390
## 04 - Passenger van     2444       9.5212
## 05 - Pick-up truck     2270       8.8434
## 06 - Delivery van      397        1.5466
## 07 - Tow truck           35         0.1364
## 08 - Truck - open       101        0.3935
## 09 - Truck - closed     354        1.3791
## 10 - Truck - tank       23         0.0896
## 11 - Truck - dump       114        0.4441
## 12 - Truck - car carrier 9          0.0351
## 13 - Truck - tractor    191        0.7441
## 14 - Municipal transit bus 304       1.1843
## 15 - Intercity bus      48         0.1870
## 16 - Bus (other)        72         0.2805
## 17 - School bus          106       0.4129
## 19 - Other school vehicle/bus 4          0.0156
## 20 - Motor home           4         0.0156
## 21 - Off-road 2 wheels    1          0.0039
## 23 - Off-road 4 wheels    8          0.0312
## 24 - Off-road other       1          0.0039
## 25 - Motorized snow vehicle 3          0.0117
## 26 - Farm tractor         11        0.0429
## 27 - Other farm vehicle   1          0.0039
## 28 - Construction equipment 28        0.1091
## 29 - Railway train         2          0.0078
## 31 - Snow plow             54        0.2104
## 32 - Ambulance              21        0.0818
## 33 - Fire vehicle            19        0.0740
## 34 - Police vehicle         145       0.5649
## 35 - Other emergency vehicle 3          0.0117
## 36 - Bicycle                356       1.3869
## 37 - Car and trailer         11        0.0429
## 38 - Truck and trailer       53        0.2065
## 98 - Truck-other              8         0.0312
## 99 - Other                   5         0.0195
```

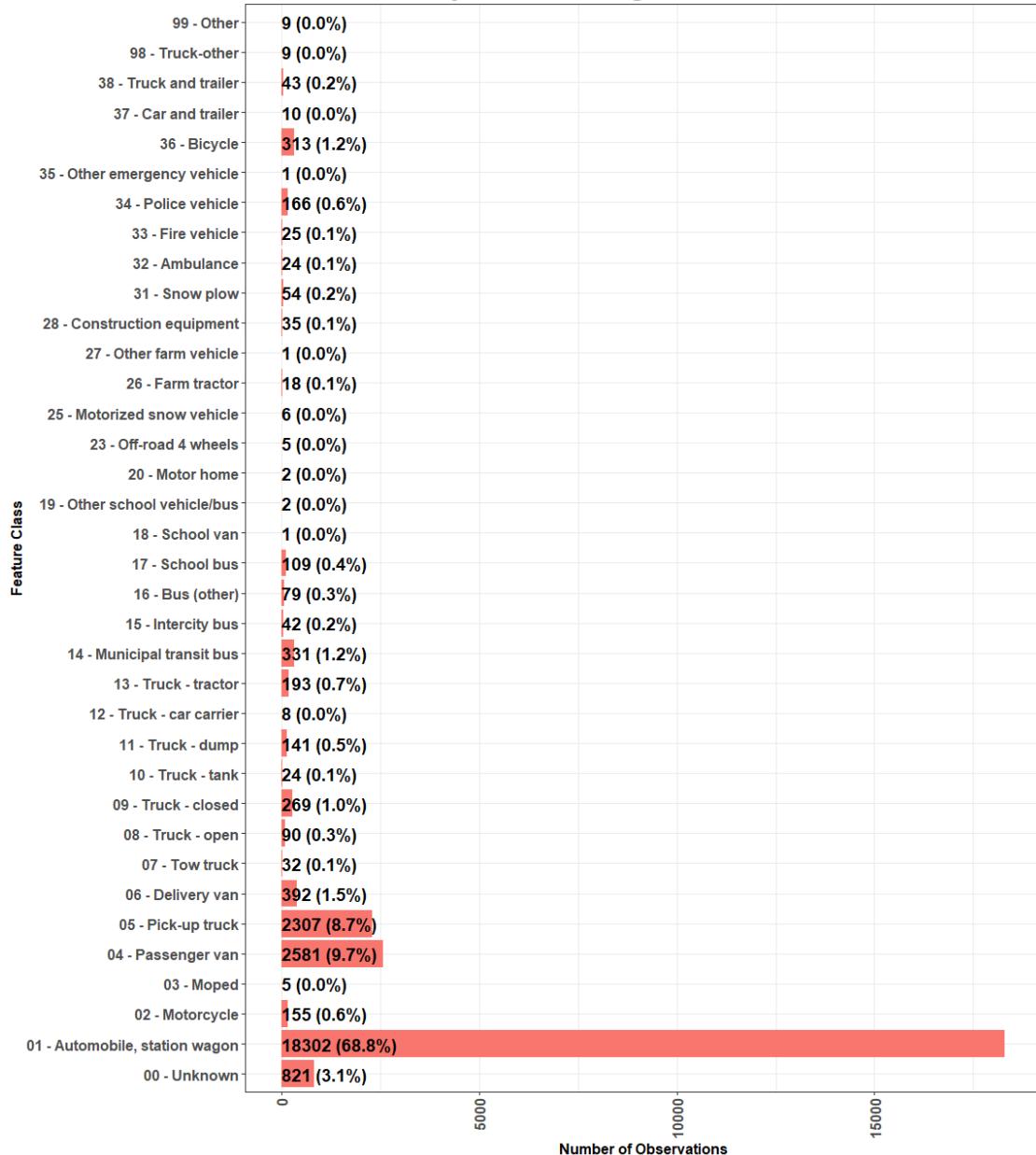
Plot of Feature:VEHICLE_TYPE Data:All 2004-Only 2004-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 36
```

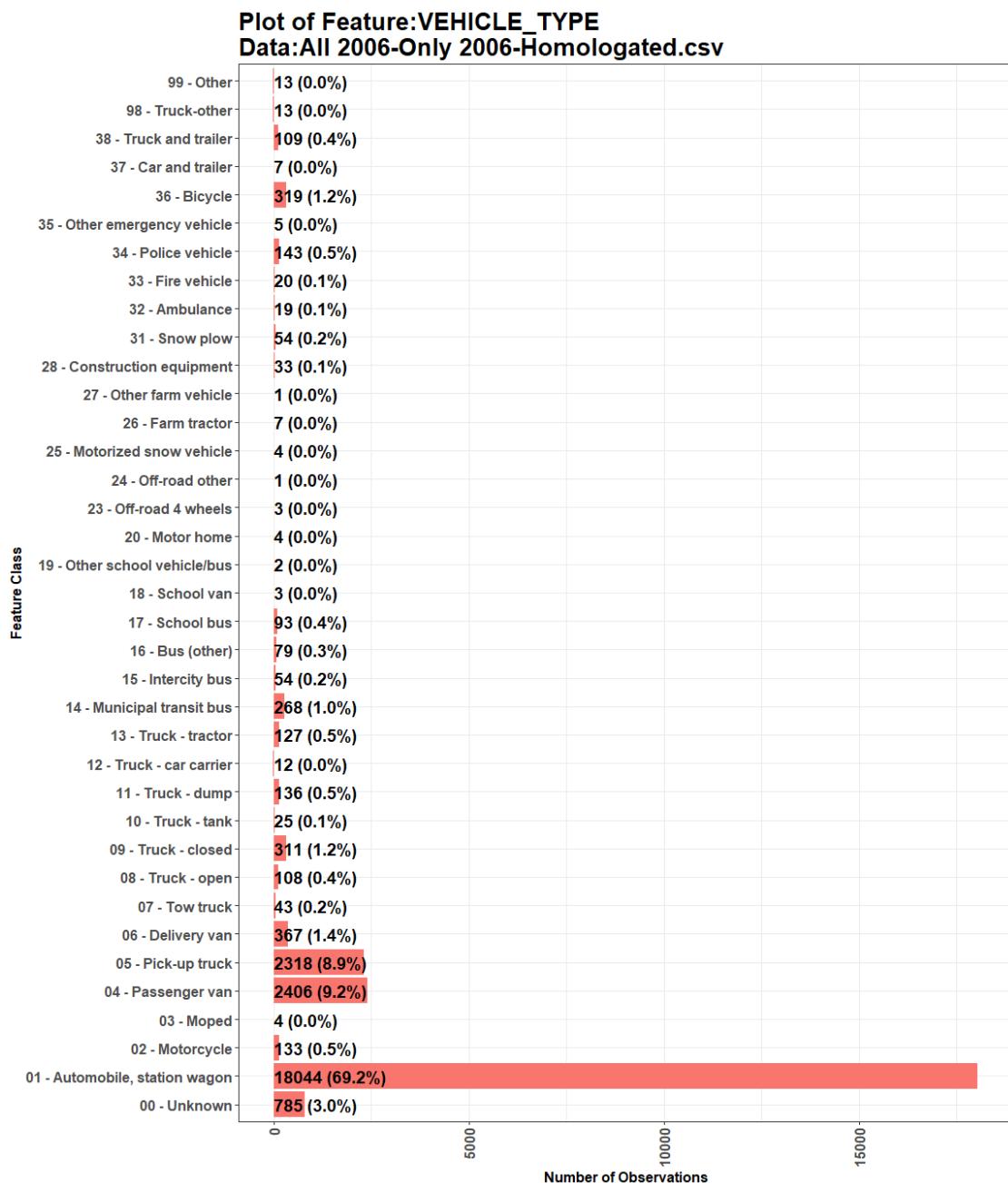
```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 821 3.0859
## 01 - Automobile, station wagon 18302 68.7916
## 02 - Motorcycle 155 0.5826
## 03 - Moped 5 0.0188
## 04 - Passenger van 2581 9.7012
## 05 - Pick-up truck 2307 8.6713
## 06 - Delivery van 392 1.4734
## 07 - Tow truck 32 0.1203
## 08 - Truck - open 90 0.3383
## 09 - Truck - closed 269 1.0111
## 10 - Truck - tank 24 0.0902
## 11 - Truck - dump 141 0.5300
## 12 - Truck - car carrier 8 0.0301
## 13 - Truck - tractor 193 0.7254
## 14 - Municipal transit bus 331 1.2441
## 15 - Intercity bus 42 0.1579
## 16 - Bus (other) 79 0.2969
## 17 - School bus 109 0.4097
## 18 - School van 1 0.0038
## 19 - Other school vehicle/bus 2 0.0075
## 20 - Motor home 2 0.0075
## 23 - Off-road 4 wheels 5 0.0188
## 25 - Motorized snow vehicle 6 0.0226
## 26 - Farm tractor 18 0.0677
## 27 - Other farm vehicle 1 0.0038
## 28 - Construction equipment 35 0.1316
## 31 - Snow plow 54 0.2030
## 32 - Ambulance 24 0.0902
## 33 - Fire vehicle 25 0.0940
## 34 - Police vehicle 166 0.6239
## 35 - Other emergency vehicle 1 0.0038
## 36 - Bicycle 313 1.1765
## 37 - Car and trailer 10 0.0376
## 38 - Truck and trailer 43 0.1616
## 98 - Truck-other 9 0.0338
## 99 - Other 9 0.0338
```

Plot of Feature:VEHICLE_TYPE
Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 37
```

```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 785 3.0108
## 01 - Automobile, station wagon 18044 69.2057
## 02 - Motorcycle 133 0.5101
## 03 - Moped 4 0.0153
## 04 - Passenger van 2406 9.2279
## 05 - Pick-up truck 2318 8.8904
## 06 - Delivery van 367 1.4076
## 07 - Tow truck 43 0.1649
## 08 - Truck - open 108 0.4142
## 09 - Truck - closed 311 1.1928
## 10 - Truck - tank 25 0.0959
## 11 - Truck - dump 136 0.5216
## 12 - Truck - car carrier 12 0.0460
## 13 - Truck - tractor 127 0.4871
## 14 - Municipal transit bus 268 1.0279
## 15 - Intercity bus 54 0.2071
## 16 - Bus (other) 79 0.3030
## 17 - School bus 93 0.3567
## 18 - School van 3 0.0115
## 19 - Other school vehicle/bus 2 0.0077
## 20 - Motor home 4 0.0153
## 23 - Off-road 4 wheels 3 0.0115
## 24 - Off-road other 1 0.0038
## 25 - Motorized snow vehicle 4 0.0153
## 26 - Farm tractor 7 0.0268
## 27 - Other farm vehicle 1 0.0038
## 28 - Construction equipment 33 0.1266
## 31 - Snow plow 54 0.2071
## 32 - Ambulance 19 0.0729
## 33 - Fire vehicle 20 0.0767
## 34 - Police vehicle 143 0.5485
## 35 - Other emergency vehicle 5 0.0192
## 36 - Bicycle 319 1.2235
## 37 - Car and trailer 7 0.0268
## 38 - Truck and trailer 109 0.4181
## 98 - Truck-other 13 0.0499
## 99 - Other 13 0.0499
```

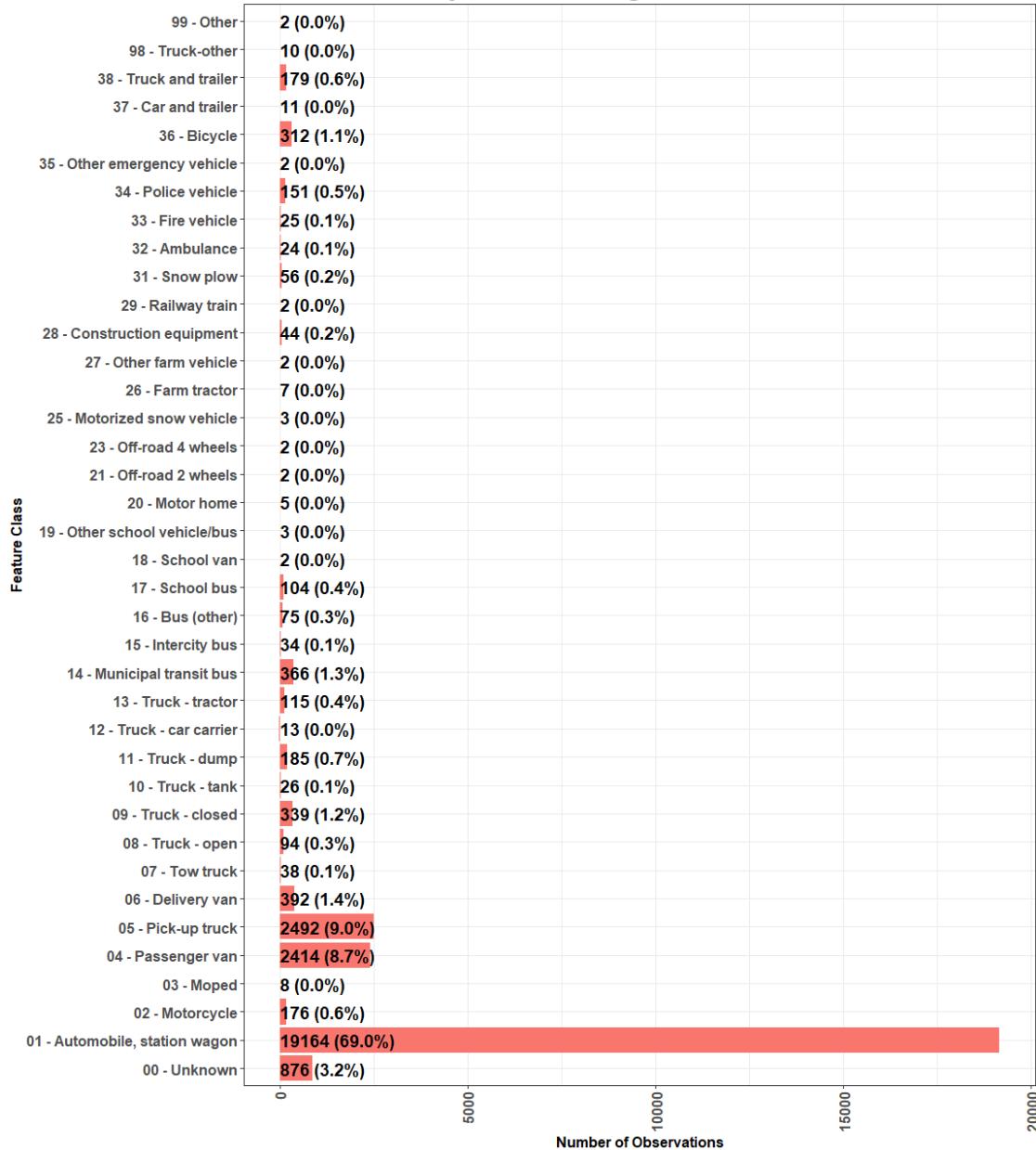


```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 38
```



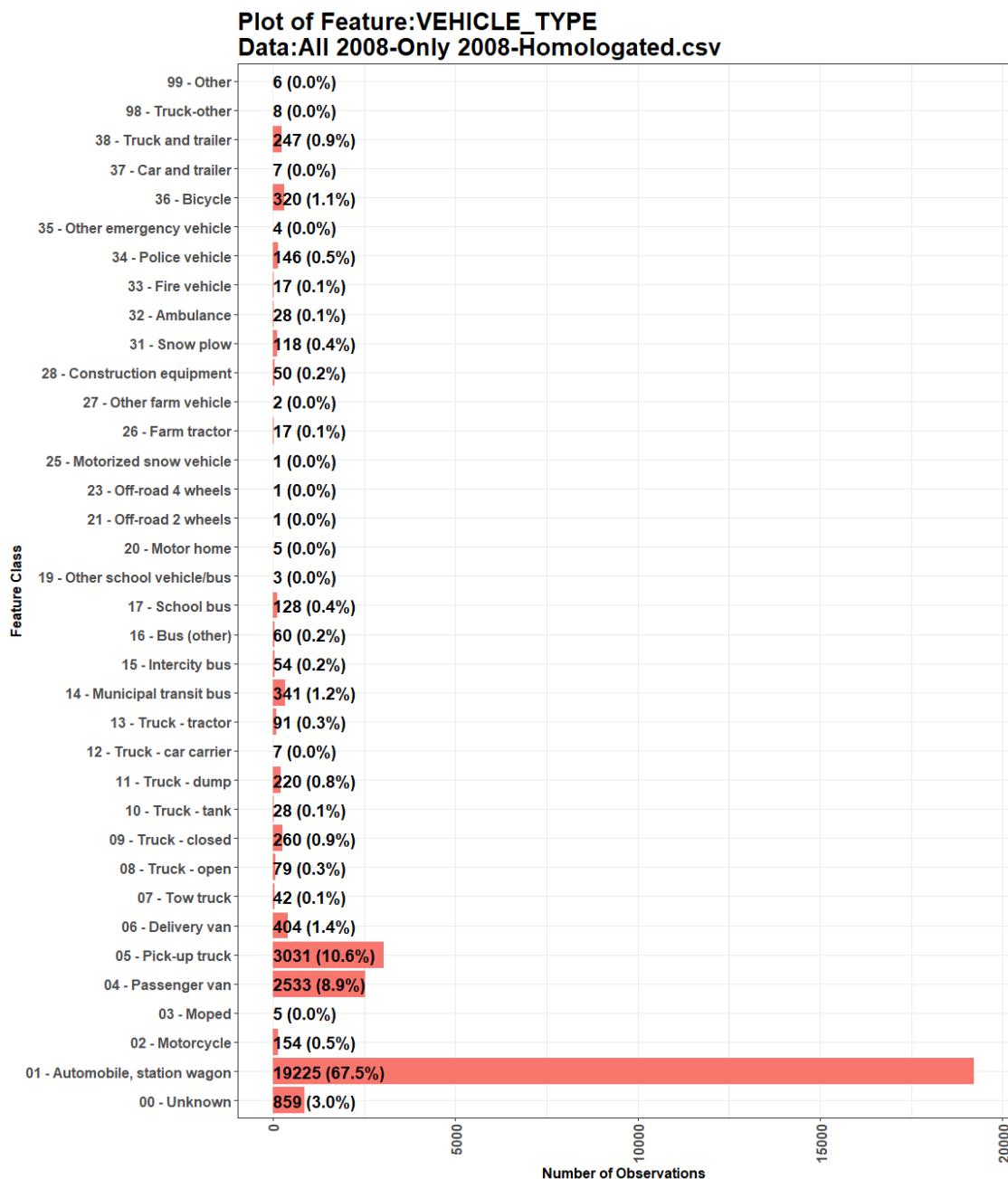
```
##  
## TOP 100 FEATURES OF VEHICLE_TYPE  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 876 3.1562  
## 01 - Automobile, station wagon 19164 69.0470  
## 02 - Motorcycle 176 0.6341  
## 03 - Moped 8 0.0288  
## 04 - Passenger van 2414 8.6975  
## 05 - Pick-up truck 2492 8.9786  
## 06 - Delivery van 392 1.4124  
## 07 - Tow truck 38 0.1369  
## 08 - Truck - open 94 0.3387  
## 09 - Truck - closed 339 1.2214  
## 10 - Truck - tank 26 0.0937  
## 11 - Truck - dump 185 0.6665  
## 12 - Truck - car carrier 13 0.0468  
## 13 - Truck - tractor 115 0.4143  
## 14 - Municipal transit bus 366 1.3187  
## 15 - Intercity bus 34 0.1225  
## 16 - Bus (other) 75 0.2702  
## 17 - School bus 104 0.3747  
## 18 - School van 2 0.0072  
## 19 - Other school vehicle/bus 3 0.0108  
## 20 - Motor home 5 0.0180  
## 21 - Off-road 2 wheels 2 0.0072  
## 23 - Off-road 4 wheels 2 0.0072  
## 25 - Motorized snow vehicle 3 0.0108  
## 26 - Farm tractor 7 0.0252  
## 27 - Other farm vehicle 2 0.0072  
## 28 - Construction equipment 44 0.1585  
## 29 - Railway train 2 0.0072  
## 31 - Snow plow 56 0.2018  
## 32 - Ambulance 24 0.0865  
## 33 - Fire vehicle 25 0.0901  
## 34 - Police vehicle 151 0.5440  
## 35 - Other emergency vehicle 2 0.0072  
## 36 - Bicycle 312 1.1241  
## 37 - Car and trailer 11 0.0396  
## 38 - Truck and trailer 179 0.6449  
## 98 - Truck-other 10 0.0360  
## 99 - Other 2 0.0072
```

Plot of Feature:VEHICLE_TYPE
Data:All 2007-Only 2007-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 36
```

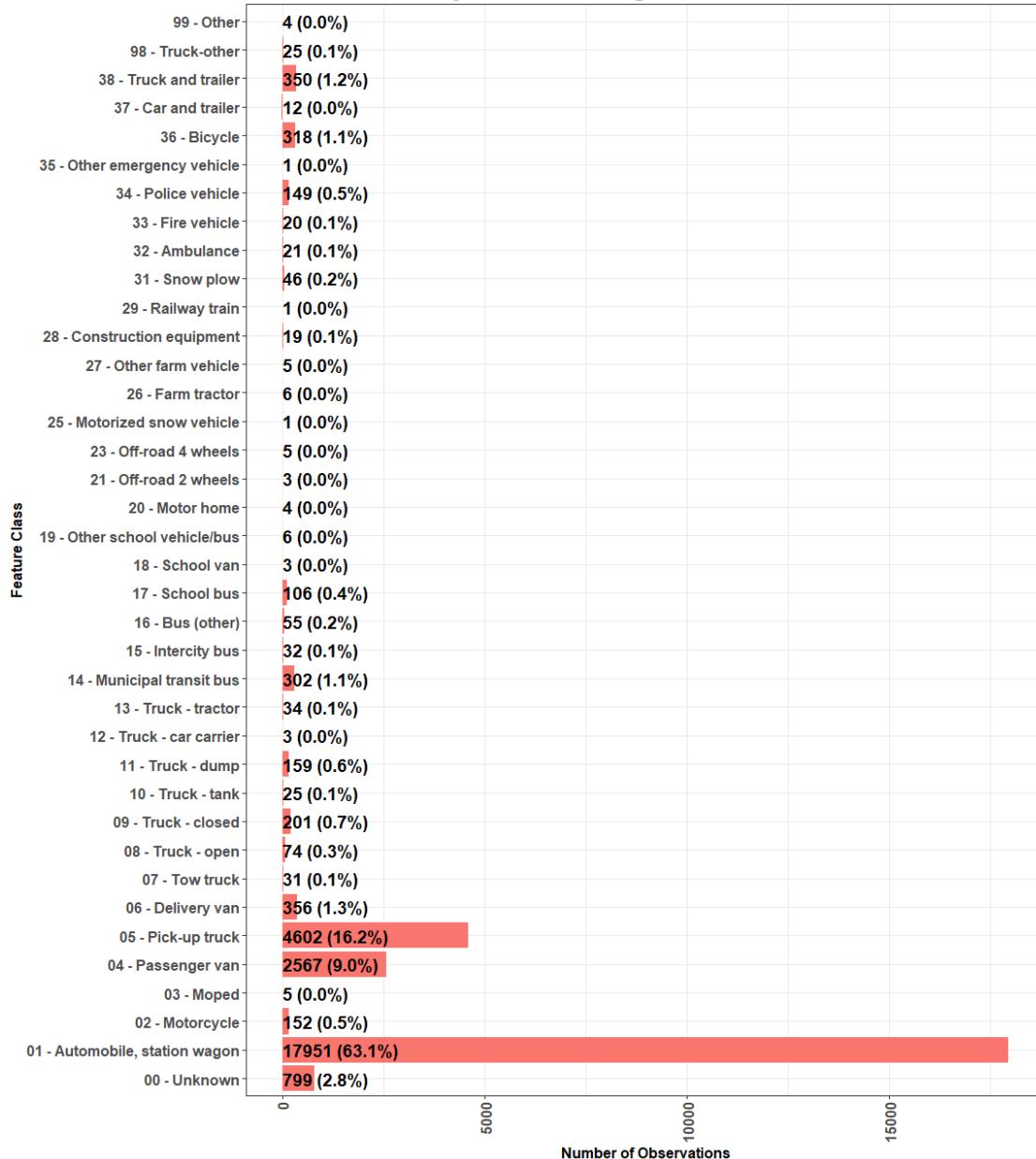
```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 859 3.0138
## 01 - Automobile, station wagon 19225 67.4514
## 02 - Motorcycle 154 0.5403
## 03 - Moped 5 0.0175
## 04 - Passenger van 2533 8.8871
## 05 - Pick-up truck 3031 10.6343
## 06 - Delivery van 404 1.4174
## 07 - Tow truck 42 0.1474
## 08 - Truck - open 79 0.2772
## 09 - Truck - closed 260 0.9122
## 10 - Truck - tank 28 0.0982
## 11 - Truck - dump 220 0.7719
## 12 - Truck - car carrier 7 0.0246
## 13 - Truck - tractor 91 0.3193
## 14 - Municipal transit bus 341 1.1964
## 15 - Intercity bus 54 0.1895
## 16 - Bus (other) 60 0.2105
## 17 - School bus 128 0.4491
## 19 - Other school vehicle/bus 3 0.0105
## 20 - Motor home 5 0.0175
## 21 - Off-road 2 wheels 1 0.0035
## 23 - Off-road 4 wheels 1 0.0035
## 25 - Motorized snow vehicle 1 0.0035
## 26 - Farm tractor 17 0.0596
## 27 - Other farm vehicle 2 0.0070
## 28 - Construction equipment 50 0.1754
## 31 - Snow plow 118 0.4140
## 32 - Ambulance 28 0.0982
## 33 - Fire vehicle 17 0.0596
## 34 - Police vehicle 146 0.5122
## 35 - Other emergency vehicle 4 0.0140
## 36 - Bicycle 320 1.1227
## 37 - Car and trailer 7 0.0246
## 38 - Truck and trailer 247 0.8666
## 98 - Truck-other 8 0.0281
## 99 - Other 6 0.0211
```



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 38
```

```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 799 2.8081
## 01 - Automobile, station wagon 17951 63.0900
## 02 - Motorcycle 152 0.5342
## 03 - Moped 5 0.0176
## 04 - Passenger van 2567 9.0219
## 05 - Pick-up truck 4602 16.1740
## 06 - Delivery van 356 1.2512
## 07 - Tow truck 31 0.1090
## 08 - Truck - open 74 0.2601
## 09 - Truck - closed 201 0.7064
## 10 - Truck - tank 25 0.0879
## 11 - Truck - dump 159 0.5588
## 12 - Truck - car carrier 3 0.0105
## 13 - Truck - tractor 34 0.1195
## 14 - Municipal transit bus 302 1.0614
## 15 - Intercity bus 32 0.1125
## 16 - Bus (other) 55 0.1933
## 17 - School bus 106 0.3725
## 18 - School van 3 0.0105
## 19 - Other school vehicle/bus 6 0.0211
## 20 - Motor home 4 0.0141
## 21 - Off-road 2 wheels 3 0.0105
## 23 - Off-road 4 wheels 5 0.0176
## 25 - Motorized snow vehicle 1 0.0035
## 26 - Farm tractor 6 0.0211
## 27 - Other farm vehicle 5 0.0176
## 28 - Construction equipment 19 0.0668
## 29 - Railway train 1 0.0035
## 31 - Snow plow 46 0.1617
## 32 - Ambulance 21 0.0738
## 33 - Fire vehicle 20 0.0703
## 34 - Police vehicle 149 0.5237
## 35 - Other emergency vehicle 1 0.0035
## 36 - Bicycle 318 1.1176
## 37 - Car and trailer 12 0.0422
## 38 - Truck and trailer 350 1.2301
## 98 - Truck-other 25 0.0879
## 99 - Other 4 0.0141
```

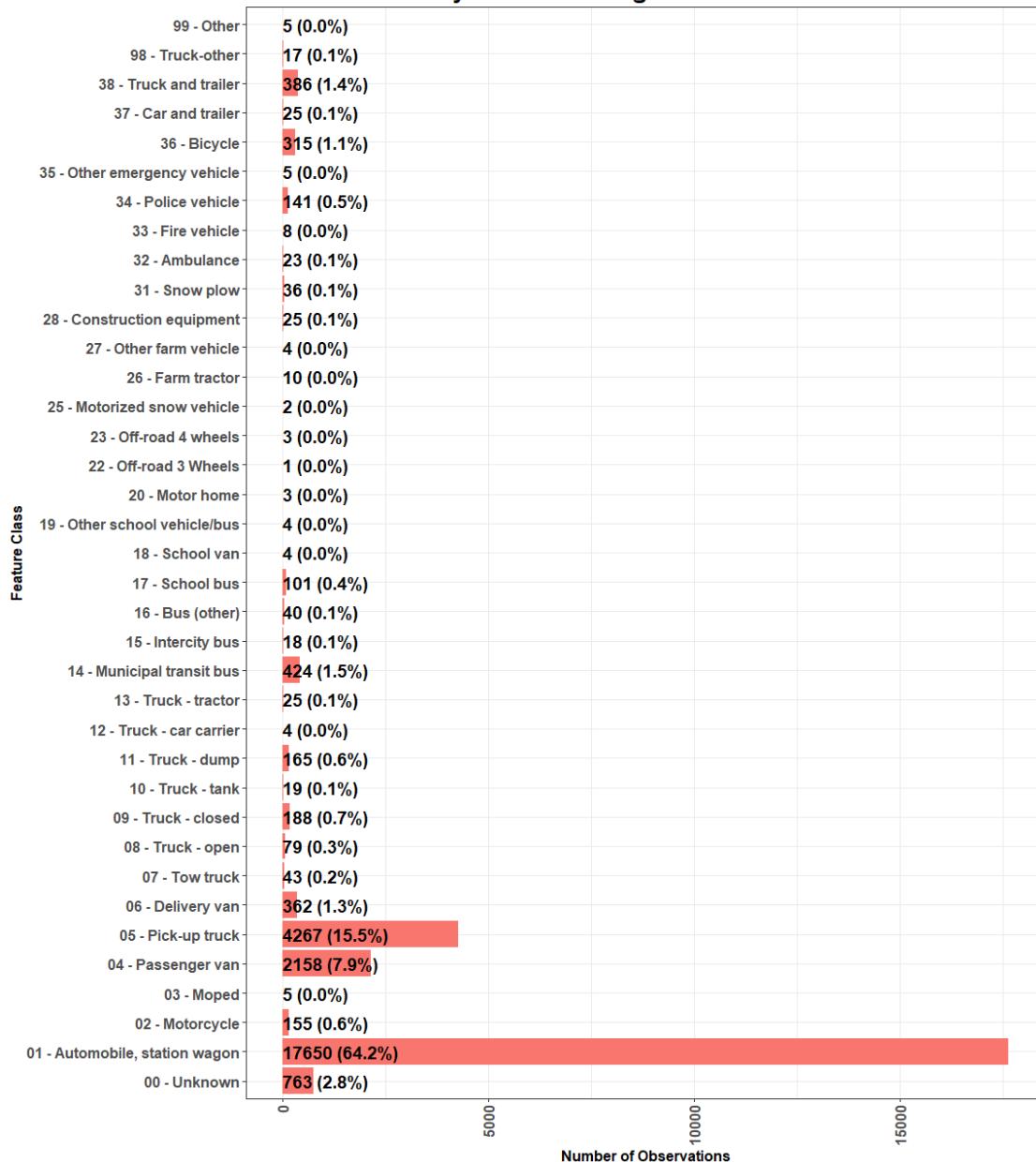
Plot of Feature:VEHICLE_TYPE
Data:All 2009-Only 2009-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 37
```

```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 763 2.7763
## 01 - Automobile, station wagon 17650 64.2215
## 02 - Motorcycle 155 0.5640
## 03 - Moped 5 0.0182
## 04 - Passenger van 2158 7.8521
## 05 - Pick-up truck 4267 15.5260
## 06 - Delivery van 362 1.3172
## 07 - Tow truck 43 0.1565
## 08 - Truck - open 79 0.2875
## 09 - Truck - closed 188 0.6841
## 10 - Truck - tank 19 0.0691
## 11 - Truck - dump 165 0.6004
## 12 - Truck - car carrier 4 0.0146
## 13 - Truck - tractor 25 0.0910
## 14 - Municipal transit bus 424 1.5428
## 15 - Intercity bus 18 0.0655
## 16 - Bus (other) 40 0.1455
## 17 - School bus 101 0.3675
## 18 - School van 4 0.0146
## 19 - Other school vehicle/bus 4 0.0146
## 20 - Motor home 3 0.0109
## 22 - Off-road 3 Wheels 1 0.0036
## 23 - Off-road 4 wheels 3 0.0109
## 25 - Motorized snow vehicle 2 0.0073
## 26 - Farm tractor 10 0.0364
## 27 - Other farm vehicle 4 0.0146
## 28 - Construction equipment 25 0.0910
## 31 - Snow plow 36 0.1310
## 32 - Ambulance 23 0.0837
## 33 - Fire vehicle 8 0.0291
## 34 - Police vehicle 141 0.5130
## 35 - Other emergency vehicle 5 0.0182
## 36 - Bicycle 315 1.1462
## 37 - Car and trailer 25 0.0910
## 38 - Truck and trailer 386 1.4045
## 98 - Truck-other 17 0.0619
## 99 - Other 5 0.0182
```

Plot of Feature:VEHICLE_TYPE
Data:All 2010-Only 2010-Homologated.csv



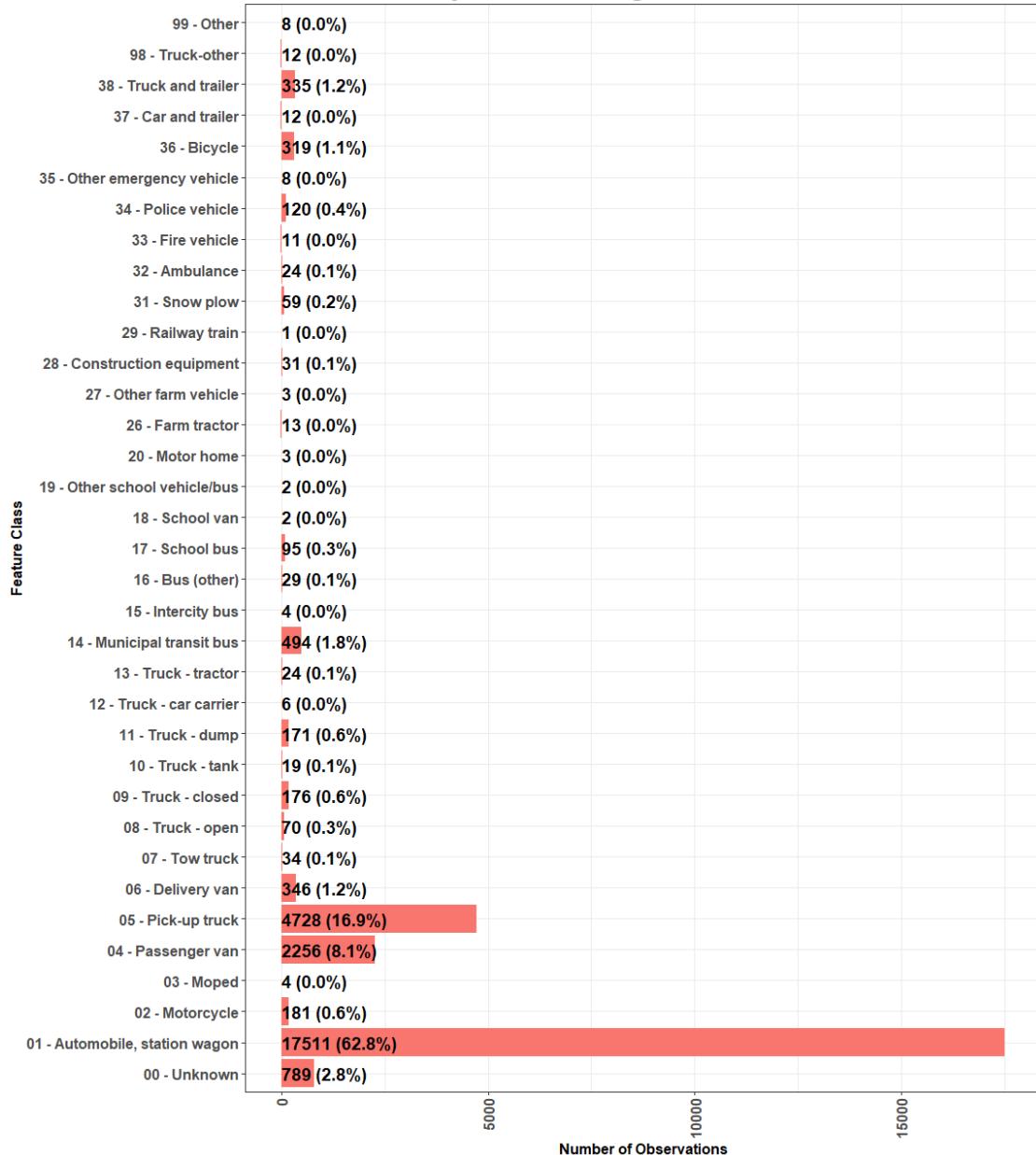
```

## 
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2011-Only 2011-Homologated.csv...
## 
## Number of Blank Values:0
## 
## Summary as Factor Feature:
## 
## Number of Features: 35

```

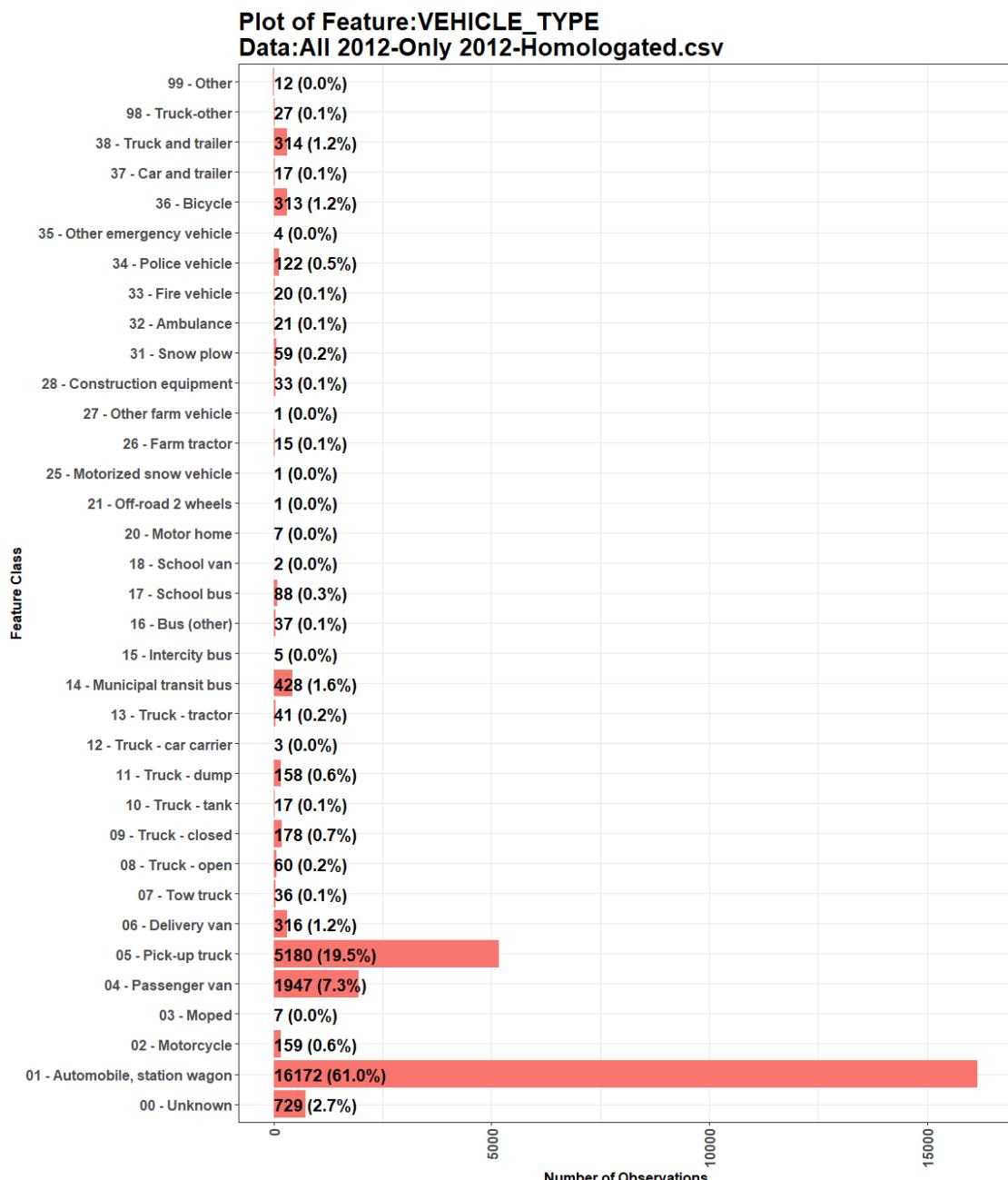
```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 789 2.8280
## 01 - Automobile, station wagon 17511 62.7634
## 02 - Motorcycle 181 0.6487
## 03 - Moped 4 0.0143
## 04 - Passenger van 2256 8.0860
## 05 - Pick-up truck 4728 16.9462
## 06 - Delivery van 346 1.2401
## 07 - Tow truck 34 0.1219
## 08 - Truck - open 70 0.2509
## 09 - Truck - closed 176 0.6308
## 10 - Truck - tank 19 0.0681
## 11 - Truck - dump 171 0.6129
## 12 - Truck - car carrier 6 0.0215
## 13 - Truck - tractor 24 0.0860
## 14 - Municipal transit bus 494 1.7706
## 15 - Intercity bus 4 0.0143
## 16 - Bus (other) 29 0.1039
## 17 - School bus 95 0.3405
## 18 - School van 2 0.0072
## 19 - Other school vehicle/bus 2 0.0072
## 20 - Motor home 3 0.0108
## 26 - Farm tractor 13 0.0466
## 27 - Other farm vehicle 3 0.0108
## 28 - Construction equipment 31 0.1111
## 29 - Railway train 1 0.0036
## 31 - Snow plow 59 0.2115
## 32 - Ambulance 24 0.0860
## 33 - Fire vehicle 11 0.0394
## 34 - Police vehicle 120 0.4301
## 35 - Other emergency vehicle 8 0.0287
## 36 - Bicycle 319 1.1434
## 37 - Car and trailer 12 0.0430
## 38 - Truck and trailer 335 1.2007
## 98 - Truck-other 12 0.0430
## 99 - Other 8 0.0287
```

Plot of Feature:VEHICLE_TYPE
Data:All 2011-Only 2011-Homologated.csv



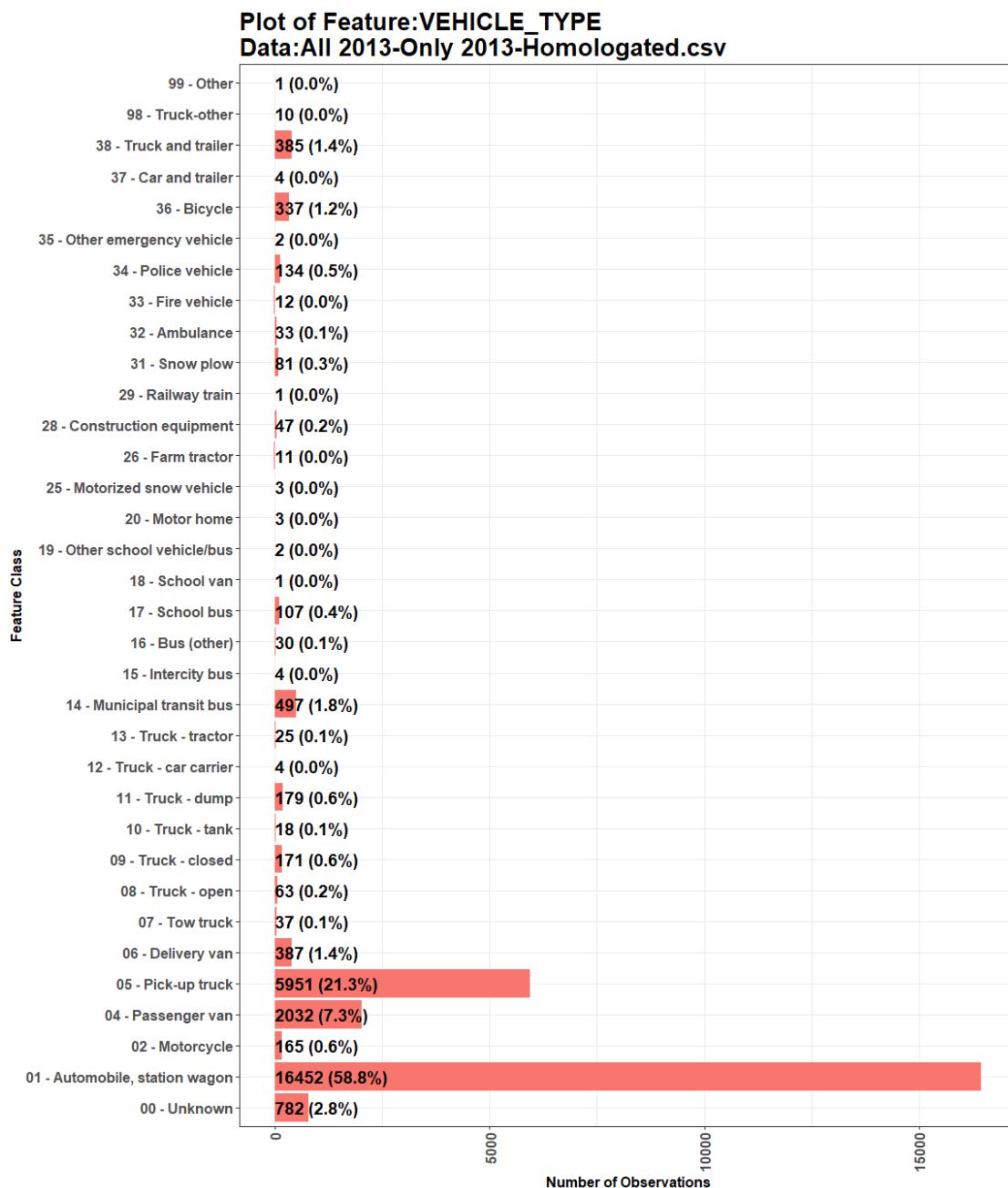
```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 35
```

```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 729 2.7478
## 01 - Automobile, station wagon 16172 60.9574
## 02 - Motorcycle 159 0.5993
## 03 - Moped 7 0.0264
## 04 - Passenger van 1947 7.3389
## 05 - Pick-up truck 5180 19.5251
## 06 - Delivery van 316 1.1911
## 07 - Tow truck 36 0.1357
## 08 - Truck - open 60 0.2262
## 09 - Truck - closed 178 0.6709
## 10 - Truck - tank 17 0.0641
## 11 - Truck - dump 158 0.5956
## 12 - Truck - car carrier 3 0.0113
## 13 - Truck - tractor 41 0.1545
## 14 - Municipal transit bus 428 1.6133
## 15 - Intercity bus 5 0.0188
## 16 - Bus (other) 37 0.1395
## 17 - School bus 88 0.3317
## 18 - School van 2 0.0075
## 20 - Motor home 7 0.0264
## 21 - Off-road 2 wheels 1 0.0038
## 25 - Motorized snow vehicle 1 0.0038
## 26 - Farm tractor 15 0.0565
## 27 - Other farm vehicle 1 0.0038
## 28 - Construction equipment 33 0.1244
## 31 - Snow plow 59 0.2224
## 32 - Ambulance 21 0.0792
## 33 - Fire vehicle 20 0.0754
## 34 - Police vehicle 122 0.4599
## 35 - Other emergency vehicle 4 0.0151
## 36 - Bicycle 313 1.1798
## 37 - Car and trailer 17 0.0641
## 38 - Truck and trailer 314 1.1836
## 98 - Truck-other 27 0.1018
## 99 - Other 12 0.0452
```



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

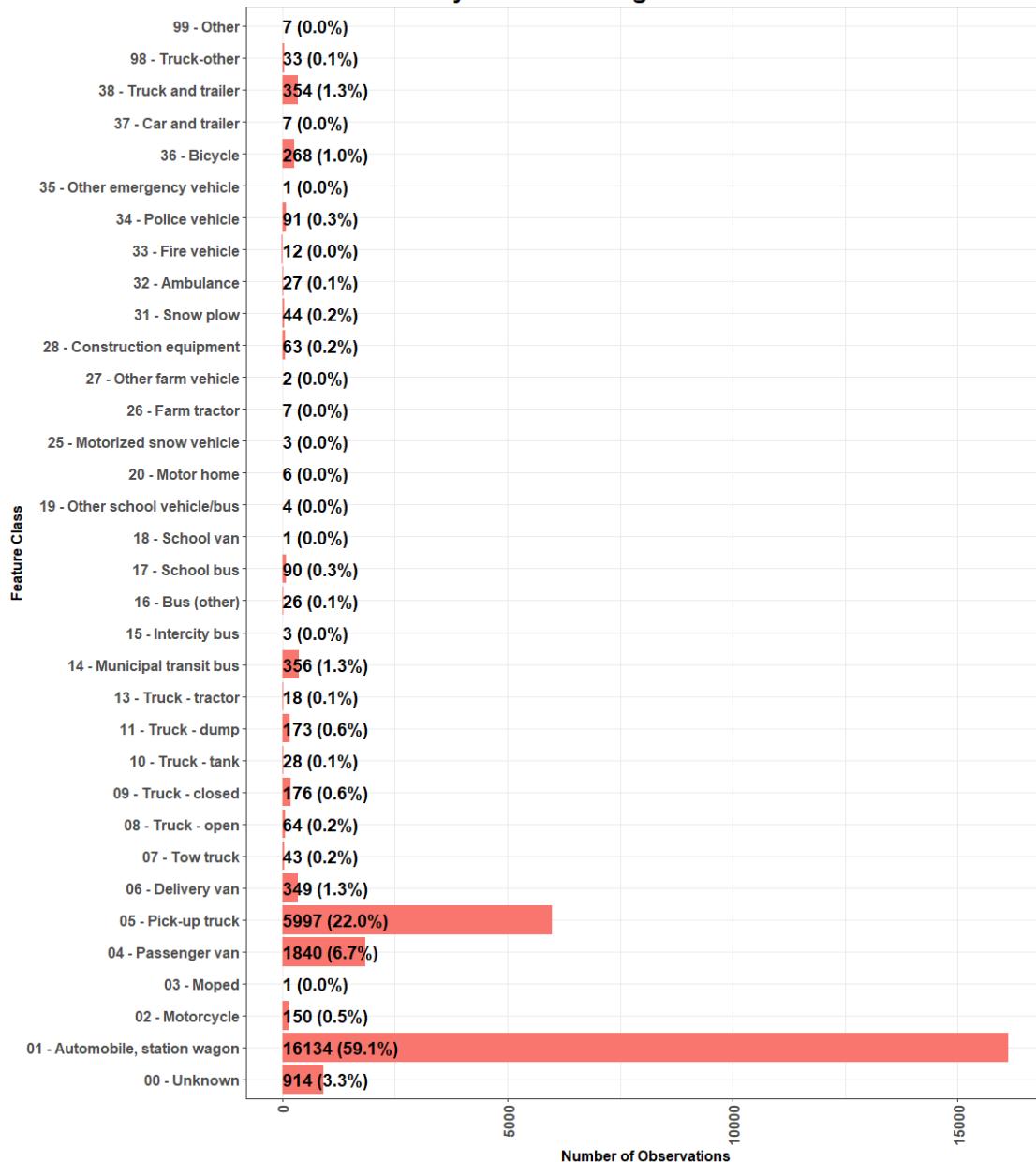
```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 782 2.7958
## 01 - Automobile, station wagon 16452 58.8181
## 02 - Motorcycle 165 0.5899
## 04 - Passenger van 2032 7.2647
## 05 - Pick-up truck 5951 21.2756
## 06 - Delivery van 387 1.3836
## 07 - Tow truck 37 0.1323
## 08 - Truck - open 63 0.2252
## 09 - Truck - closed 171 0.6113
## 10 - Truck - tank 18 0.0644
## 11 - Truck - dump 179 0.6399
## 12 - Truck - car carrier 4 0.0143
## 13 - Truck - tractor 25 0.0894
## 14 - Municipal transit bus 497 1.7768
## 15 - Intercity bus 4 0.0143
## 16 - Bus (other) 30 0.1073
## 17 - School bus 107 0.3825
## 18 - School van 1 0.0036
## 19 - Other school vehicle/bus 2 0.0072
## 20 - Motor home 3 0.0107
## 25 - Motorized snow vehicle 3 0.0107
## 26 - Farm tractor 11 0.0393
## 28 - Construction equipment 47 0.1680
## 29 - Railway train 1 0.0036
## 31 - Snow plow 81 0.2896
## 32 - Ambulance 33 0.1180
## 33 - Fire vehicle 12 0.0429
## 34 - Police vehicle 134 0.4791
## 35 - Other emergency vehicle 2 0.0072
## 36 - Bicycle 337 1.2048
## 37 - Car and trailer 4 0.0143
## 38 - Truck and trailer 385 1.3764
## 98 - Truck-other 10 0.0358
## 99 - Other 1 0.0036
```



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 34
```

```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 914 3.3490
## 01 - Automobile, station wagon 16134 59.1162
## 02 - Motorcycle 150 0.5496
## 03 - Moped 1 0.0037
## 04 - Passenger van 1840 6.7419
## 05 - Pick-up truck 5997 21.9735
## 06 - Delivery van 349 1.2788
## 07 - Tow truck 43 0.1576
## 08 - Truck - open 64 0.2345
## 09 - Truck - closed 176 0.6449
## 10 - Truck - tank 28 0.1026
## 11 - Truck - dump 173 0.6339
## 13 - Truck - tractor 18 0.0660
## 14 - Municipal transit bus 356 1.3044
## 15 - Intercity bus 3 0.0110
## 16 - Bus (other) 26 0.0953
## 17 - School bus 90 0.3298
## 18 - School van 1 0.0037
## 19 - Other school vehicle/bus 4 0.0147
## 20 - Motor home 6 0.0220
## 25 - Motorized snow vehicle 3 0.0110
## 26 - Farm tractor 7 0.0256
## 27 - Other farm vehicle 2 0.0073
## 28 - Construction equipment 63 0.2308
## 31 - Snow plow 44 0.1612
## 32 - Ambulance 27 0.0989
## 33 - Fire vehicle 12 0.0440
## 34 - Police vehicle 91 0.3334
## 35 - Other emergency vehicle 1 0.0037
## 36 - Bicycle 268 0.9820
## 37 - Car and trailer 7 0.0256
## 38 - Truck and trailer 354 1.2971
## 98 - Truck-other 33 0.1209
## 99 - Other 7 0.0256
```

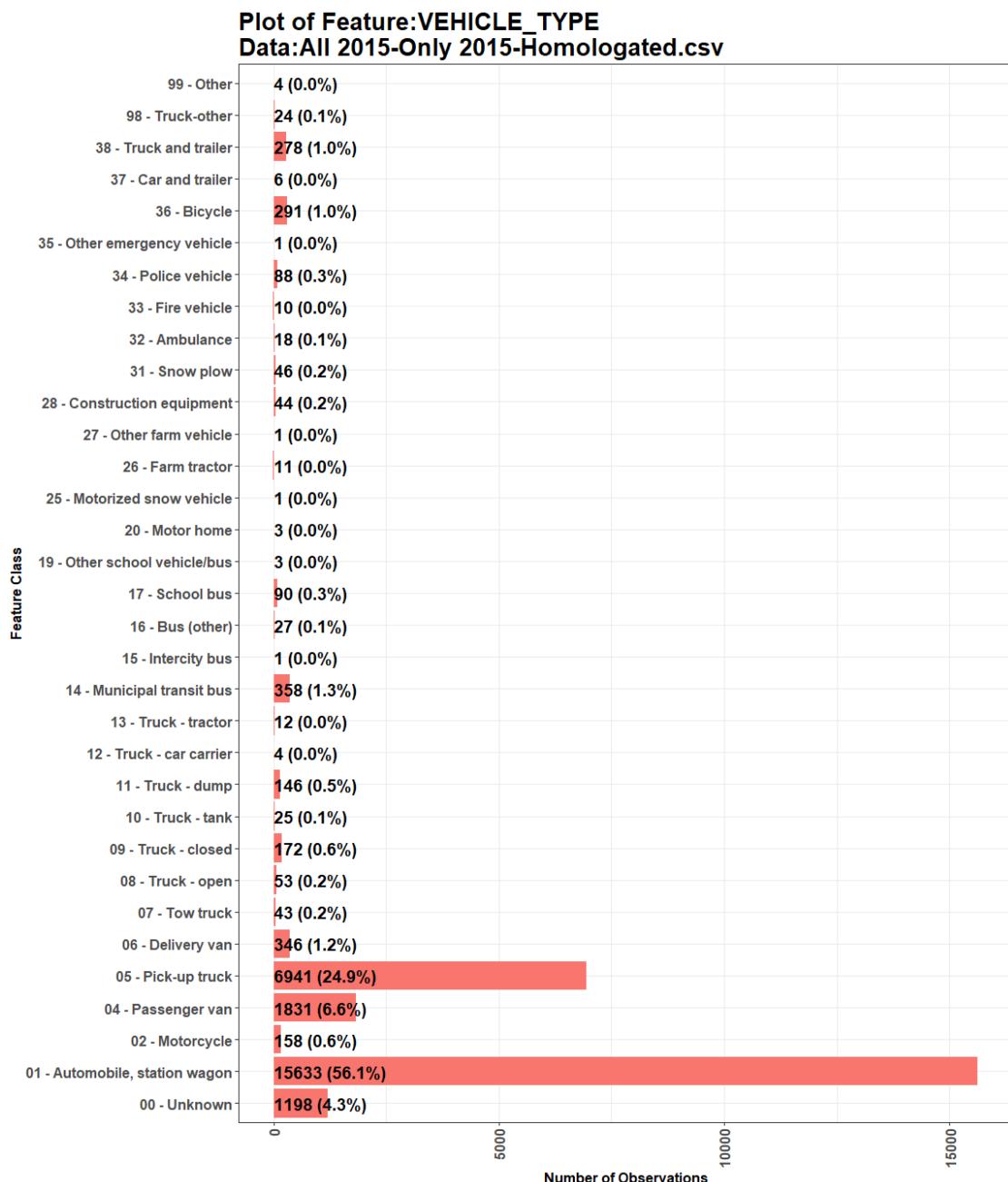
Plot of Feature:VEHICLE_TYPE Data:All 2014-Only 2014-Homologated.csv



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 33
```

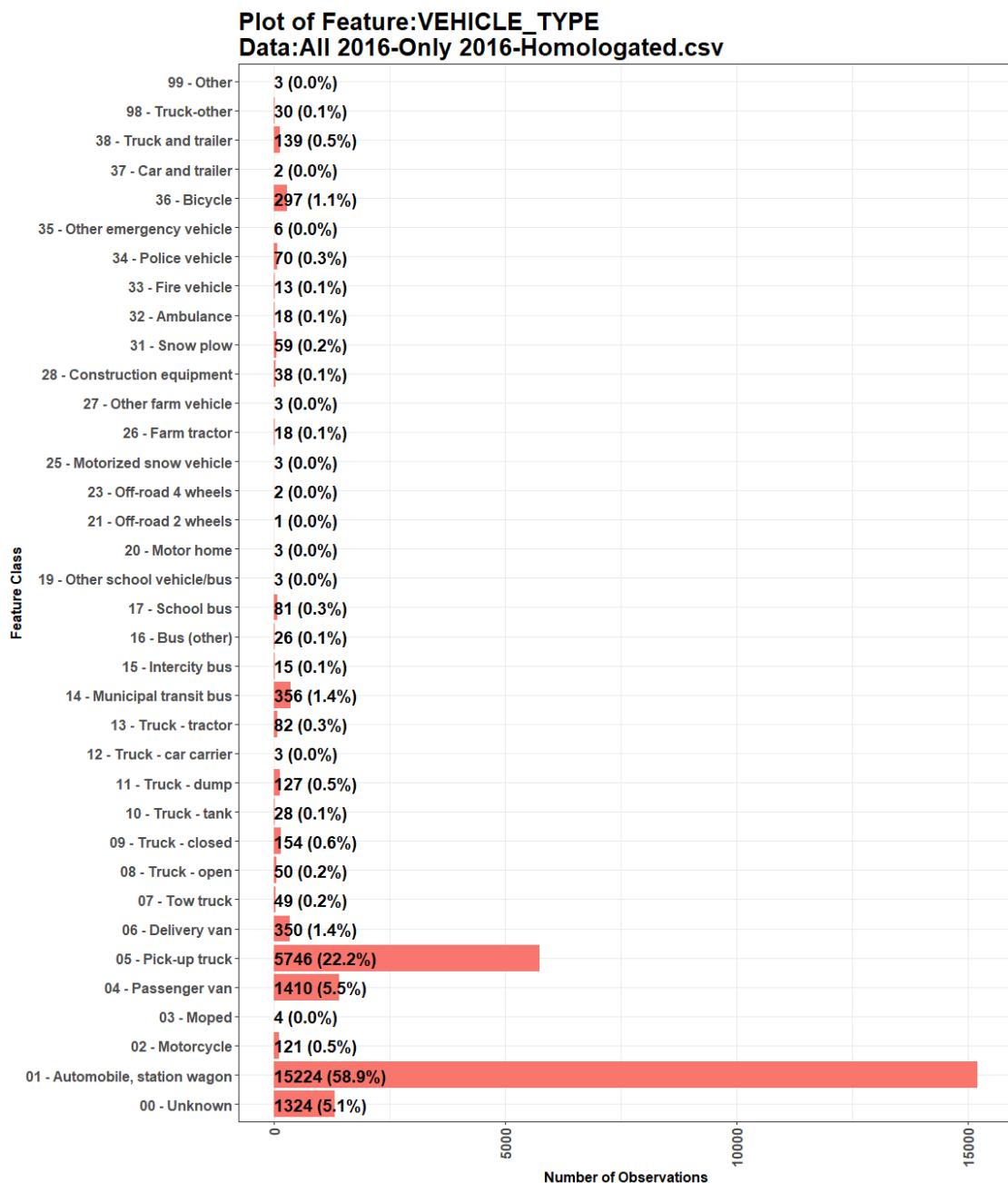


```
##  
## TOP 100 FEATURES OF VEHICLE_TYPE  
##  
## Feature Value Counter Percentage  
## -----  
## 00 - Unknown 1198 4.2990  
## 01 - Automobile, station wagon 15633 56.0986  
## 02 - Motorcycle 158 0.5670  
## 04 - Passenger van 1831 6.5705  
## 05 - Pick-up truck 6941 24.9076  
## 06 - Delivery van 346 1.2416  
## 07 - Tow truck 43 0.1543  
## 08 - Truck - open 53 0.1902  
## 09 - Truck - closed 172 0.6172  
## 10 - Truck - tank 25 0.0897  
## 11 - Truck - dump 146 0.5239  
## 12 - Truck - car carrier 4 0.0144  
## 13 - Truck - tractor 12 0.0431  
## 14 - Municipal transit bus 358 1.2847  
## 15 - Intercity bus 1 0.0036  
## 16 - Bus (other) 27 0.0969  
## 17 - School bus 90 0.3230  
## 19 - Other school vehicle/bus 3 0.0108  
## 20 - Motor home 3 0.0108  
## 25 - Motorized snow vehicle 1 0.0036  
## 26 - Farm tractor 11 0.0395  
## 27 - Other farm vehicle 1 0.0036  
## 28 - Construction equipment 44 0.1579  
## 31 - Snow plow 46 0.1651  
## 32 - Ambulance 18 0.0646  
## 33 - Fire vehicle 10 0.0359  
## 34 - Police vehicle 88 0.3158  
## 35 - Other emergency vehicle 1 0.0036  
## 36 - Bicycle 291 1.0442  
## 37 - Car and trailer 6 0.0215  
## 38 - Truck and trailer 278 0.9976  
## 98 - Truck-other 24 0.0861  
## 99 - Other 4 0.0144
```



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 36
```

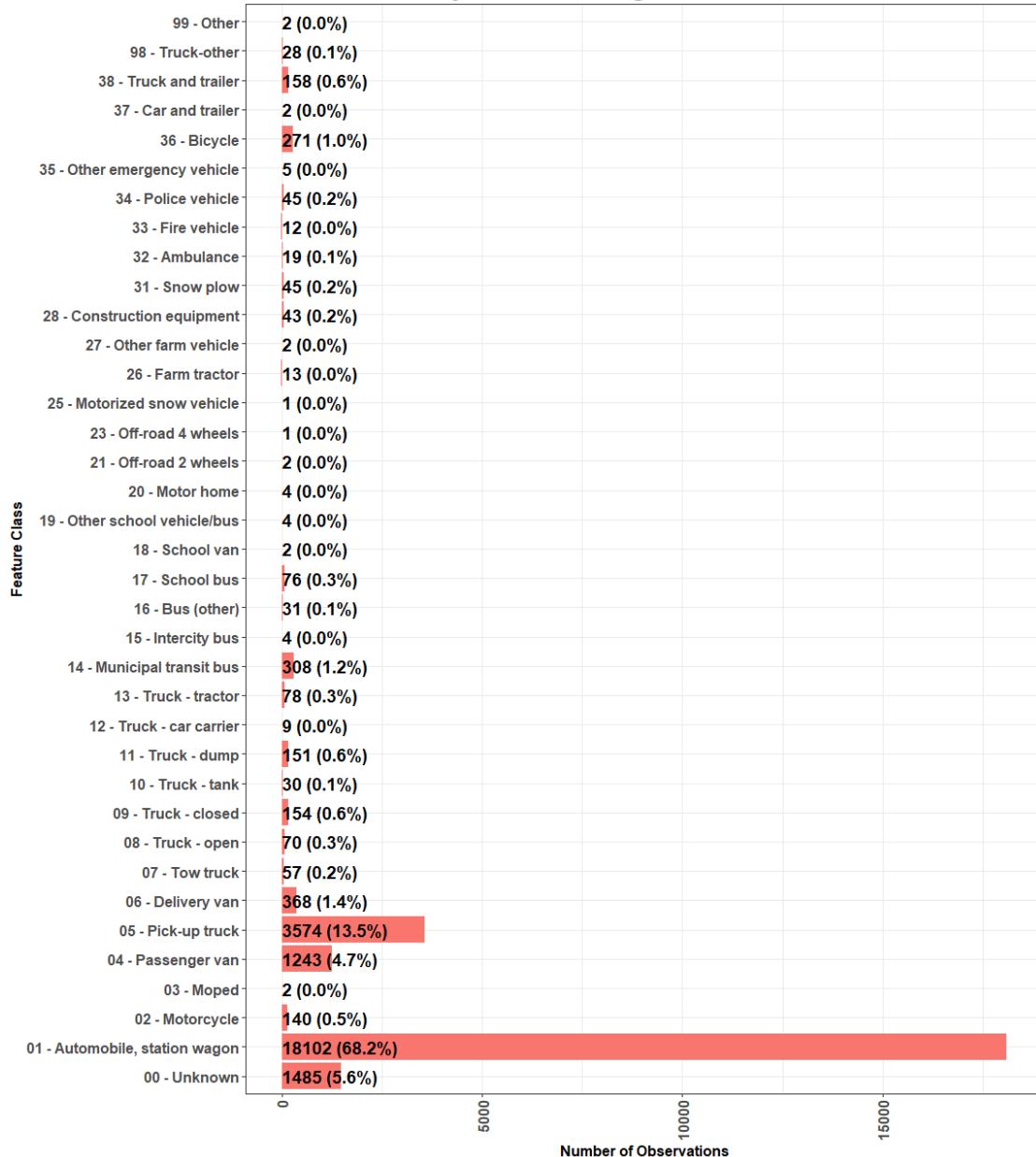
```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1324 5.1203
## 01 - Automobile, station wagon 15224 58.8754
## 02 - Motorcycle 121 0.4679
## 03 - Moped 4 0.0155
## 04 - Passenger van 1410 5.4529
## 05 - Pick-up truck 5746 22.2214
## 06 - Delivery van 350 1.3535
## 07 - Tow truck 49 0.1895
## 08 - Truck - open 50 0.1934
## 09 - Truck - closed 154 0.5956
## 10 - Truck - tank 28 0.1083
## 11 - Truck - dump 127 0.4911
## 12 - Truck - car carrier 3 0.0116
## 13 - Truck - tractor 82 0.3171
## 14 - Municipal transit bus 356 1.3767
## 15 - Intercity bus 15 0.0580
## 16 - Bus (other) 26 0.1005
## 17 - School bus 81 0.3132
## 19 - Other school vehicle/bus 3 0.0116
## 20 - Motor home 3 0.0116
## 21 - Off-road 2 wheels 1 0.0039
## 23 - Off-road 4 wheels 2 0.0077
## 25 - Motorized snow vehicle 3 0.0116
## 26 - Farm tractor 18 0.0696
## 27 - Other farm vehicle 3 0.0116
## 28 - Construction equipment 38 0.1470
## 31 - Snow plow 59 0.2282
## 32 - Ambulance 18 0.0696
## 33 - Fire vehicle 13 0.0503
## 34 - Police vehicle 70 0.2707
## 35 - Other emergency vehicle 6 0.0232
## 36 - Bicycle 297 1.1486
## 37 - Car and trailer 2 0.0077
## 38 - Truck and trailer 139 0.5376
## 98 - Truck-other 30 0.1160
## 99 - Other 3 0.0116
```



```
##
## -----
## CHECKING FEATURE:VEHICLE_TYPE
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 37
```

```
##
## TOP 100 FEATURES OF VEHICLE_TYPE
##
## Feature Value Counter Percentage
## -----
## 00 - Unknown 1485 5.5951
## 01 - Automobile, station wagon 18102 68.2039
## 02 - Motorcycle 140 0.5275
## 03 - Moped 2 0.0075
## 04 - Passenger van 1243 4.6833
## 05 - Pick-up truck 3574 13.4660
## 06 - Delivery van 368 1.3865
## 07 - Tow truck 57 0.2148
## 08 - Truck - open 70 0.2637
## 09 - Truck - closed 154 0.5802
## 10 - Truck - tank 30 0.1130
## 11 - Truck - dump 151 0.5689
## 12 - Truck - car carrier 9 0.0339
## 13 - Truck - tractor 78 0.2939
## 14 - Municipal transit bus 308 1.1605
## 15 - Intercity bus 4 0.0151
## 16 - Bus (other) 31 0.1168
## 17 - School bus 76 0.2863
## 18 - School van 2 0.0075
## 19 - Other school vehicle/bus 4 0.0151
## 20 - Motor home 4 0.0151
## 21 - Off-road 2 wheels 2 0.0075
## 23 - Off-road 4 wheels 1 0.0038
## 25 - Motorized snow vehicle 1 0.0038
## 26 - Farm tractor 13 0.0490
## 27 - Other farm vehicle 2 0.0075
## 28 - Construction equipment 43 0.1620
## 31 - Snow plow 45 0.1695
## 32 - Ambulance 19 0.0716
## 33 - Fire vehicle 12 0.0452
## 34 - Police vehicle 45 0.1695
## 35 - Other emergency vehicle 5 0.0188
## 36 - Bicycle 271 1.0211
## 37 - Car and trailer 2 0.0075
## 38 - Truck and trailer 158 0.5953
## 98 - Truck-other 28 0.1055
## 99 - Other 2 0.0075
```

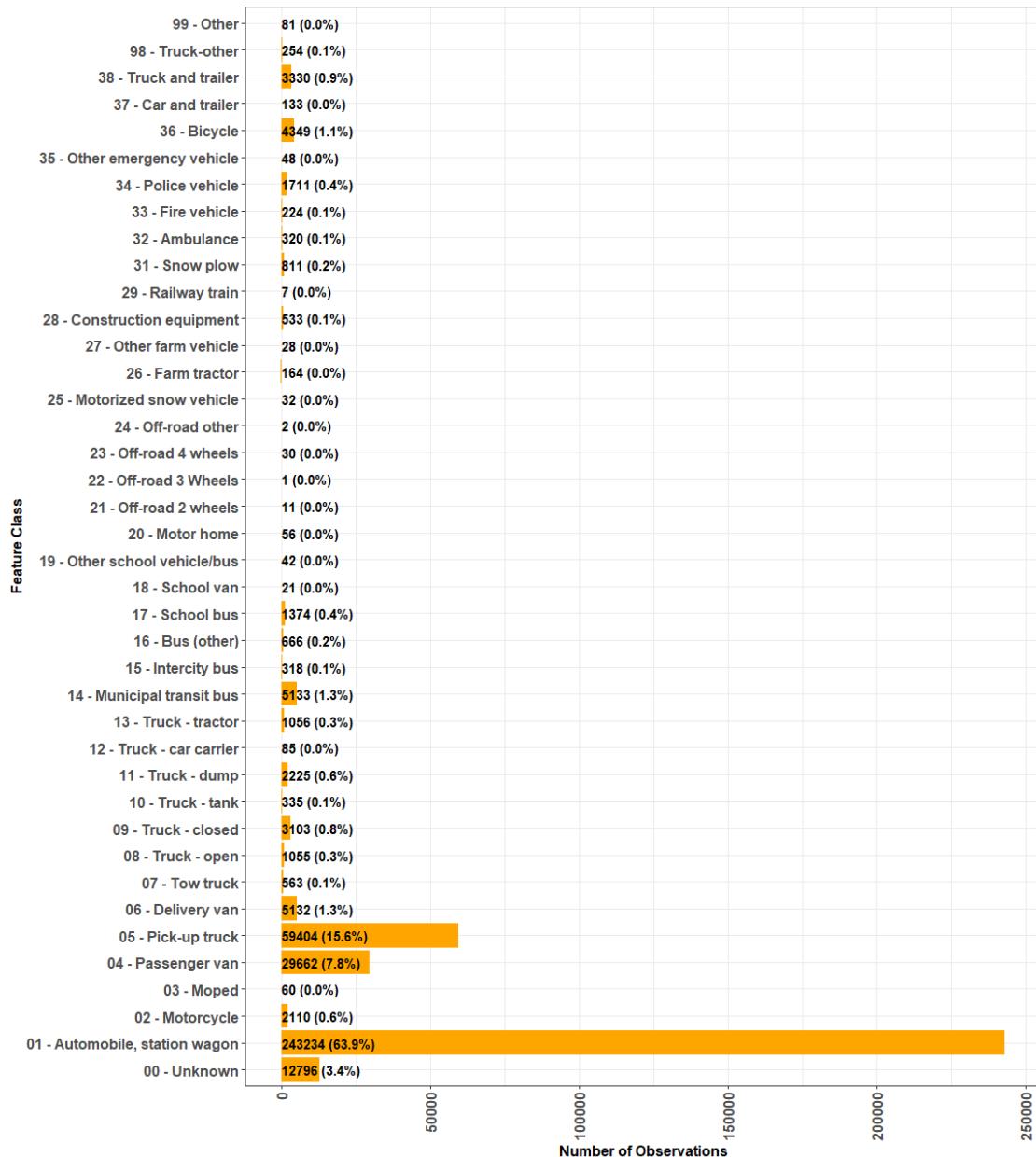
Plot of Feature:VEHICLE_TYPE
Data:All 2017-Only 2017-Homologated.csv



```
##
## =====
## FINAL INFO CHECKING FEATURE:VEHICLE_TYPE
## ALL DATA...
## =====
## Number of Blank Values:0
## 
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
```

```
##          25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##          26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858          26541
##
##
## Summary as Factor Feature:
## Number of Features: 40
```

Plot of Feature:VEHICLE_TYPE All Data



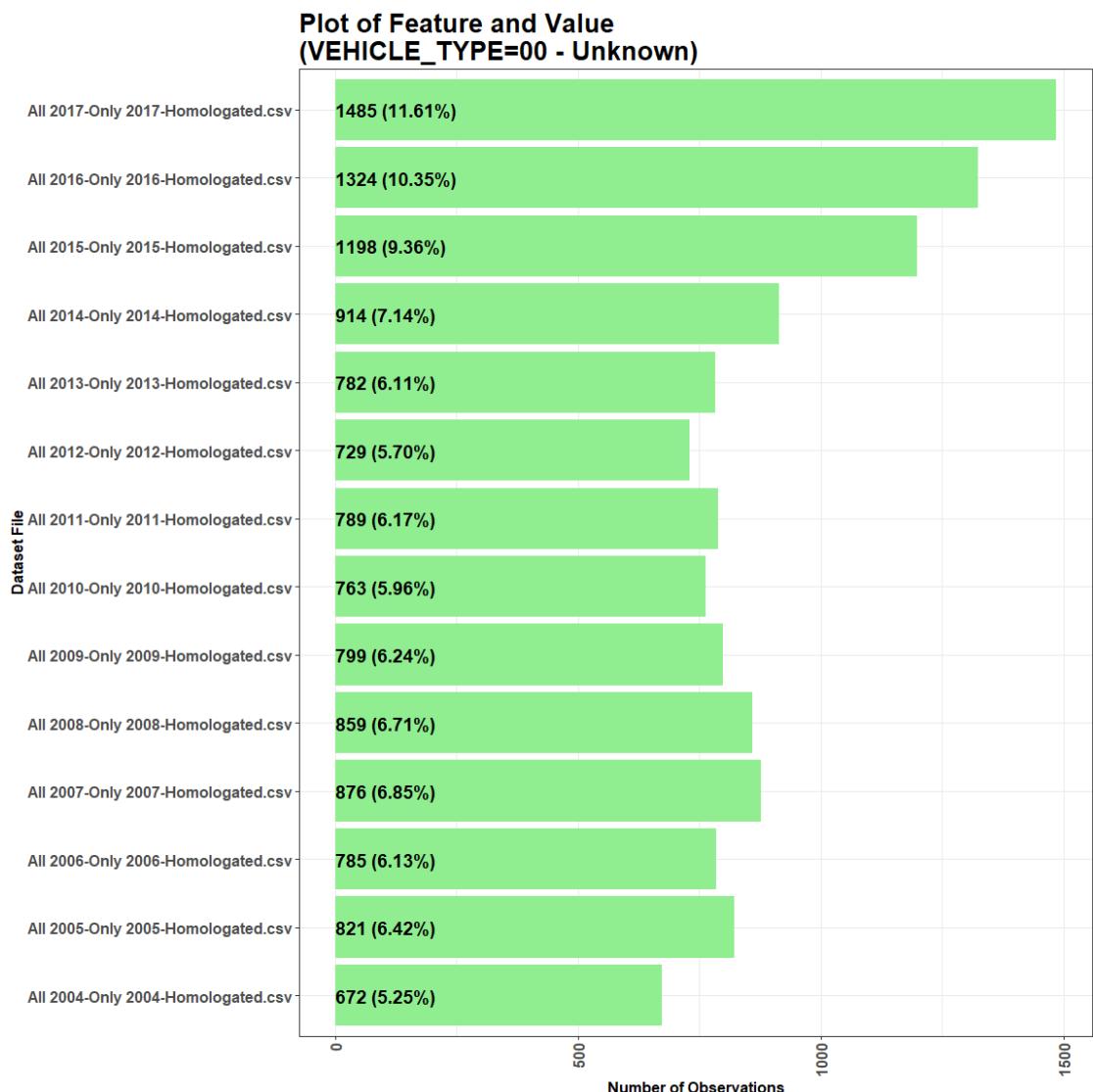
```
## [1] "TOP 100 FEATURES COUNTERS OF:VEHICLE_TYPE"
```

Feature Value	Counter	Percentage
00 - Unknown	12796	3.3630
01 - Automobile, station wagon	243234	63.9250
02 - Motorcycle	2110	0.5545
03 - Moped	60	0.0158
04 - Passenger van	29662	7.7956

05 - Pick-up truck	59404	15.6121
06 - Delivery van	5132	1.3488
07 - Tow truck	563	0.1480
08 - Truck - open	1055	0.2773
09 - Truck - closed	3103	0.8155
10 - Truck - tank	335	0.0880
11 - Truck - dump	2225	0.5848
12 - Truck - car carrier	85	0.0223
13 - Truck - tractor	1056	0.2775
14 - Municipal transit bus	5133	1.3490
15 - Intercity bus	318	0.0836
16 - Bus (other)	666	0.1750
17 - School bus	1374	0.3611
18 - School van	21	0.0055
19 - Other school vehicle/bus	42	0.0110
20 - Motor home	56	0.0147
21 - Off-road 2 wheels	11	0.0029
22 - Off-road 3 Wheels	1	0.0003
23 - Off-road 4 wheels	30	0.0079
24 - Off-road other	2	0.0005
25 - Motorized snow vehicle	32	0.0084
26 - Farm tractor	164	0.0431
27 - Other farm vehicle	28	0.0074
28 - Construction equipment	533	0.1401
29 - Railway train	7	0.0018
31 - Snow plow	811	0.2131
32 - Ambulance	320	0.0841
33 - Fire vehicle	224	0.0589
34 - Police vehicle	1711	0.4497
35 - Other emergency vehicle	48	0.0126
36 - Bicycle	4349	1.1430
37 - Car and trailer	133	0.0350
38 - Truck and trailer	3330	0.8752
98 - Truck-other	254	0.0668
99 - Other	81	0.0213

27.1 VEHICLE_TYPE = "00 - Unknown"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (VEHICLE_TYPE=00 - Unknown)  
##  
## Summary per Data File:  
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  
## 672 821  
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  
## 785 876  
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv  
## 859 799  
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv  
## 763 789  
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv  
## 729 782  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 914 1198  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 1324 1485
```



DATASET FILE	COUNTER OF (VEHICLE_TYPE=00 - Unknown)		Percentage
	Count	Percentage	
All 2004-Only 2004-Homologated.csv	672	5.252	
All 2005-Only 2005-Homologated.csv	821	6.416	
All 2006-Only 2006-Homologated.csv	785	6.135	
All 2007-Only 2007-Homologated.csv	876	6.846	
All 2008-Only 2008-Homologated.csv	859	6.713	

All 2009-Only 2009-Homologated.csv	799	6.244
All 2010-Only 2010-Homologated.csv	763	5.963
All 2011-Only 2011-Homologated.csv	789	6.166
All 2012-Only 2012-Homologated.csv	729	5.697
All 2013-Only 2013-Homologated.csv	782	6.111
All 2014-Only 2014-Homologated.csv	914	7.143
All 2015-Only 2015-Homologated.csv	1198	9.362
All 2016-Only 2016-Homologated.csv	1324	10.347
All 2017-Only 2017-Homologated.csv	1485	11.605

28. X Coord (XCOORD)

```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median   Mean 3rd Qu.    Max.  
## 317336 363386 367882 367080 371762 401233  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF XCOORD  
##  
## Feature Value     Counter Percentage  
## -----  
## 366264.5929        68      0.2649  
## 379860.7426        29      0.1130
```

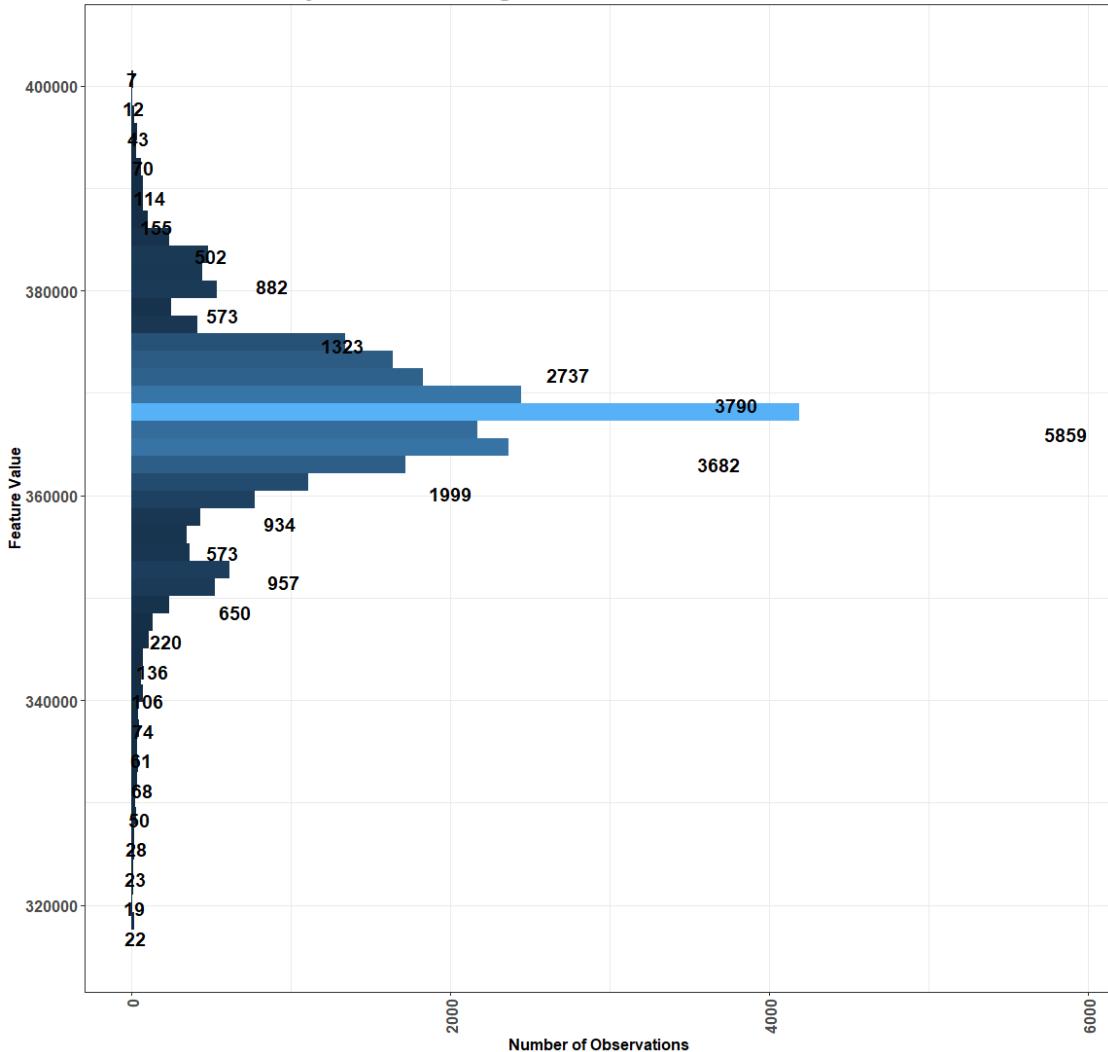
## 370432.7159	27	0.1052
## 362061.6866	25	0.0974
## 358329.3058	24	0.0935
## 365097.2825	19	0.0740
## 362702.6883	17	0.0662
## 368124.6138	15	0.0584
## 363086.59	14	0.0545
## 368038.5015	14	0.0545
## 368040.3001	14	0.0545
## 352842.5241	12	0.0467
## 359720.3956	12	0.0467
## 362547.8917	12	0.0467
## 363671.5855	12	0.0467
## 363724.581	12	0.0467
## 368035.8037	12	0.0467
## 372148.5152	12	0.0467
## 373762.8425	12	0.0467
## 353216.4206	11	0.0429
## 360556.4843	11	0.0429
## 364521.6983	11	0.0429
## 364858.6999	11	0.0429
## 370075.4076	11	0.0429
## 373113.412	11	0.0429
## 362551.4887	10	0.0390
## 364276.5915	10	0.0390
## 364522.5976	10	0.0390
## 366171.1899	10	0.0390
## 366934.5958	10	0.0390
## 367802.7064	10	0.0390
## 368165.9125	10	0.0390
## 370076.3069	10	0.0390
## 361478.7777	9	0.0351
## 363418.7906	9	0.0351
## 363545.79	9	0.0351
## 363936.3817	9	0.0351
## 364361.4011	9	0.0351
## 365055.5957	9	0.0351
## 367463.2066	9	0.0351
## 367920.7974	9	0.0351
## 368248.7013	9	0.0351
## 370217.8058	9	0.0351
## 372091.9144	9	0.0351
## 372096.4108	9	0.0351
## 372307.518	9	0.0351
## 372452.8198	9	0.0351
## 372858.0263	9	0.0351
## 373099.7274	9	0.0351
## 375257.7351	9	0.0351

## 318895.5442	8	0.0312
## 352841.6249	8	0.0312
## 359719.4963	8	0.0312
## 362553.2873	8	0.0312
## 363082.4743	8	0.0312
## 363087.4892	8	0.0312
## 363672.4848	8	0.0312
## 363673.3841	8	0.0312
## 364357.804	8	0.0312
## 365052.8979	8	0.0312
## 365056.495	8	0.0312
## 366870.1094	8	0.0312
## 366932.7972	8	0.0312
## 367449.5056	8	0.0312
## 368039.4008	8	0.0312
## 368122.8152	8	0.0312
## 368125.513	8	0.0312
## 368245.5096	8	0.0312
## 368247.3081	8	0.0312
## 368277.6036	8	0.0312
## 369993.9214	8	0.0312
## 371033.7297	8	0.0312
## 372861.6234	8	0.0312
## 373238.5305	8	0.0312
## 373764.6411	8	0.0312
## 374506.8244	8	0.0312
## 374510.4216	8	0.0312
## 374677.4418	8	0.0312
## 374912.3376	8	0.0312
## 380637.1334	8	0.0312
## 353674.5238	7	0.0273
## 360599.4828	7	0.0273
## 361026.1689	7	0.0273
## 362549.6902	7	0.0273
## 363667.9884	7	0.0273
## 364360.5018	7	0.0273
## 364861.3977	7	0.0273
## 365365.4935	7	0.0273
## 365615.393	7	0.0273
## 366874.6058	7	0.0273
## 366892.6118	7	0.0273
## 367254.507	7	0.0273
## 367459.6095	7	0.0273
## 367605.4072	7	0.0273
## 367808.2996	7	0.0273
## 368111.3099	7	0.0273
## 368247.802	7	0.0273
## 368315.034	7	0.0273

```
## 368448.7065          7      0.0273
## (Other)           24635    95.9718

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

Plot of Feature:XCOORD
Data:All 2004-Only 2004-Homologated.csv



```
## 
## -----
## CHECKING FEATURE:XCOORD
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
```

```
## 317669 363281 367835 367107 371700 402732
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 362702.6883      29    0.1090
## 370432.7159      29    0.1090
## 379860.7426      27    0.1015
## 365097.2825      21    0.0789
## 362061.6866      20    0.0752
## 358329.3058      17    0.0639
## 370339.6506      16    0.0601
## 361479.677       15    0.0564
## 362943.5971      14    0.0526
## 366264.5929      14    0.0526
## 367906.8082      14    0.0526
## 360599.4828      13    0.0489
## 368371.7085      13    0.0489
## 360247.4775      12    0.0451
## 362548.7909      12    0.0451
## 364276.5915      12    0.0451
## 368036.703       12    0.0451
## 375259.5337      12    0.0451
## 357067.5524      11    0.0413
## 363059.3874      11    0.0413
## 365055.5957      11    0.0413
## 365616.2923      11    0.0413
## 369133.5071      11    0.0413
## 374151.323       11    0.0413
## 353672.7253      10    0.0376
## 363673.3841      10    0.0376
## 364362.3004      10    0.0376
## 366578.3103      10    0.0376
## 366578.4996      10    0.0376
## 367604.508       10    0.0376
## 367909.5061      10    0.0376
## 367911.3046      10    0.0376
## 368038.5015      10    0.0376
## 368039.4008      10    0.0376
## 368107.7128      10    0.0376
## 368513.5057      10    0.0376
## 370814.7203      10    0.0376
## 370815.6196      10    0.0376
```

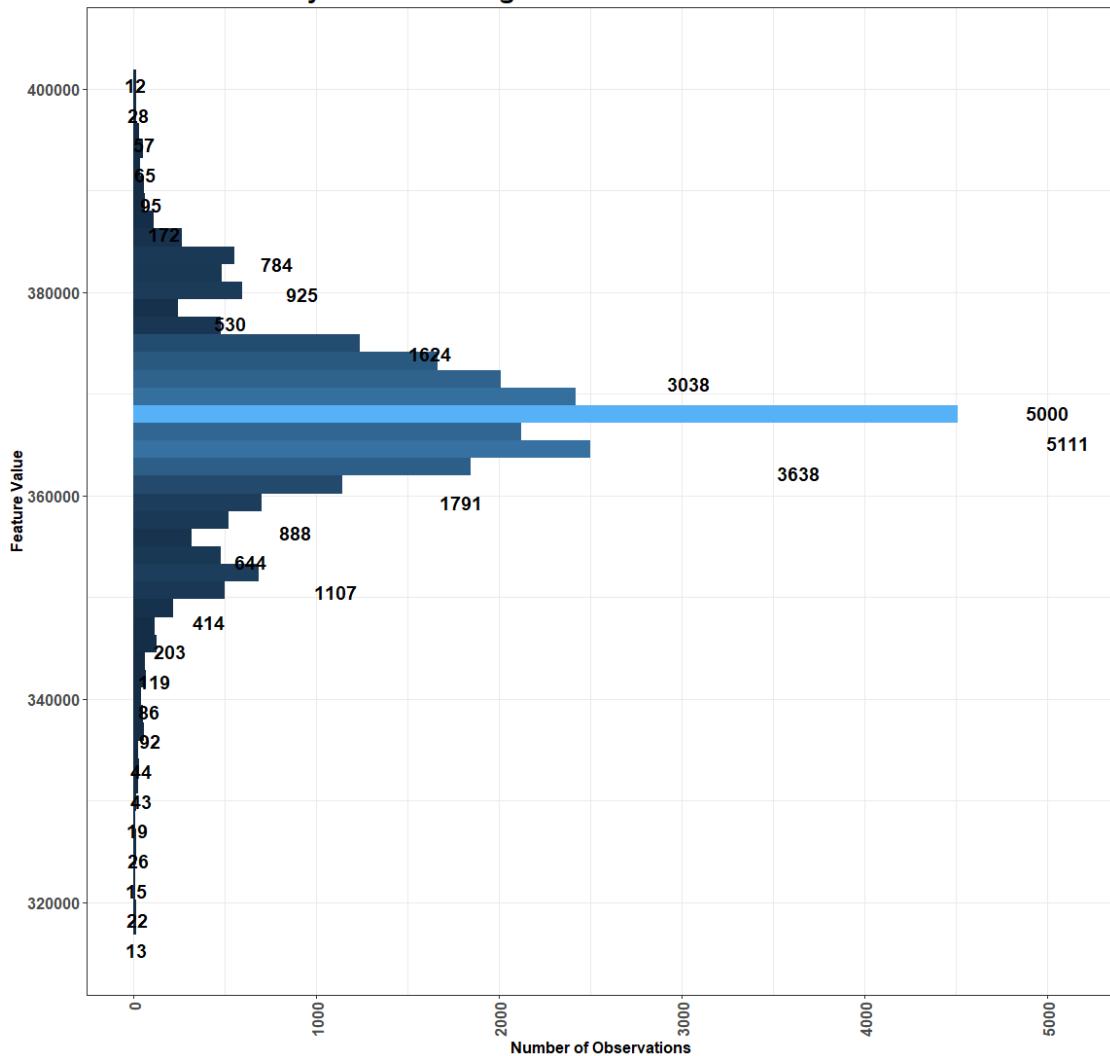
## 371610.5351	10	0.0376
## 371611.4344	10	0.0376
## 372092.8136	10	0.0376
## 372304.8202	10	0.0376
## 372861.6234	10	0.0376
## 373115.2106	10	0.0376
## 352840.7256	9	0.0338
## 353214.6221	9	0.0338
## 353673.6246	9	0.0338
## 359722.1941	9	0.0338
## 363087.4892	9	0.0338
## 363667.0892	9	0.0338
## 364361.4011	9	0.0338
## 364523.4969	9	0.0338
## 364856.9013	9	0.0338
## 365004.9591	9	0.0338
## 366968.5954	9	0.0338
## 367135.5003	9	0.0338
## 368249.6005	9	0.0338
## 368373.507	9	0.0338
## 368738.3058	9	0.0338
## 370224.1007	9	0.0338
## 370853.5291	9	0.0338
## 372097.31	9	0.0338
## 374674.7439	9	0.0338
## 352673.0202	8	0.0301
## 353420.3193	8	0.0301
## 353676.3224	8	0.0301
## 356351.0466	8	0.0301
## 357070.2502	8	0.0301
## 360249.276	8	0.0301
## 360595.8857	8	0.0301
## 362282.6921	8	0.0301
## 362549.6902	8	0.0301
## 362551.4887	8	0.0301
## 362940.8993	8	0.0301
## 363671.5855	8	0.0301
## 363773.897	8	0.0301
## 363937.281	8	0.0301
## 365195.4957	8	0.0301
## 365364.5942	8	0.0301
## 366800.7006	8	0.0301
## 366936.3943	8	0.0301
## 367368.8116	8	0.0301
## 367449.5056	8	0.0301
## 367910.4053	8	0.0301
## 368040.3001	8	0.0301
## 368742.405	8	0.0301



```
## 369132.6078      8    0.0301
## 369226.7178      8    0.0301
## 369999.3171      8    0.0301
## 370314.4109      8    0.0301
## 370338.7513      8    0.0301
## 371673.725       8    0.0301
## 371914.5104      8    0.0301
## 372147.6159      8    0.0301
## 372858.9255      8    0.0301
## 372865.2205      8    0.0301
## 373367.4273      8    0.0301
## 373767.339       8    0.0301
## 373901.6374      8    0.0301
## (Other)           25578 96.1398

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

**Plot of Feature:XCOORD
Data:All 2005-Only 2005-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2006-Only 2006-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median   Mean 3rd Qu.    Max.  
## 317410 363472 367871 367227 371731 401799  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 379860.7426      43    0.1649
## 366264.5929      40    0.1534
## 362702.6883      30    0.1151
## 370432.7159      30    0.1151
## 371608.7365      21    0.0805
## 362061.6866      19    0.0729
## 368125.513       16    0.0614
## 363671.5855      13    0.0499
## 364858.6999      13    0.0499
## 367802.7064      13    0.0499
## 373898.9396      13    0.0499
## 360555.585       12    0.0460
## 360600.3821      12    0.0460
## 361480.5763      12    0.0460
## 363672.4848      12    0.0460
## 371609.6358      12    0.0460
## 375581.4328      12    0.0460
## 375582.3321      12    0.0460
## 380460.7995      12    0.0460
## 363083.8922      11    0.0422
## 363933.6839      11    0.0422
## 364856.9013      11    0.0422
## 365237.4961      11    0.0422
## 367107.7113      11    0.0422
## 367924.5098      11    0.0422
## 368108.612       11    0.0422
## 368121.9159      11    0.0422
## 370074.5083      11    0.0422
## 358329.3058      10    0.0384
## 360243.8804      10    0.0384
## 360247.4775      10    0.0384
## 360498.4739      10    0.0384
## 364278.39        10    0.0384
## 364857.2985      10    0.0384
## 367370.6102      10    0.0384
## 367908.6068      10    0.0384
## 368039.4008      10    0.0384
## 368244.6103      10    0.0384
## 368246.0034      10    0.0384
## 368372.6077      10    0.0384
## 369994.8207      10    0.0384
## 371546.6021      10    0.0384
```

## 371673.725	10	0.0384
## 372091.9144	10	0.0384
## 373098.8281	10	0.0384
## 374674.7439	10	0.0384
## 349864.6086	9	0.0345
## 361937.3768	9	0.0345
## 362548.7909	9	0.0345
## 362550.5895	9	0.0345
## 364524.3961	9	0.0345
## 365082.9958	9	0.0345
## 365612.6952	9	0.0345
## 367368.8116	9	0.0345
## 368248.7013	9	0.0345
## 368249.6005	9	0.0345
## 368396.4045	9	0.0345
## 368511.7072	9	0.0345
## 369225.8186	9	0.0345
## 370342.3484	9	0.0345
## 372308.4173	9	0.0345
## 372539.9218	9	0.0345
## 351808.6054	8	0.0307
## 360599.4828	8	0.0307
## 361481.4755	8	0.0307
## 362551.4887	8	0.0307
## 362554.1865	8	0.0307
## 363055.7904	8	0.0307
## 363518.892	8	0.0307
## 364520.799	8	0.0307
## 364896.5023	8	0.0307
## 365149.7006	8	0.0307
## 365418.4972	8	0.0307
## 365460.0017	8	0.0307
## 365613.5945	8	0.0307
## 365615.393	8	0.0307
## 366167.5928	8	0.0307
## 366770.5039	8	0.0307
## 367445.9084	8	0.0307
## 367460.5088	8	0.0307
## 367922.7112	8	0.0307
## 368034.9044	8	0.0307
## 368037.9068	8	0.0307
## 368106.8135	8	0.0307
## 368124.6138	8	0.0307
## 368167.711	8	0.0307
## 368205.8098	8	0.0307
## 368250.4998	8	0.0307
## 368370.8092	8	0.0307
## 370218.705	8	0.0307

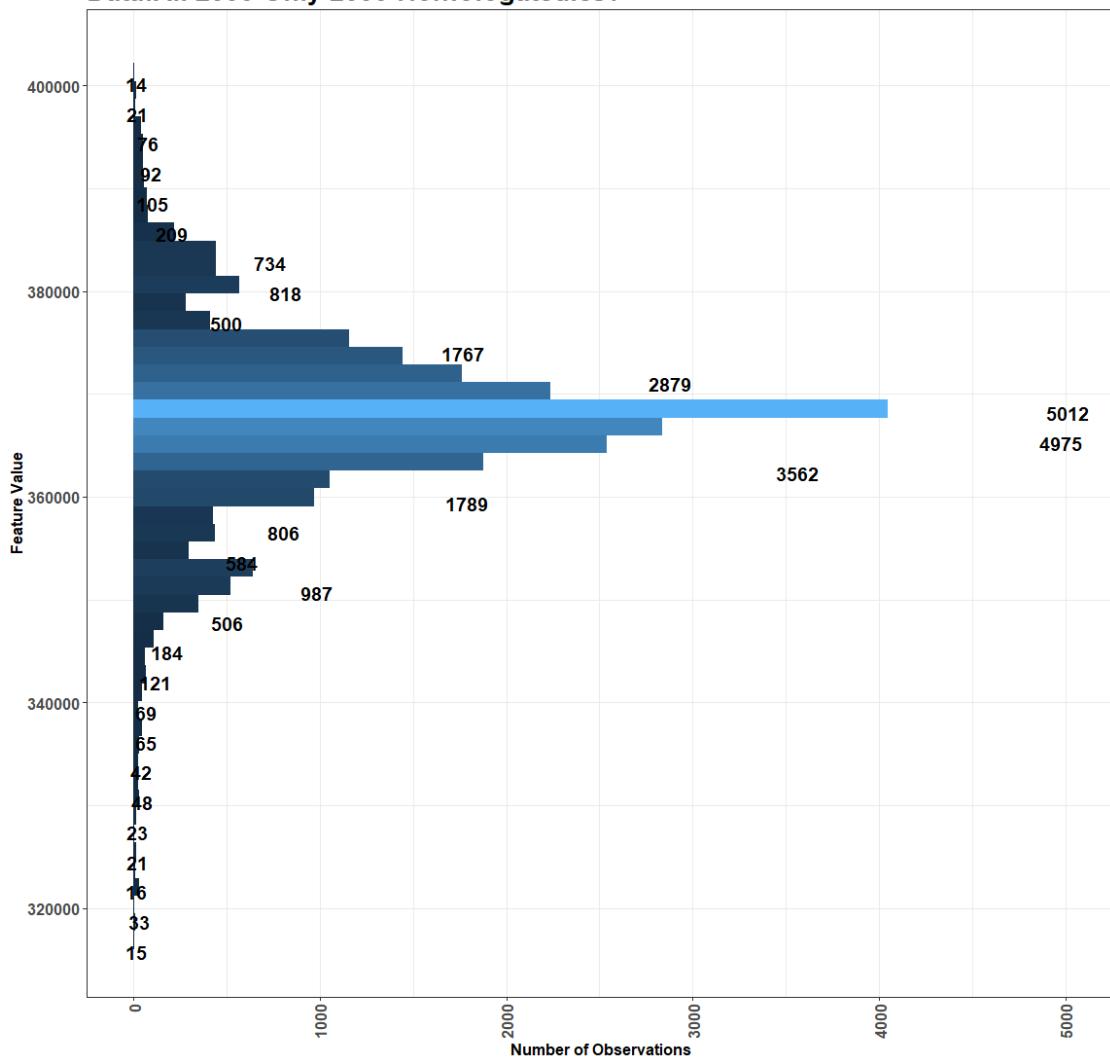
```

## 371290.8296      8    0.0307
## 372304.8202      8    0.0307
## 373363.8301      8    0.0307
## 383951.7603      8    0.0307
## 348596.3471      7    0.0268
## 353215.5214      7    0.0268
## 359372.6852      7    0.0268
## 360598.5835      7    0.0268
## 360658.6806      7    0.0268
## (Other)           25012 95.9307

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

```

Plot of Feature:XCOORD
Data:All 2006-Only 2006-Homologated.csv



```

## 
## -----
## CHECKING FEATURE:XCOORD

```

```

## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
## 317792 363374 367840 367150 371701 401173
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 363673.3841      15    0.0540
## 363672.4848      14    0.0504
## 365087.4922      14    0.0504
## 367220.7955      14    0.0504
## 367457.811       14    0.0504
## 368035.8037      14    0.0504
## 372541.7204      14    0.0504
## 368124.6138      13    0.0468
## 372864.3212      13    0.0468
## 354382.6336      12    0.0432
## 359719.4963      12    0.0432
## 368033.1059      12    0.0432
## 371609.6358      12    0.0432
## 372303.9209      12    0.0432
## 363670.6862      11    0.0396
## 367395.6108      11    0.0396
## 368123.7145      11    0.0396
## 368510.8079      11    0.0396
## 370311.7131      11    0.0396
## 350908.516       10    0.0360
## 360599.4828      10    0.0360
## 363083.3735      10    0.0360
## 363084.2728      10    0.0360
## 364521.6983      10    0.0360
## 367458.7103      10    0.0360
## 368336.4228      10    0.0360
## 369131.7086      10    0.0360
## 379863.4404      10    0.0360
## 383953.5589      10    0.0360
## 350942.5979       9    0.0324

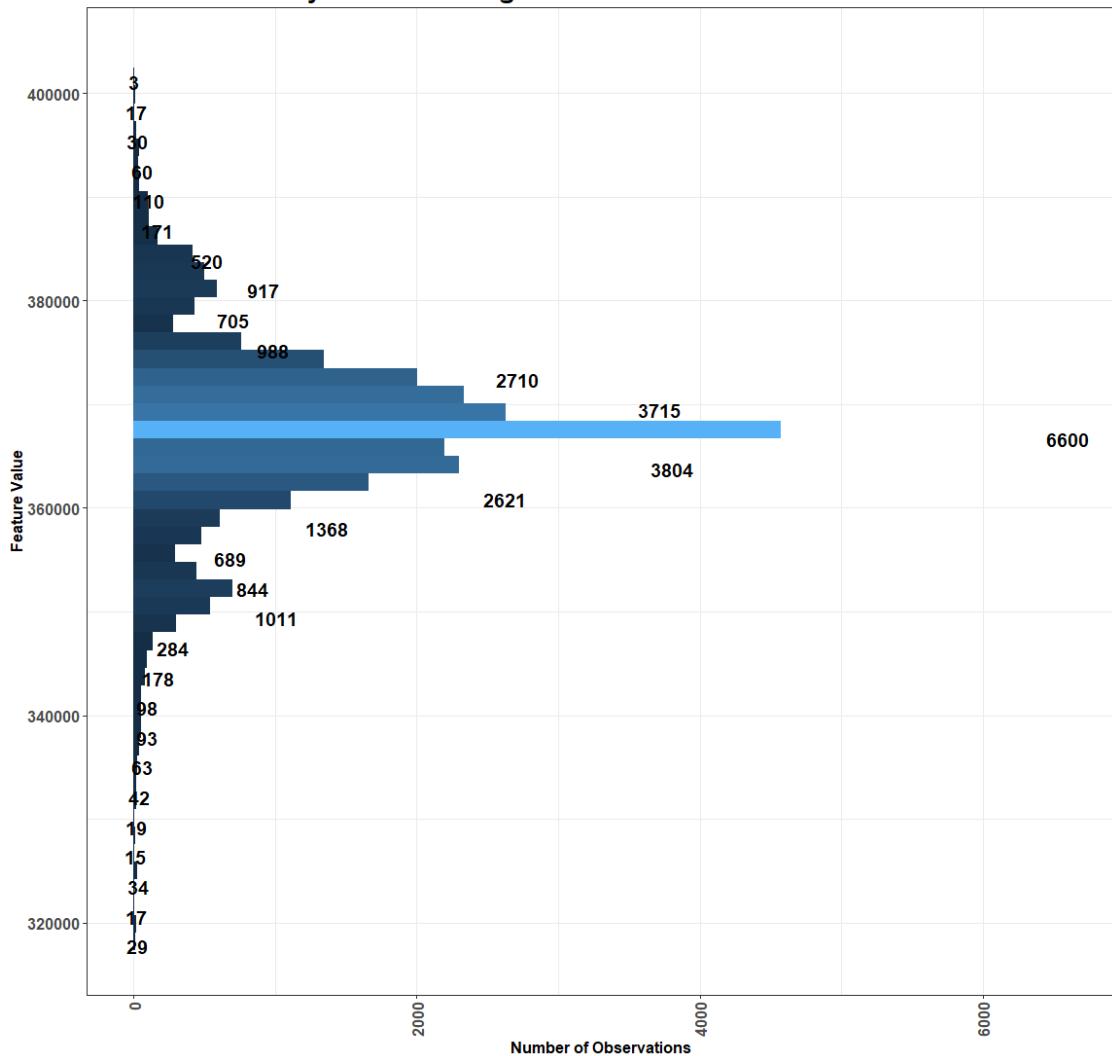
```

## 354385.3314	9	0.0324
## 362548.7909	9	0.0324
## 362941.7986	9	0.0324
## 364857.8006	9	0.0324
## 364858.6999	9	0.0324
## 366830.6092	9	0.0324
## 367251.8092	9	0.0324
## 368036.703	9	0.0324
## 368247.802	9	0.0324
## 368248.7013	9	0.0324
## 370434.5145	9	0.0324
## 372308.4173	9	0.0324
## 373902.5367	9	0.0324
## 375581.4328	9	0.0324
## 359718.5971	8	0.0288
## 362544.2946	8	0.0288
## 363418.7906	8	0.0288
## 363419.6899	8	0.0288
## 363669.787	8	0.0288
## 364279.2893	8	0.0288
## 364359.6025	8	0.0288
## 365051.9986	8	0.0288
## 366022.3981	8	0.0288
## 366574.7132	8	0.0288
## 366770.5039	8	0.0288
## 366935.4951	8	0.0288
## 367134.601	8	0.0288
## 367455.1132	8	0.0288
## 367456.0124	8	0.0288
## 367456.9117	8	0.0288
## 367459.6095	8	0.0288
## 367909.5061	8	0.0288
## 368037.6022	8	0.0288
## 368125.513	8	0.0288
## 368372.6077	8	0.0288
## 369226.7178	8	0.0288
## 370430.9174	8	0.0288
## 370670.6142	8	0.0288
## 370687.4164	8	0.0288
## 370883.8245	8	0.0288
## 371605.1394	8	0.0288
## 371872.2301	8	0.0288
## 372310.2159	8	0.0288
## 373367.4273	8	0.0288
## 374508.623	8	0.0288
## 374679.2404	8	0.0288
## 375578.7349	8	0.0288
## 379859.8433	8	0.0288

```
## 383542.5617      8    0.0288
## 352674.8188      7    0.0252
## 353417.6215      7    0.0252
## 358138.5636      7    0.0252
## 360070.872       7    0.0252
## 360245.679       7    0.0252
## 360598.5835      7    0.0252
## 361023.4711      7    0.0252
## 361481.4755      7    0.0252
## 362546.9924      7    0.0252
## 364272.9944      7    0.0252
## 364523.4969      7    0.0252
## 365054.3919      7    0.0252
## 365192.7978      7    0.0252
## 365237.4961      7    0.0252
## 366430.4917      7    0.0252
## 367226.1912      7    0.0252
## 367921.8119      7    0.0252
## 368039.4008      7    0.0252
## 369993.9214      7    0.0252
## 370218.705       7    0.0252
## (Other)          26860  96.7754

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

**Plot of Feature:XCOORD
Data:All 2007-Only 2007-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2008-Only 2008-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 317421 363273 367874 367127 371726 401795  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 372095.5115      19    0.0667
## 362548.7909      16    0.0561
## 368123.7145      16    0.0561
## 363672.4848      15    0.0526
## 370218.705       15    0.0526
## 372305.7195      14    0.0491
## 368036.703       13    0.0456
## 374673.8446      13    0.0456
## 363422.3877      12    0.0421
## 370336.9527      12    0.0421
## 370685.6179      12    0.0421
## 372304.8202      12    0.0421
## 360071.7712      11    0.0386
## 363670.6862      11    0.0386
## 372859.8248      11    0.0386
## 373097.9288      11    0.0386
## 374675.6432      11    0.0386
## 360006.6757      10    0.0351
## 366167.5928      10    0.0351
## 366873.7065      10    0.0351
## 366933.6965      10    0.0351
## 367456.9117      10    0.0351
## 367920.0134      10    0.0351
## 368038.5015      10    0.0351
## 368126.4123      10    0.0351
## 374507.7237      10    0.0351
## 374674.7439      10    0.0351
## 375050.4225      10    0.0351
## 382635.0557      10    0.0351
## 383188.6508      10    0.0351
## 383953.5589      10    0.0351
## 352845.2219       9    0.0316
## 362947.1942       9    0.0316
## 363668.8877       9    0.0316
## 367105.0135       9    0.0316
## 368111.3099       9    0.0316
## 369997.5185       9    0.0316
## 372864.3212       9    0.0316
## 350944.3964       8    0.0281
## 362546.0931       8    0.0281
## 362546.9924       8    0.0281
## 362552.388        8    0.0281
```

## 363056.6896	8	0.0281
## 363671.5855	8	0.0281
## 363725.4802	8	0.0281
## 364894.7038	8	0.0281
## 365084.7943	8	0.0281
## 366768.7054	8	0.0281
## 367106.812	8	0.0281
## 367136.3996	8	0.0281
## 367138.1981	8	0.0281
## 367225.2919	8	0.0281
## 367460.5088	8	0.0281
## 367612.8134	8	0.0281
## 367925.409	8	0.0281
## 367946.0121	8	0.0281
## 368039.4008	8	0.0281
## 368122.8152	8	0.0281
## 368249.6005	8	0.0281
## 368509.0093	8	0.0281
## 368515.3043	8	0.0281
## 369995.72	8	0.0281
## 370157.6264	8	0.0281
## 370669.7149	8	0.0281
## 370882.026	8	0.0281
## 372092.8136	8	0.0281
## 372309.3166	8	0.0281
## 372858.9255	8	0.0281
## 373108.0163	8	0.0281
## 373364.7294	8	0.0281
## 373761.9433	8	0.0281
## 373900.7382	8	0.0281
## 374672.9453	8	0.0281
## 374676.5425	8	0.0281
## 375576.9364	8	0.0281
## 375653.8357	8	0.0281
## 376126.6298	8	0.0281
## 383185.0536	8	0.0281
## 383190.4494	8	0.0281
## 383948.1631	8	0.0281
## 349661.0804	7	0.0246
## 349862.8101	7	0.0246
## 353674.5238	7	0.0246
## 354382.6336	7	0.0246
## 359005.1658	7	0.0246
## 359719.4963	7	0.0246
## 360352.9745	7	0.0246
## 360598.5835	7	0.0246
## 360752.2248	7	0.0246
## 361477.8785	7	0.0246

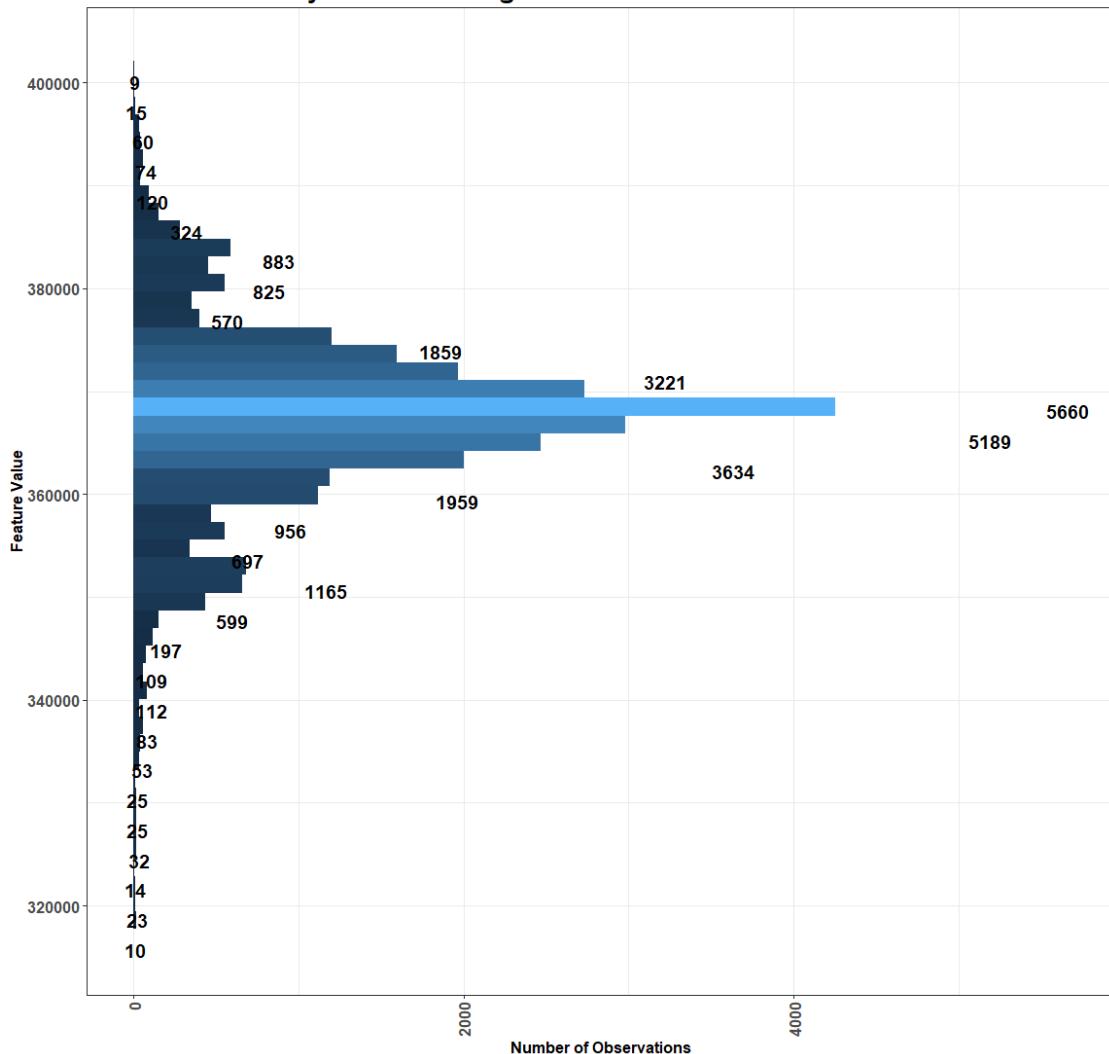
```

## 363420.5892      7    0.0246
## 363674.2833      7    0.0246
## 364351.7005      7    0.0246
## 364892.006       7    0.0246
## 365052.8979      7    0.0246
## 365054.6964      7    0.0246
## 366166.6936      7    0.0246
## 367218.997       7    0.0246
## 367458.7103      7    0.0246
## (Other)          27606 96.8564

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

```

Plot of Feature:XCOORD
Data:All 2008-Only 2008-Homologated.csv

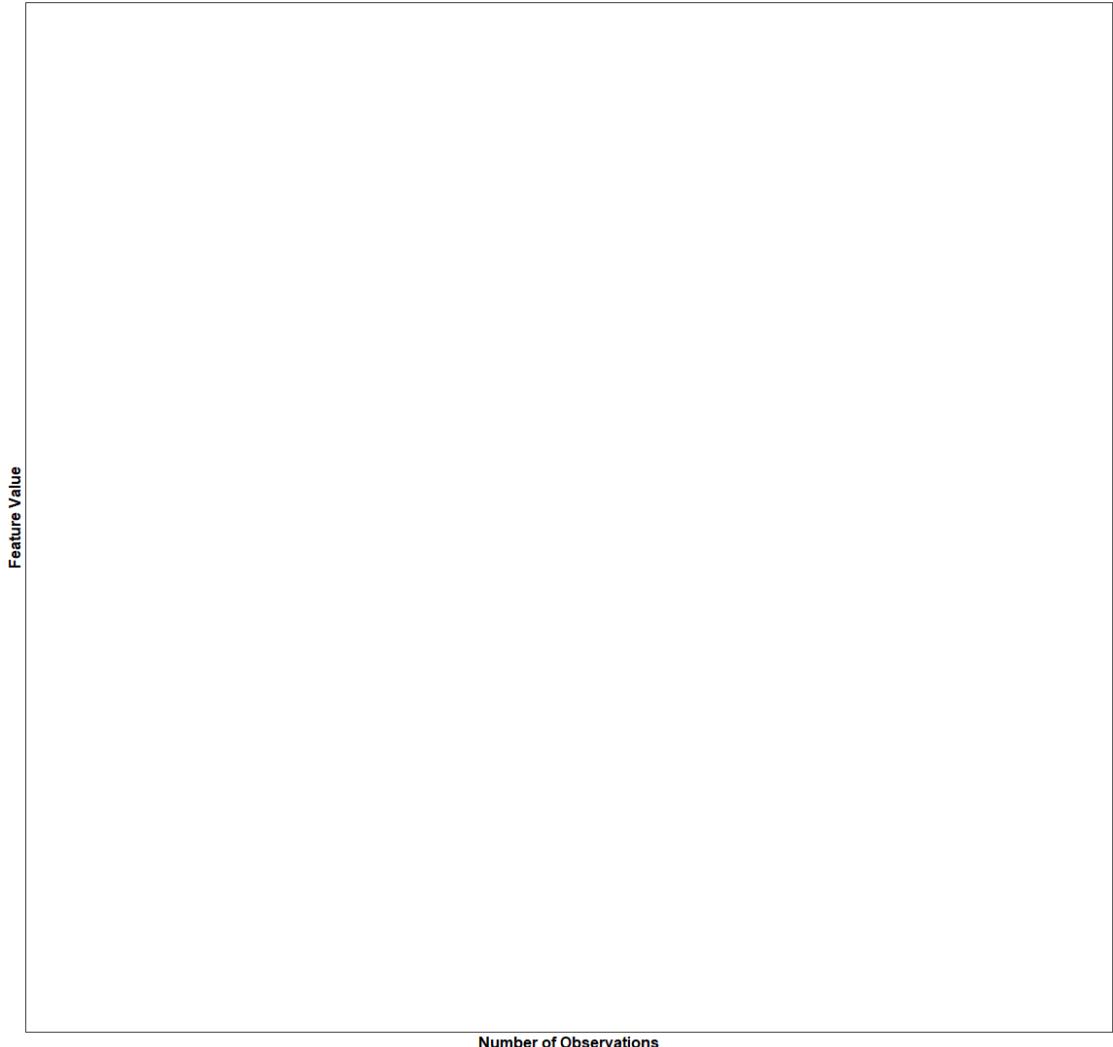


```

##
## -----
## CHECKING FEATURE:XCOORD

```

```
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##   Min. 1st Qu. Median    Mean 3rd Qu.    Max.    NA's
##   NA      NA     NA     NaN      NA      NA    28453
##
## Summary as Factor Feature:
##
## Number of Features: 1
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value   Counter Percentage
## -----  -----
##                   28453        100
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

**Plot of Feature:XCOORD
Data:All 2009-Only 2009-Homologated.csv**

```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median     Mean 3rd Qu.    Max.  
## 317290 363498 367899 367370 372044 401917  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 368037.6022      22    0.0800
## 372305.7195      19    0.0691
## 383951.7603      19    0.0691
## 371608.7365      18    0.0655
## 369995.72         17    0.0619
## 371609.6358      17    0.0619
## 368370.8092      16    0.0582
## 374672.9453      15    0.0546
## 354382.6336      14    0.0509
## 362550.5895      14    0.0509
## 363934.5832      14    0.0509
## 364858.6999      14    0.0509
## 364859.5992      14    0.0509
## 368038.5015      14    0.0509
## 372306.6188      14    0.0509
## 357909.4502      13    0.0473
## 370851.7305      13    0.0473
## 372092.8136      13    0.0473
## 372861.6234      13    0.0473
## 360598.5835      12    0.0437
## 362548.7909      12    0.0437
## 362943.5971      12    0.0437
## 364273.8936      12    0.0437
## 367253.6078      12    0.0437
## 367457.811        12    0.0437
## 368037.9068      12    0.0437
## 369131.7086      12    0.0437
## 369499.7073      12    0.0437
## 370339.6506      12    0.0437
## 371292.6281      12    0.0437
## 372091.9144      12    0.0437
## 373099.7274      12    0.0437
## 374147.7258      12    0.0437
## 382890.8038      12    0.0437
## 383950.861        12    0.0437
## 363078.8772      11    0.0400
## 363079.7765      11    0.0400
## 363669.787        11    0.0400
## 363935.4824      11    0.0400
## 367400.6093      11    0.0400
## 368513.5057      11    0.0400
## 368667.5101      11    0.0400
```

## 368970.7096	11	0.0400
## 371546.6021	11	0.0400
## 372859.8248	11	0.0400
## 373365.6287	11	0.0400
## 354380.8351	10	0.0364
## 354383.5328	10	0.0364
## 361021.6726	10	0.0364
## 362282.6921	10	0.0364
## 363087.4892	10	0.0364
## 363420.5892	10	0.0364
## 364548.8105	10	0.0364
## 367368.8116	10	0.0364
## 367908.6068	10	0.0364
## 368039.4008	10	0.0364
## 368126.4123	10	0.0364
## 368768.6095	10	0.0364
## 369994.8207	10	0.0364
## 370670.6142	10	0.0364
## 370884.7238	10	0.0364
## 372095.5115	10	0.0364
## 372147.6159	10	0.0364
## 372541.7204	10	0.0364
## 373237.6313	10	0.0364
## 375136.7405	10	0.0364
## 375258.6344	10	0.0364
## 375576.9364	10	0.0364
## 375577.8357	10	0.0364
## 379860.7426	10	0.0364
## 379861.6418	10	0.0364
## 382639.5522	10	0.0364
## 383952.6596	10	0.0364
## 383953.5589	10	0.0364
## 351269.718	9	0.0327
## 359057.7724	9	0.0327
## 360597.6843	9	0.0327
## 361935.5783	9	0.0327
## 363080.6757	9	0.0327
## 363084.7914	9	0.0327
## 363676.0819	9	0.0327
## 364860.4984	9	0.0327
## 366573.8139	9	0.0327
## 367096.7986	9	0.0327
## 367387.61	9	0.0327
## 368106.8135	9	0.0327
## 368246.9027	9	0.0327
## 368511.7072	9	0.0327
## 370157.6264	9	0.0327
## 370367.5216	9	0.0327

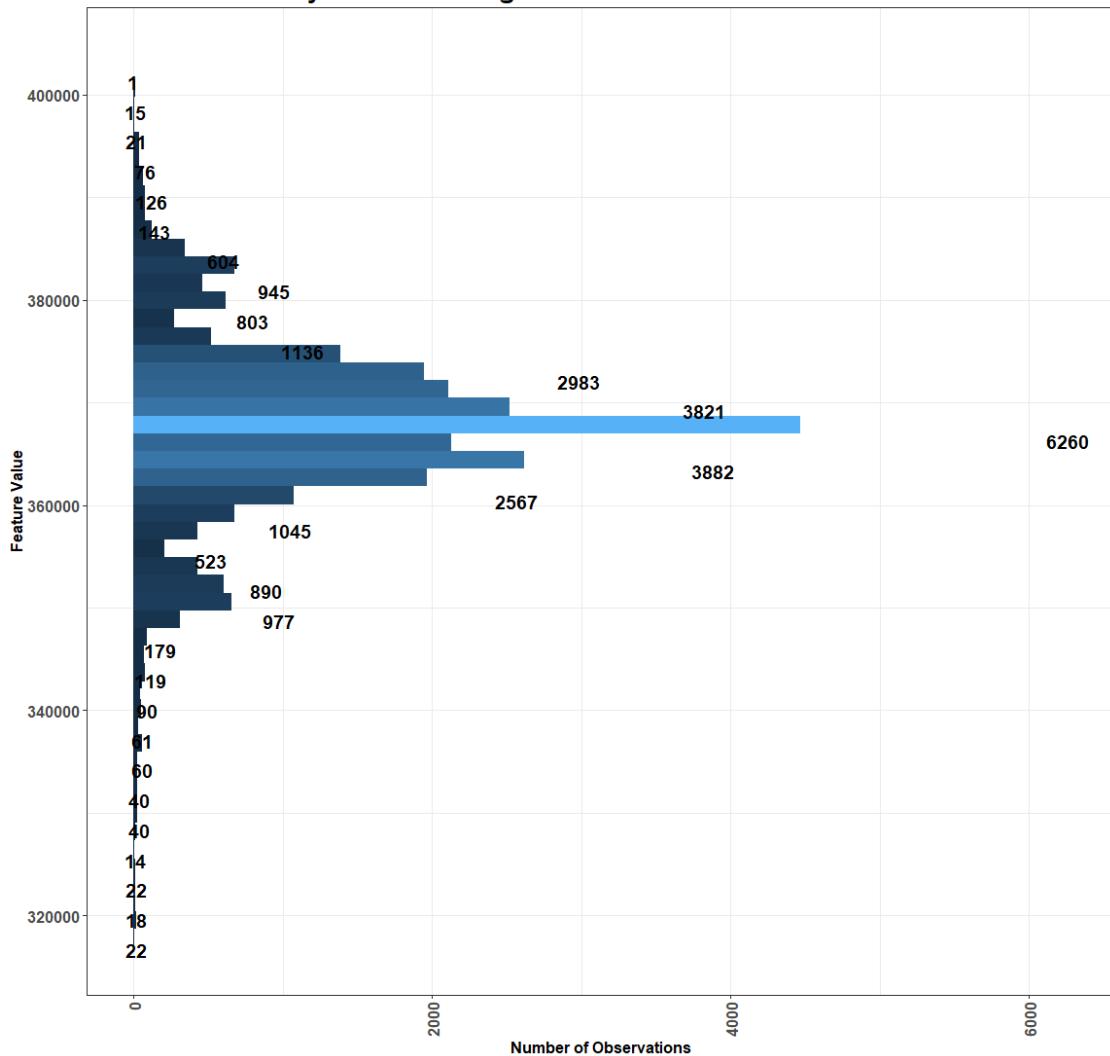
```

## 370491.8232      9    0.0327
## 371922.6183      9    0.0327
## 372094.6122      9    0.0327
## 372906.4205      9    0.0327
## 373097.9288      9    0.0327
## 373235.8327      9    0.0327
## 373898.9396      9    0.0327
## 380461.6988      9    0.0327
## 380939.8452      9    0.0327
## (Other)          26372 95.9575

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

```

Plot of Feature:XCOORD
Data:All 2010-Only 2010-Homologated.csv



```

##
## -----
## CHECKING FEATURE:XCOORD

```

```

## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median     Mean 3rd Qu.      Max.
## 317505   363456  367827  367247  371896  401582
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value      Counter      Percentage
## -----
## 368036.703          26      0.0932
## 367907.7075         24      0.0860
## 379858.944          20      0.0717
## 368037.6022         19      0.0681
## 379861.6418         19      0.0681
## 373099.7274         18      0.0645
## 379859.8433         18      0.0645
## 374674.7439         17      0.0609
## 363079.7765         15      0.0538
## 367458.7103         15      0.0538
## 367459.6095         15      0.0538
## 368168.6103         15      0.0538
## 372093.7129         15      0.0538
## 360525.7752         14      0.0502
## 362549.6902         14      0.0502
## 363419.6899         14      0.0502
## 366264.5929         14      0.0502
## 368035.8037         14      0.0502
## 369132.6078         14      0.0502
## 369995.72            14      0.0502
## 379862.5411         14      0.0502
## 382638.6529         14      0.0502
## 350906.7175         13      0.0466
## 364276.5915         13      0.0466
## 364357.804           13      0.0466
## 365085.6936           13      0.0466
## 365235.6976           13      0.0466
## 366982.7985           13      0.0466
## 369130.8093           13      0.0466
## 371920.8197           13      0.0466

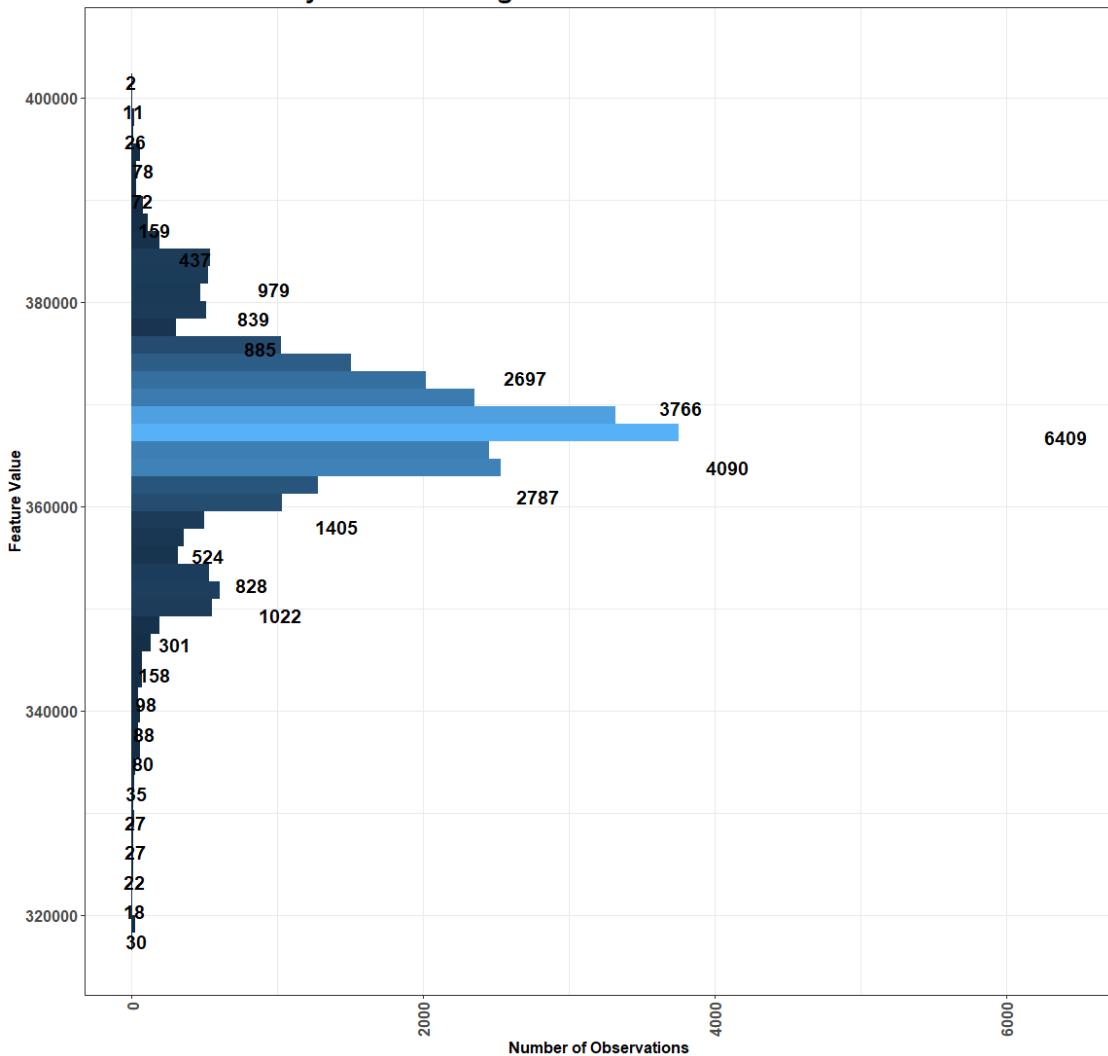
```

## 372859.8248	13	0.0466
## 374675.6432	13	0.0466
## 379863.4404	13	0.0466
## 351269.718	12	0.0430
## 354380.8351	12	0.0430
## 360073.5698	12	0.0430
## 363080.6757	12	0.0430
## 363086.59	12	0.0430
## 365363.695	12	0.0430
## 366166.6936	12	0.0430
## 367613.7127	12	0.0430
## 367906.8082	12	0.0430
## 367922.7112	12	0.0430
## 368039.4008	12	0.0430
## 368122.8152	12	0.0430
## 368371.7085	12	0.0430
## 372306.6188	12	0.0430
## 382122.8521	12	0.0430
## 352207.6096	11	0.0394
## 353672.7253	11	0.0394
## 364274.7929	11	0.0394
## 364523.4969	11	0.0394
## 367792.7094	11	0.0394
## 368106.8135	11	0.0394
## 368109.5113	11	0.0394
## 370311.7131	11	0.0394
## 370432.7159	11	0.0394
## 370814.7203	11	0.0394
## 371608.7365	11	0.0394
## 372094.6122	11	0.0394
## 373367.4273	11	0.0394
## 379864.3397	11	0.0394
## 382635.955	11	0.0394
## 351267.9195	10	0.0358
## 354383.5328	10	0.0358
## 360246.5782	10	0.0358
## 361480.5763	10	0.0358
## 362550.5895	10	0.0358
## 363671.5855	10	0.0358
## 363932.7846	10	0.0358
## 364351.7005	10	0.0358
## 367868.8	10	0.0358
## 367923.6105	10	0.0358
## 368073.8119	10	0.0358
## 368107.7128	10	0.0358
## 368124.6138	10	0.0358
## 368204.9105	10	0.0358
## 370507.7344	10	0.0358

```
## 370826.7134      10    0.0358
## 371609.6358      10    0.0358
## 372146.7166      10    0.0358
## 372305.7195      10    0.0358
## 372595.7139      10    0.0358
## 372860.7241      10    0.0358
## 375576.9364      10    0.0358
## 375655.6342      10    0.0358
## 379860.7426      10    0.0358
## 379865.239       10    0.0358
## 379866.1383      10    0.0358
## 379867.0376      10    0.0358
## 379868.8362      10    0.0358
## 382890.8038      10    0.0358
## 383952.6596      10    0.0358
## 352675.718       9     0.0323
## 352840.7256      9     0.0323
## 360526.6745      9     0.0323
## 363081.575       9     0.0323
## 363226.7945      9     0.0323
## 364521.6983      9     0.0323
## (Other)           26696  95.6846

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

**Plot of Feature:XCOORD
Data:All 2011-Only 2011-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2012-Only 2012-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 317367 363595 367948 367518 372094 401821  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 383950.861      26    0.0980
## 368035.8037     24    0.0905
## 379858.944      24    0.0905
## 363669.787      23    0.0867
## 363080.6757     22    0.0829
## 362549.6902     19    0.0716
## 366932.7972     18    0.0678
## 360597.6843     15    0.0565
## 363670.6862     15    0.0565
## 367947.8106     15    0.0565
## 351269.718      14    0.0528
## 367391.6104     14    0.0528
## 367458.7103     14    0.0528
## 361479.677      13    0.0490
## 363083.8922     13    0.0490
## 363933.6839     13    0.0490
## 368123.7145     13    0.0490
## 370336.9527     13    0.0490
## 371608.7365     13    0.0490
## 375579.6342     13    0.0490
## 353673.6246     12    0.0452
## 361477.8785     12    0.0452
## 363934.5832     12    0.0452
## 364275.6922     12    0.0452
## 366109.9946     12    0.0452
## 367399.71       12    0.0452
## 368037.6022     12    0.0452
## 371607.8372     12    0.0452
## 373098.8281     12    0.0452
## 374672.9453     12    0.0452
## 379860.7426     12    0.0452
## 379864.3397     12    0.0452
## 380632.637      12    0.0452
## 352838.9271     11    0.0415
## 362062.5859     11    0.0415
## 363723.6817     11    0.0415
## 364359.6025     11    0.0415
## 364520.799      11    0.0415
## 367368.8116     11    0.0415
## 367390.7111     11    0.0415
## 371921.719      11    0.0415
## 373899.8389     11    0.0415
```

## 374506.8244	11	0.0415
## 382637.7536	11	0.0415
## 382638.6529	11	0.0415
## 382889.9045	11	0.0415
## 384845.6639	11	0.0415
## 353672.7253	10	0.0377
## 354381.7343	10	0.0377
## 354382.6336	10	0.0377
## 360497.5746	10	0.0377
## 360596.785	10	0.0377
## 362546.9924	10	0.0377
## 364276.5915	10	0.0377
## 364357.804	10	0.0377
## 364522.5976	10	0.0377
## 365613.5945	10	0.0377
## 366165.7943	10	0.0377
## 366768.7054	10	0.0377
## 367369.7109	10	0.0377
## 367447.707	10	0.0377
## 368107.7128	10	0.0377
## 368511.7072	10	0.0377
## 368635.6136	10	0.0377
## 369996.6193	10	0.0377
## 370216.9065	10	0.0377
## 370433.6152	10	0.0377
## 370507.7344	10	0.0377
## 370882.9252	10	0.0377
## 371544.8036	10	0.0377
## 372147.6159	10	0.0377
## 372306.6188	10	0.0377
## 372861.6234	10	0.0377
## 373099.7274	10	0.0377
## 374676.5425	10	0.0377
## 375577.8357	10	0.0377
## 379857.1454	10	0.0377
## 379859.8433	10	0.0377
## 389860.7736	10	0.0377
## 354380.8351	9	0.0339
## 357144.748	9	0.0339
## 360528.473	9	0.0339
## 363593.6882	9	0.0339
## 364643.3282	9	0.0339
## 368415.8038	9	0.0339
## 369133.5071	9	0.0339
## 370073.6091	9	0.0339
## 370431.8166	9	0.0339
## 370814.7203	9	0.0339
## 372304.8202	9	0.0339

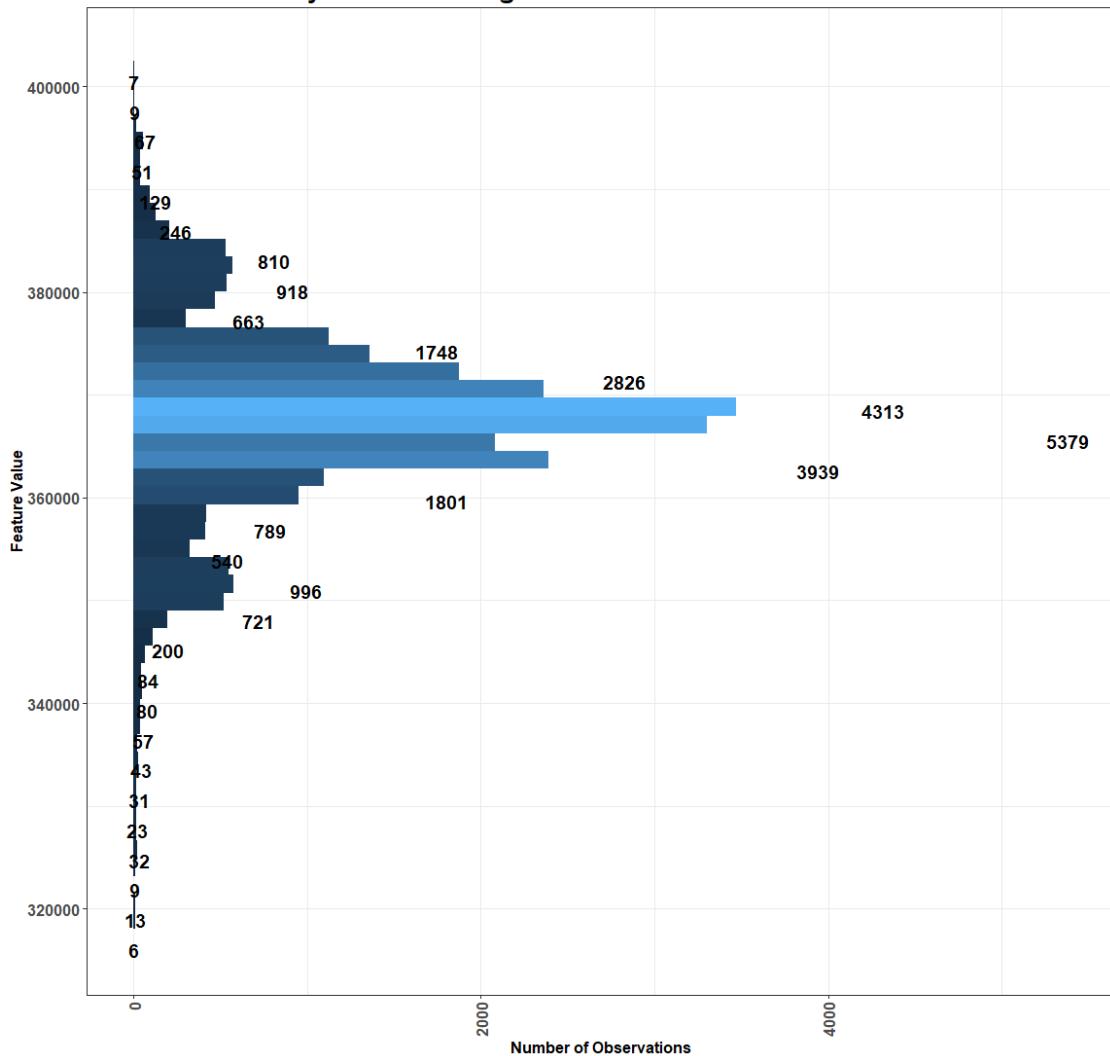
```

## 372860.7241      9    0.0339
## 374505.9251      9    0.0339
## 375576.9364      9    0.0339
## 375849.272       9    0.0339
## 350907.6168      8    0.0302
## 351270.6172      8    0.0302
## 352677.5165      8    0.0302
## 357065.7538      8    0.0302
## 360527.5737      8    0.0302
## (Other)          25391 95.7067

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

```

Plot of Feature:XCOORD
Data:All 2012-Only 2012-Homologated.csv



```

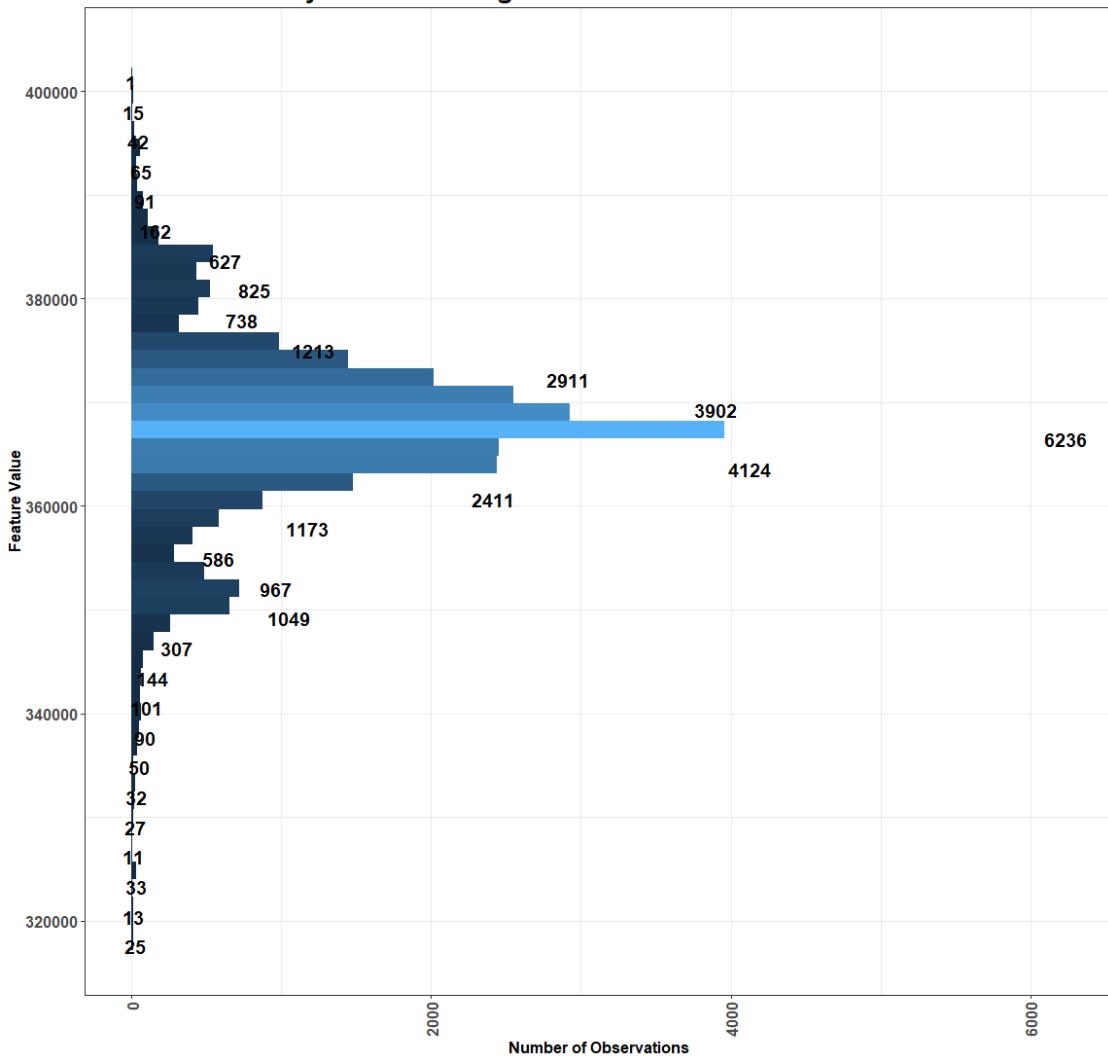
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##      Min. 1st Qu. Median Mean 3rd Qu. Max.
## 317703 363509 367820 367172 371884 401040
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 363669.787      25    0.0894
## 379858.944      21    0.0751
## 365612.6952     20    0.0715
## 367457.811      20    0.0715
## 363668.8877     18    0.0644
## 369129.91       18    0.0644
## 370431.8166     18    0.0644
## 371289.9303     17    0.0608
## 371544.8036     17    0.0608
## 352840.7256     16    0.0572
## 364358.7033     16    0.0572
## 374506.8244     16    0.0572
## 382890.8038     16    0.0572
## 361478.7777     15    0.0536
## 363055.7904     15    0.0536
## 363085.6907     15    0.0536
## 364858.6999     15    0.0536
## 351269.718      14    0.0501
## 360596.785      14    0.0501
## 366932.7972     14    0.0501
## 368034.9044     14    0.0501
## 368037.6022     14    0.0501
## 368242.8118     14    0.0501
## 368511.7072     14    0.0501
## 369995.72       14    0.0501
## 371607.8372     14    0.0501
## 374673.8446     14    0.0501
## 379861.6418     14    0.0501
## 363933.6839     13    0.0465
## 365234.7983     13    0.0465

```

## 373099.7274	13	0.0465
## 373762.8425	13	0.0465
## 383949.9617	13	0.0465
## 351268.8187	12	0.0429
## 362548.7909	12	0.0429
## 365053.7972	12	0.0429
## 367600.9109	12	0.0429
## 367611.9141	12	0.0429
## 367612.8134	12	0.0429
## 370337.852	12	0.0429
## 370668.8156	12	0.0429
## 370882.9252	12	0.0429
## 372091.9144	12	0.0429
## 372092.8136	12	0.0429
## 372858.9255	12	0.0429
## 379858.0447	12	0.0429
## 379859.8433	12	0.0429
## 384351.8533	12	0.0429
## 352676.6173	11	0.0393
## 361480.5763	11	0.0393
## 361933.7798	11	0.0393
## 363419.6899	11	0.0393
## 363671.5855	11	0.0393
## 364357.804	11	0.0393
## 365192.7978	11	0.0393
## 365610.8967	11	0.0393
## 365611.7959	11	0.0393
## 368732.9102	11	0.0393
## 369133.5071	11	0.0393
## 370683.8193	11	0.0393
## 372146.7166	11	0.0393
## 372859.8248	11	0.0393
## 373097.9288	11	0.0393
## 373704.8239	11	0.0393
## 374507.7237	11	0.0393
## 354381.7343	10	0.0358
## 363179.7873	10	0.0358
## 363932.7846	10	0.0358
## 364275.6922	10	0.0358
## 364892.9052	10	0.0358
## 365083.8951	10	0.0358
## 366427.7939	10	0.0358
## 366428.6932	10	0.0358
## 367390.7111	10	0.0358
## 367459.6095	10	0.0358
## 368123.7145	10	0.0358
## 370432.7159	10	0.0358
## 371606.9379	10	0.0358

```
## 371866.8344      10    0.0358
## 372303.9209      10    0.0358
## 373898.9396      10    0.0358
## 374508.623       10    0.0358
## 375047.7247      10    0.0358
## 375361.9439      10    0.0358
## 379860.7426      10    0.0358
## 382122.8521      10    0.0358
## 382636.8543      10    0.0358
## 349290.6246      9     0.0322
## 349559.6845      9     0.0322
## 351049.8092      9     0.0322
## 351267.9195      9     0.0322
## 360554.6858      9     0.0322
## 362282.6921      9     0.0322
## 363078.8772      9     0.0322
## 363079.7765      9     0.0322
## 363592.7889      9     0.0322
## 363856.7929      9     0.0322
## 364522.5976      9     0.0322
## 364640.6304      9     0.0322
## (Other)           26759  95.6669
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

**Plot of Feature:XCOORD
Data:All 2013-Only 2013-Homologated.csv**



```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2014-Only 2014-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:348  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median   Mean 3rd Qu.   Max.  
##        0  363334  367844  362513  371546  401482  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 0 348 1.2751
## 379861.2164 44 0.1612
## 379860.2686 32 0.1173
## 362549.2163 24 0.0879
## 367459.1842 19 0.0696
## 351269.2441 18 0.0660
## 361480.1509 18 0.0660
## 367458.7103 18 0.0660
## 370338.3259 18 0.0660
## 373100.2013 18 0.0660
## 367458.2364 17 0.0623
## 364351.2266 16 0.0586
## 368121.1049 16 0.0586
## 351270.1919 15 0.0550
## 363080.2018 15 0.0550
## 363934.1578 15 0.0550
## 368036.703 15 0.0550
## 362550.1641 14 0.0513
## 363724.1556 14 0.0513
## 366935.7449 14 0.0513
## 368037.1769 14 0.0513
## 368120.631 14 0.0513
## 379862.1643 14 0.0513
## 383640.9751 14 0.0513
## 363670.2171 13 0.0476
## 363933.6839 13 0.0476
## 365085.15 13 0.0476
## 369129.2188 13 0.0476
## 370073.1837 13 0.0476
## 373110.2403 13 0.0476
## 363080.6757 12 0.0440
## 363297.7452 12 0.0440
## 363672.1128 12 0.0440
## 363933.21 12 0.0440
## 364359.1772 12 0.0440
## 365613.1691 12 0.0440
## 367460.1321 12 0.0440
## 368036.2291 12 0.0440
## 368373.1631 12 0.0440
## 370218.705 12 0.0440
## 370432.242 12 0.0440
## 370433.1898 12 0.0440
```

## 372305.2456	12	0.0440
## 372306.1934	12	0.0440
## 372542.1943	12	0.0440
## 373098.3056	12	0.0440
## 383952.2342	12	0.0440
## 361022.1465	11	0.0403
## 361479.677	11	0.0403
## 362551.112	11	0.0403
## 362942.6979	11	0.0403
## 363298.6953	11	0.0403
## 363419.6899	11	0.0403
## 363670.691	11	0.0403
## 367922.2362	11	0.0403
## 367923.184	11	0.0403
## 368107.6253	11	0.0403
## 370337.345	11	0.0403
## 370683.2968	11	0.0403
## 371545.229	11	0.0403
## 373707.145	11	0.0403
## 383950.3385	11	0.0403
## 353674.0988	10	0.0366
## 360598.1582	10	0.0366
## 363057.1635	10	0.0366
## 363311.6864	10	0.0366
## 363671.1649	10	0.0366
## 363673.0607	10	0.0366
## 363932.2621	10	0.0366
## 364263.2714	10	0.0366
## 364276.3451	10	0.0366
## 365055.1703	10	0.0366
## 366814.2241	10	0.0366
## 367908.1814	10	0.0366
## 369306.1389	10	0.0366
## 371019.0019	10	0.0366
## 371547.1247	10	0.0366
## 371608.7365	10	0.0366
## 372390.3029	10	0.0366
## 375507.276	10	0.0366
## 380887.749	10	0.0366
## 382638.7037	10	0.0366
## 382639.1754	10	0.0366
## 383184.4038	10	0.0366
## 383951.2864	10	0.0366
## 350489.6085	9	0.0330
## 354620.1484	9	0.0330
## 360246.1529	9	0.0330
## 360597.6843	9	0.0330
## 361490.4382	9	0.0330

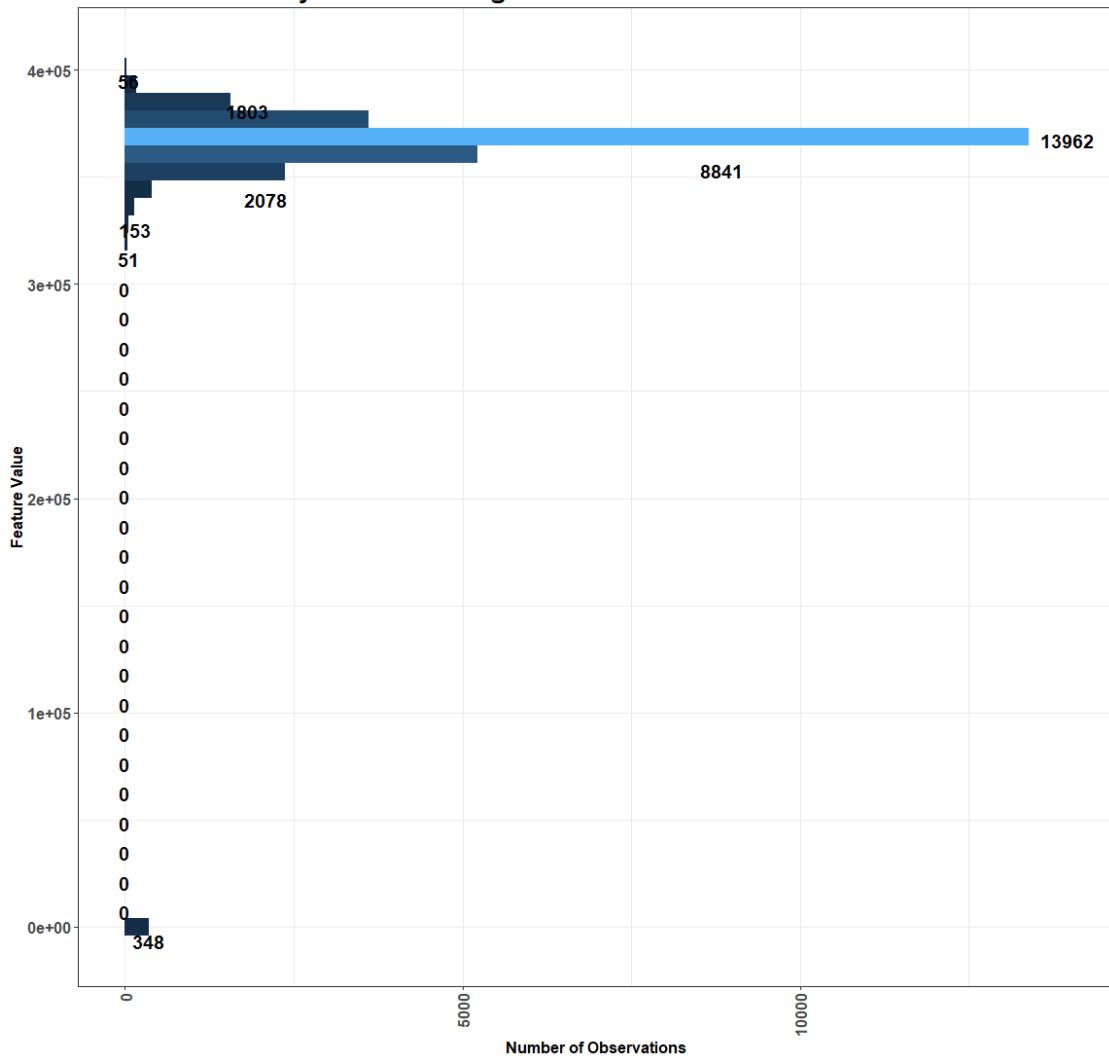
```

## 363594.1621      9    0.0330
## 364358.7033      9    0.0330
## 364854.1753      9    0.0330
## 365417.1726      9    0.0330
## 365832.6142      9    0.0330
## 367583.7135      9    0.0330
## 367743.2824      9    0.0330
## 370434.1377      9    0.0330
## 370684.7186      9    0.0330
## (Other)          25725 94.2584

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

```

**Plot of Feature:XCOORD
Data:All 2014-Only 2014-Homologated.csv**



```

##
## -----
## CHECKING FEATURE:XCOORD

```

```

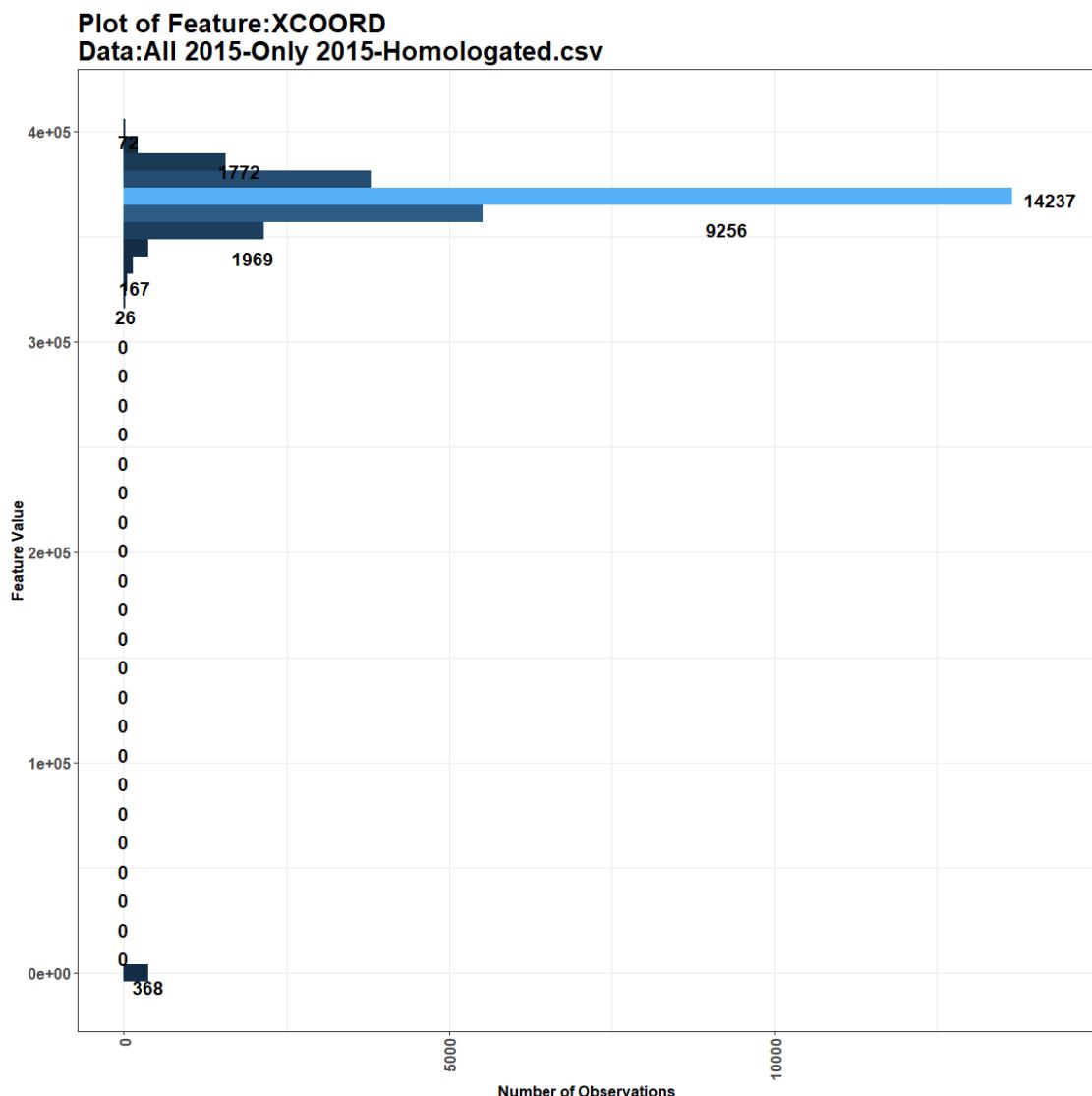
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:368
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median     Mean 3rd Qu.      Max.
##       0    363723  368004  362765  372012  401809
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value   Counter Percentage
## -----
## 0               368      1.3206
## 368036.703      47      0.1687
## 372093.7129     30      0.1077
## 372305.7195     30      0.1077
## 383951.7603     30      0.1077
## 375578.7349     29      0.1041
## 367458.7103     28      0.1005
## 372860.7241     27      0.0969
## 369225.7159     26      0.0933
## 379860.7425     26      0.0933
## 372903.7226     25      0.0897
## 364858.6999     24      0.0861
## 369995.72       24      0.0861
## 371545.7029     24      0.0861
## 365085.15       23      0.0825
## 370432.7159     23      0.0825
## 373099.7274     23      0.0825
## 363670.691      22      0.0789
## 367948.7099     22      0.0789
## 371608.7365     22      0.0789
## 353673.6249     21      0.0754
## 365612.6952     21      0.0754
## 368511.7072     21      0.0754
## 370684.7186     21      0.0754
## 366935.271      20      0.0718
## 368315.9333     20      0.0718
## 370802.0781     20      0.0718
## 374147.7258     20      0.0718
## 374507.7237     20      0.0718
## 383183.9299     20      0.0718

```

## 360597.6843	19	0.0682
## 362550.6541	19	0.0682
## 370072.7098	19	0.0682
## 379861.7064	19	0.0682
## 362549.6902	18	0.0646
## 363419.6899	18	0.0646
## 368037.6669	18	0.0646
## 368373.637	18	0.0646
## 370337.852	18	0.0646
## 375047.7247	18	0.0646
## 376125.7305	18	0.0646
## 362942.6979	17	0.0610
## 364358.7033	17	0.0610
## 365235.7	17	0.0610
## 366166.6936	17	0.0610
## 367371.9189	17	0.0610
## 367572.7185	17	0.0610
## 368035.9823	17	0.0610
## 368037.4237	17	0.0610
## 368121.1049	17	0.0610
## 368248.7013	17	0.0610
## 380631.7377	17	0.0610
## 364351.7005	16	0.0574
## 367252.7085	16	0.0574
## 367457.9896	16	0.0574
## 367922.7101	16	0.0574
## 383952.7242	16	0.0574
## 352206.8903	15	0.0538
## 352841.6249	15	0.0538
## 360245.679	15	0.0538
## 363080.6757	15	0.0538
## 365973.7076	15	0.0538
## 368109.0471	15	0.0538
## 370118.7151	15	0.0538
## 370884.7238	15	0.0538
## 373705.7232	15	0.0538
## 373763.74	15	0.0538
## 351269.718	14	0.0502
## 352207.611	14	0.0502
## 364642.429	14	0.0502
## 366829.71	14	0.0502
## 370218.705	14	0.0502
## 370676.3849	14	0.0502
## 370685.4393	14	0.0502
## 372860.0034	14	0.0502
## 374188.7282	14	0.0502
## 374674.7439	14	0.0502
## 375507.7499	14	0.0502

```
## 382889.8399      14    0.0502
## 382890.8038      14    0.0502
## 383951.0396      14    0.0502
## 348804.5759      13    0.0467
## 351553.6086      13    0.0467
## 366891.7126      13    0.0467
## 368038.7415      13    0.0467
## 370311.7131      13    0.0467
## 370683.9979      13    0.0467
## 372391.7247      13    0.0467
## 372823.7387      13    0.0467
## 383182.966       13    0.0467
## 355961.6341      12    0.0431
## 363739.6834      12    0.0431
## 363933.6839      12    0.0431
## 367370.955       12    0.0431
## 368767.7102      12    0.0431
## 369226.4366      12    0.0431
## 370677.1056      12    0.0431
## 371609.4572      12    0.0431
## 373903.4708      12    0.0431
## (Other)           25750  92.4032

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



```
##  
## -----  
## CHECKING FEATURE:XCOORD  
## DATA:All 2016-Only 2016-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 318617 363670 367913 367481 372120 401606  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value Counter Percentage
## -----
## 383640.9751      32    0.1238
## 353455.2261      21    0.0812
## 375578.7349      19    0.0735
## 379860.7425      14    0.0541
## 384682.4877      14    0.0541
## 348803.086       12    0.0464
## 371608.956       11    0.0425
## 372093.7129      11    0.0425
## 384428.3389      11    0.0425
## 351269.718       10    0.0387
## 361934.6841      10    0.0387
## 364859.5281      10    0.0387
## 368036.703       10    0.0387
## 372093.4934      10    0.0387
## 379860.4762      10    0.0387
## 348795.2         9     0.0348
## 363670.0324      9     0.0348
## 364858.0413      9     0.0348
## 368167.711       9     0.0348
## 380460.1365      9     0.0348
## 350455.6007      8     0.0309
## 361767.4641      8     0.0309
## 362549.0316      8     0.0309
## 363080.0171      8     0.0309
## 364357.8751      8     0.0309
## 365085.15        8     0.0309
## 365250.7012      8     0.0309
## 365461.8729      8     0.0309
## 367458.7103      8     0.0309
## 368036.4785      8     0.0309
## 368248.0427      8     0.0309
## 369487.473       8     0.0309
## 370218.5349      8     0.0309
## 370884.5043      8     0.0309
## 378961.9816      8     0.0309
## 384683.5529      8     0.0309
## 351001.4707      7     0.0271
## 359720.3337      7     0.0271
## 360597.4648      7     0.0271
## 362942.0393      7     0.0271
## 363670.4715      7     0.0271
## 365192.8689      7     0.0271
```

## 365193.4776	7	0.0271
## 365611.867	7	0.0271
## 366071.9713	7	0.0271
## 367398.8818	7	0.0271
## 368109.8753	7	0.0271
## 371094.3439	7	0.0271
## 383951.7603	7	0.0271
## 350455.3812	6	0.0232
## 352207.3915	6	0.0232
## 357579.3114	6	0.0232
## 357720.5379	6	0.0232
## 360006.8952	6	0.0232
## 360072.0119	6	0.0232
## 361479.4575	6	0.0232
## 361479.677	6	0.0232
## 362549.6902	6	0.0232
## 362706.4614	6	0.0232
## 363187.0869	6	0.0232
## 363196.3403	6	0.0232
## 363560.4805	6	0.0232
## 363670.691	6	0.0232
## 364351.7005	6	0.0232
## 364359.5315	6	0.0232
## 364829.2929	6	0.0232
## 364857.0436	6	0.0232
## 365054.4769	6	0.0232
## 365130.385	6	0.0232
## 365149.4811	6	0.0232
## 365329.062	6	0.0232
## 365567.3359	6	0.0232
## 365626.6926	6	0.0232
## 366106.9822	6	0.0232
## 366161.0597	6	0.0232
## 366166.6936	6	0.0232
## 366422.8171	6	0.0232
## 366574.4063	6	0.0232
## 367371.2603	6	0.0232
## 367390.0525	6	0.0232
## 367446.6093	6	0.0232
## 367458.0517	6	0.0232
## 367459.5385	6	0.0232
## 368035.0467	6	0.0232
## 368035.6053	6	0.0232
## 368036.0444	6	0.0232
## 368036.4835	6	0.0232
## 368082.4926	6	0.0232
## 368121.1049	6	0.0232
## 368121.9331	6	0.0232

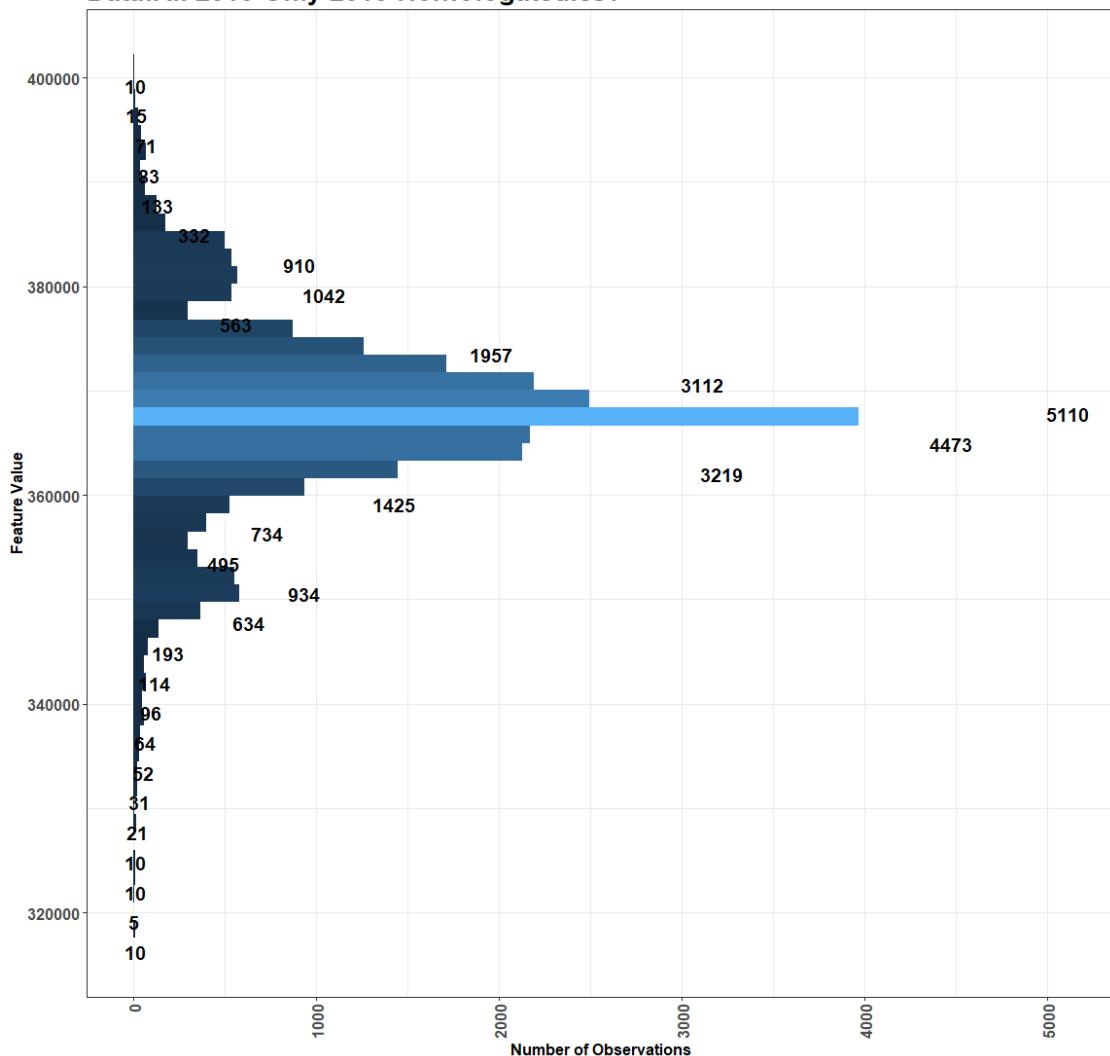
```

## 368235.6976      6    0.0232
## 368426.5965      6    0.0232
## 368958.3921      6    0.0232
## 370072.7098      6    0.0232
## 370676.3849      6    0.0232
## 370676.6044      6    0.0232
## 370851.7305      6    0.0232
## 371120.7247      6    0.0232
## 371421.9501      6    0.0232
## (Other)          25089  97.0261

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

```

Plot of Feature:XCOORD
Data:All 2016-Only 2016-Homologated.csv



```

## 
## -----
## CHECKING FEATURE:XCOORD

```

```

## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median     Mean 3rd Qu.      Max.
## 317874  363234  367649  367169  371867  400271
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF XCOORD
##
## Feature Value    Counter   Percentage
## -----
## 383640.9751        39       0.1469
## 361934.6841        37       0.1394
## 363298.6953        25       0.0942
## 363671.6943        21       0.0791
## 379860.7425        20       0.0754
## 384428.3389        20       0.0754
## 353455.2261        17       0.0641
## 361288.4381        16       0.0603
## 368037.0375        15       0.0565
## 383951.7603        15       0.0565
## 362549.6902        14       0.0527
## 363671.0255        14       0.0527
## 379861.7458        14       0.0527
## 361479.677         13       0.0490
## 363934.0184        13       0.0490
## 365055.0309        13       0.0490
## 370218.3706        13       0.0490
## 348803.086         12       0.0452
## 362550.0247        12       0.0452
## 363833.6895        12       0.0452
## 367459.0448        12       0.0452
## 368511.7072        12       0.0452
## 375047.7247        12       0.0452
## 379859.7392        12       0.0452
## 379861.077         12       0.0452
## 383951.4259        12       0.0452
## 369995.3856        11       0.0414
## 370801.7437        11       0.0414
## 372861.0586        11       0.0414
## 375046.7214        11       0.0414

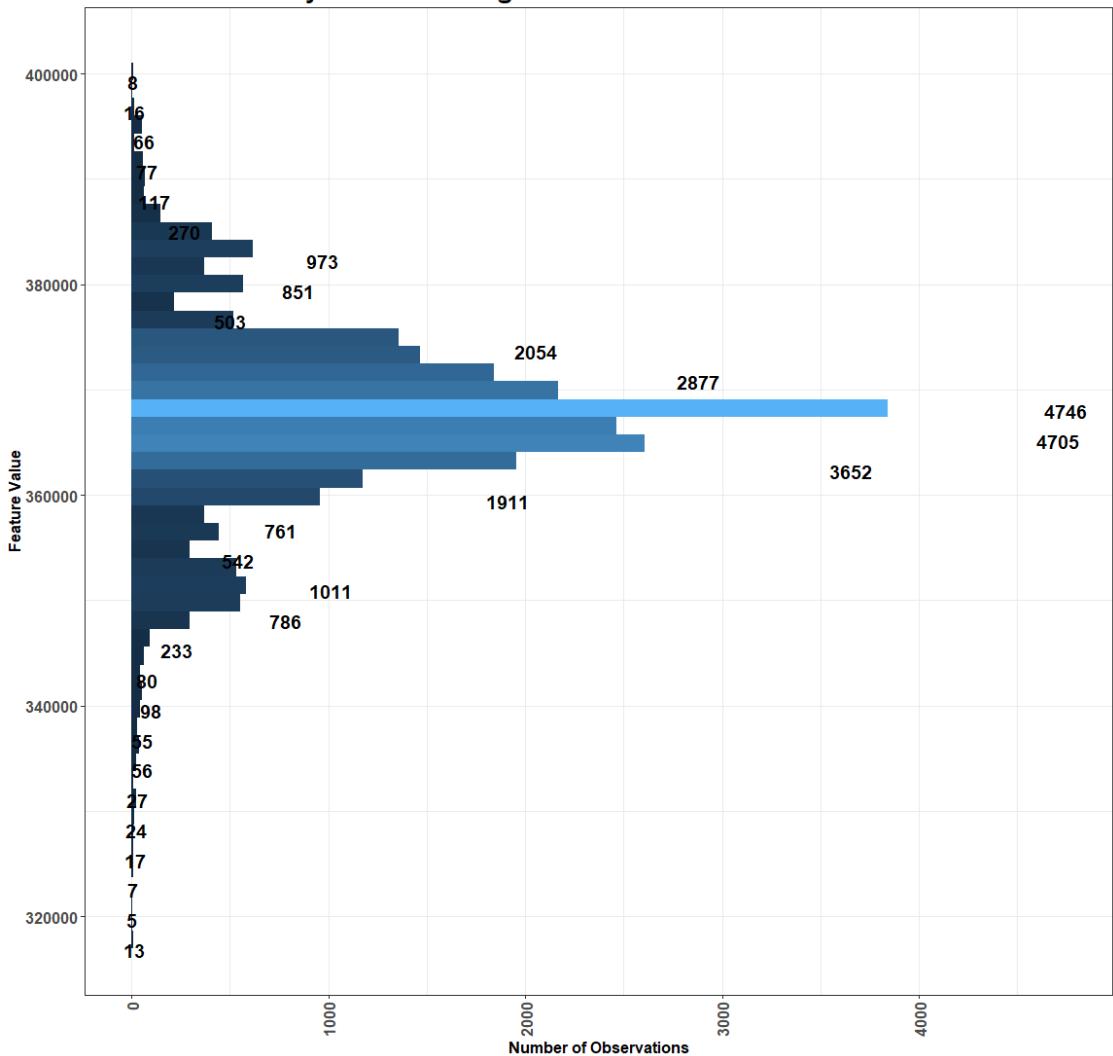
```

## 375047.3903	11	0.0414
## 348804.9104	10	0.0377
## 360531.6435	10	0.0377
## 360597.6843	10	0.0377
## 362550.1636	10	0.0377
## 363080.3413	10	0.0377
## 364173.2121	10	0.0377
## 364352.035	10	0.0377
## 365193.3627	10	0.0377
## 365527.377	10	0.0377
## 365613.0297	10	0.0377
## 367458.7103	10	0.0377
## 367459.7136	10	0.0377
## 368036.3686	10	0.0377
## 368036.703	10	0.0377
## 368373.637	10	0.0377
## 370677.3882	10	0.0377
## 371947.0624	10	0.0377
## 372093.7129	10	0.0377
## 373706.7265	10	0.0377
## 379860.4081	10	0.0377
## 363527.6934	9	0.0339
## 363933.6839	9	0.0339
## 364255.69	9	0.0339
## 366892.0471	9	0.0339
## 367922.3757	9	0.0339
## 368372.6337	9	0.0339
## 368550.7052	9	0.0339
## 369654.8152	9	0.0339
## 370218.705	9	0.0339
## 372093.2395	9	0.0339
## 372094.7162	9	0.0339
## 372748.7202	9	0.0339
## 373705.7232	9	0.0339
## 373829.0566	9	0.0339
## 349262.971	8	0.0301
## 349525.1206	8	0.0301
## 349676.08	8	0.0301
## 352207.2766	8	0.0301
## 352207.611	8	0.0301
## 352678.8814	8	0.0301
## 353673.6249	8	0.0301
## 357066.6521	8	0.0301
## 359718.343	8	0.0301
## 362062.0211	8	0.0301
## 363080.6757	8	0.0301
## 363670.691	8	0.0301
## 364275.3578	8	0.0301



```
## 364351.7005      8    0.0301
## 364357.7         8    0.0301
## 364858.6999      8    0.0301
## 364949.019        8    0.0301
## 365054.6964      8    0.0301
## 365085.15         8    0.0301
## 366379.3555      8    0.0301
## 366900.7115      8    0.0301
## 367447.707        8    0.0301
## 367572.3841      8    0.0301
## 367949.0444      8    0.0301
## 368248.7013      8    0.0301
## 368316.2678      8    0.0301
## 368374.6403      8    0.0301
## 368739.7072      8    0.0301
## 369225.3815      8    0.0301
## 370072.7098      8    0.0301
## 371019.5313      8    0.0301
## 371608.7365      8    0.0301
## 372147.0511      8    0.0301
## 372304.7162      8    0.0301
## (Other)           25461 95.9308
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

Plot of Feature:XCOORD
Data:All 2017-Only 2017-Homologated.csv



```
##  

## =====  

## FINAL INFO CHECKING FEATURE:XCOORD  

## ALL DATA...  

## =====  

##  

## Number of Blank Values:0  

## Number of Zero Values:716  

## Number of Negative Values:0  

##  

## Summary per Data File:  

## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv  

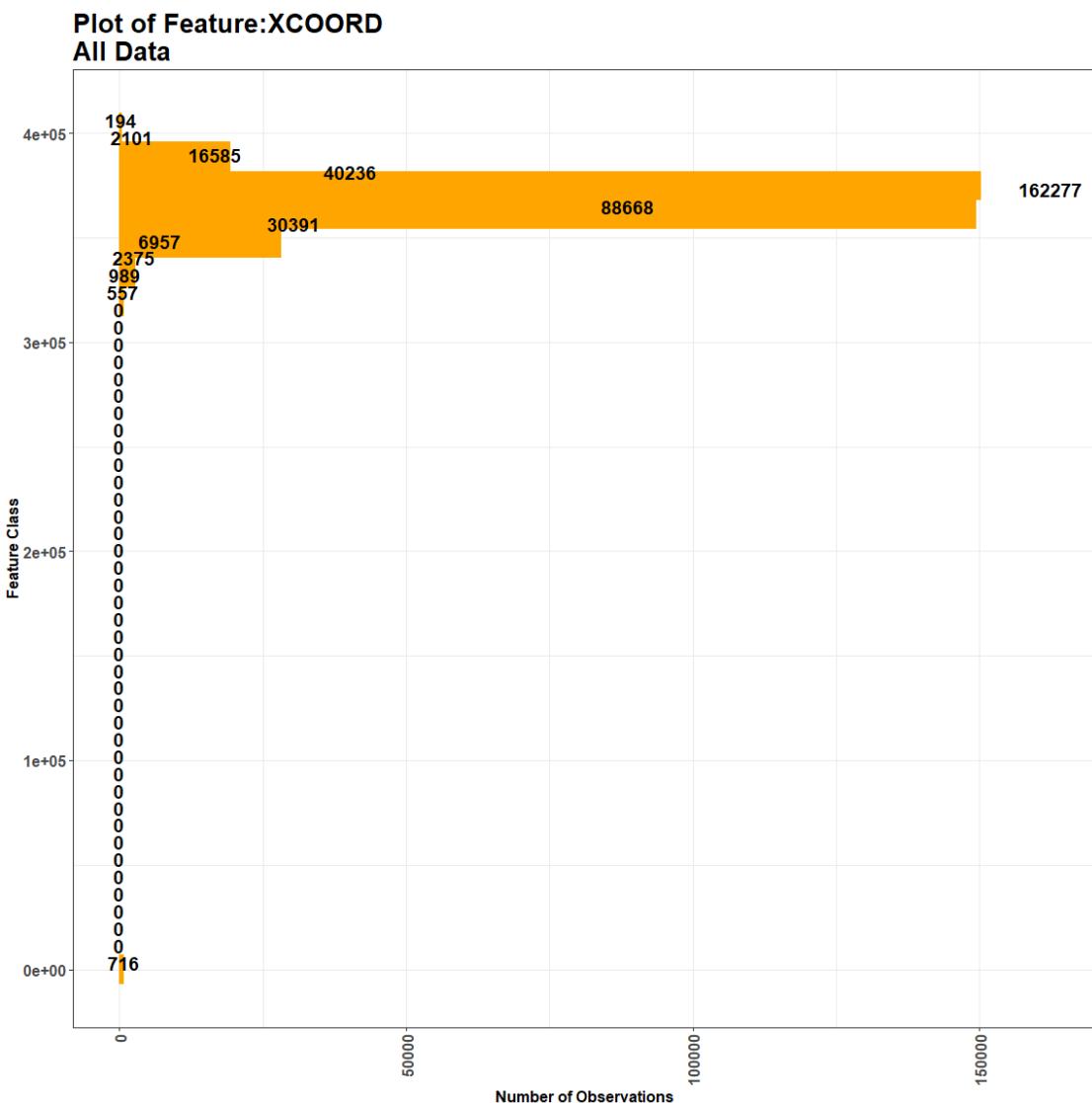
## 25669 26605  

## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv  

## 26073 27755
```

```
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                               28502                         28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                               27483                         27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                               26530                         27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                               27292                         27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                               25858                         26541
##
##
## Summary as Numeric Feature:
##   Min. 1st Qu. Median   Mean 3rd Qu.   Max.   NA's
##       0  363427  367871  366519  371869  402732  28453
##
## Summary as Factor Feature:
## Number of Features: 100

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



```
## [1] "TOP 100 FEATURES COUNTERS OF :XCOORD"
```

Feature Value	Counter	Percentage
0	716	0.1882
368036.703	169	0.0444
370432.7159	160	0.0421
379860.7426	153	0.0402
366264.5929	143	0.0376
367458.7103	134	0.0352
383951.7603	122	0.0321
371608.7365	121	0.0318
373099.7274	119	0.0313

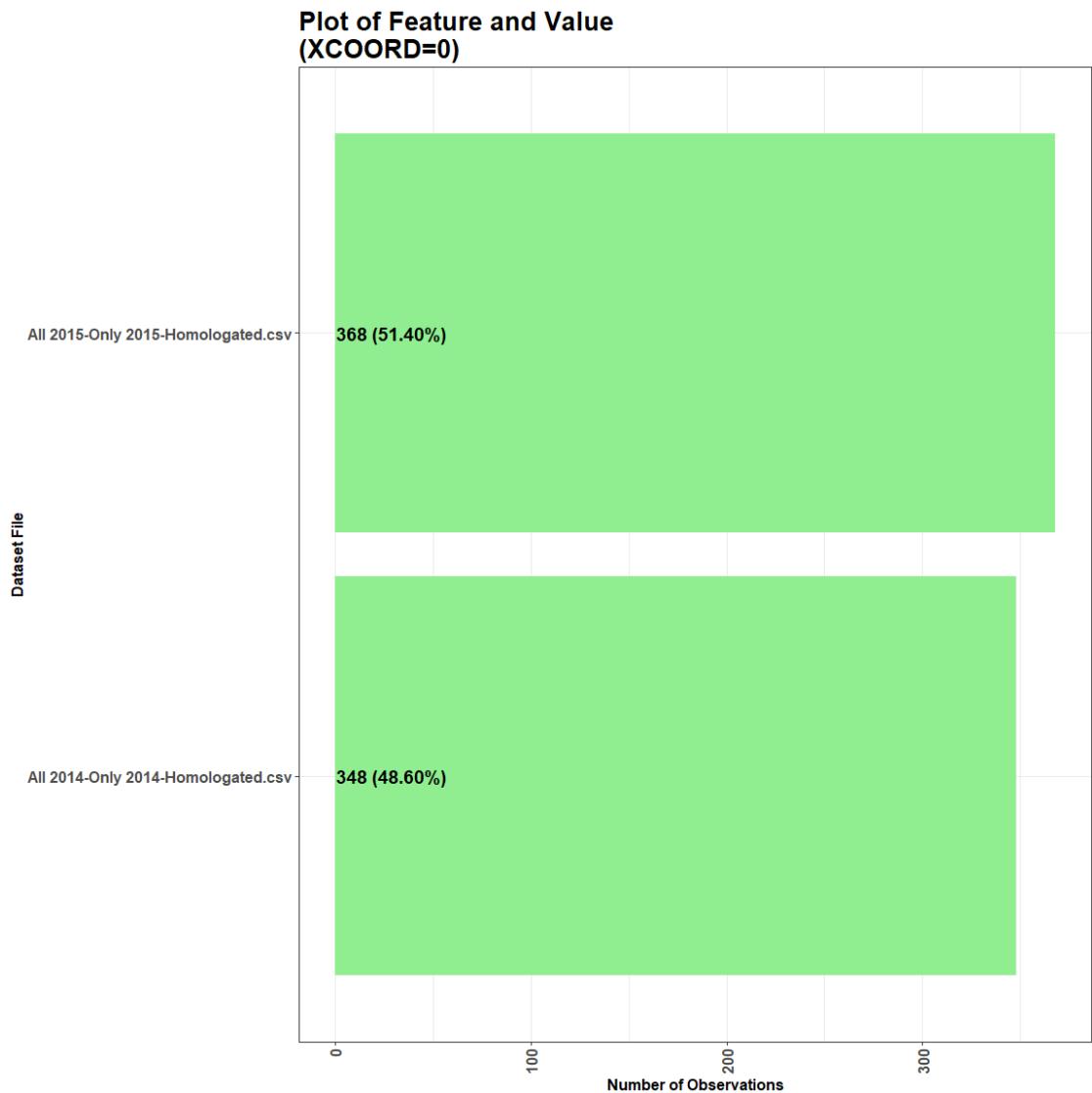
362549.6902	117	0.0307
364858.6999	113	0.0297
363080.6757	112	0.0294
372093.7129	111	0.0292
368511.7072	104	0.0273
369995.72	103	0.0271
362702.6883	102	0.0268
375578.7349	102	0.0268
363933.6839	99	0.0260
365612.6952	99	0.0260
368037.6022	99	0.0260
361479.677	98	0.0258
368035.8037	95	0.0250
372305.7195	95	0.0250
374674.7439	95	0.0250
363669.787	91	0.0239
383640.9751	89	0.0234
351269.718	87	0.0229
370218.705	87	0.0229
360597.6843	86	0.0226
372860.7241	85	0.0223
362548.7909	84	0.0221
364358.7033	84	0.0221
363419.6899	82	0.0216
362061.6866	80	0.0210
367457.811	79	0.0208
366166.6936	78	0.0205
363671.5855	77	0.0202
362942.6979	76	0.0200
368124.6138	75	0.0197
368248.7013	75	0.0197
370072.7098	75	0.0197
370337.852	74	0.0194
382890.8038	74	0.0194
364351.7005	73	0.0192

373110.7142	73	0.0192
375047.7247	73	0.0192
364521.6983	72	0.0189
368038.5015	72	0.0189
368039.4008	71	0.0187
379858.944	71	0.0187
363672.4848	70	0.0184
367907.7075	69	0.0181
371609.6358	69	0.0181
372859.8248	69	0.0181
374147.7258	69	0.0181
374507.7237	69	0.0181
363298.6953	68	0.0179
370684.7186	68	0.0179
371545.7029	67	0.0176
363670.6862	65	0.0171
370311.7131	65	0.0171
370507.7344	65	0.0171
372091.9144	65	0.0171
383950.861	65	0.0171
352841.6249	64	0.0168
363673.3841	64	0.0168
364276.5915	64	0.0168
367459.6095	64	0.0168
368123.7145	64	0.0168
372306.6188	64	0.0168
373705.7232	64	0.0168
379860.7425	64	0.0168
354382.6336	63	0.0166
368125.513	63	0.0166
372092.8136	63	0.0166
372304.8202	63	0.0166
365054.6964	62	0.0163
367948.7099	62	0.0163
372903.7226	62	0.0163

374673.8446	62	0.0163
366167.5928	61	0.0160
370884.7238	61	0.0160
379859.8433	61	0.0160
363079.7765	60	0.0158
367906.8082	60	0.0158
368034.9044	60	0.0158
368739.7072	60	0.0158
373098.8281	60	0.0158
349864.6086	59	0.0155
362282.6921	59	0.0155
364357.804	59	0.0155
368122.8152	59	0.0155
369131.7086	59	0.0155
374506.8244	59	0.0155
354380.8351	58	0.0152
368370.8092	58	0.0152
361480.5763	57	0.0150
362550.5895	57	0.0150
(Other)	343600	90.3025
NA's	28453	7.4778

28.1 XCOORD = "0"

```
##
## =====
## CHECKING FEATURE AND VALUE (XCOORD=0)
##
## Summary per Data File:
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                                     348                               368
```



DATASET FILE	COUNTER OF (XCOORD=0)	Percentage
All 2014-Only 2014-Homologated.csv	348	48.6
All 2015-Only 2015-Homologated.csv	368	51.4

28.2 XCOORD = "402732"

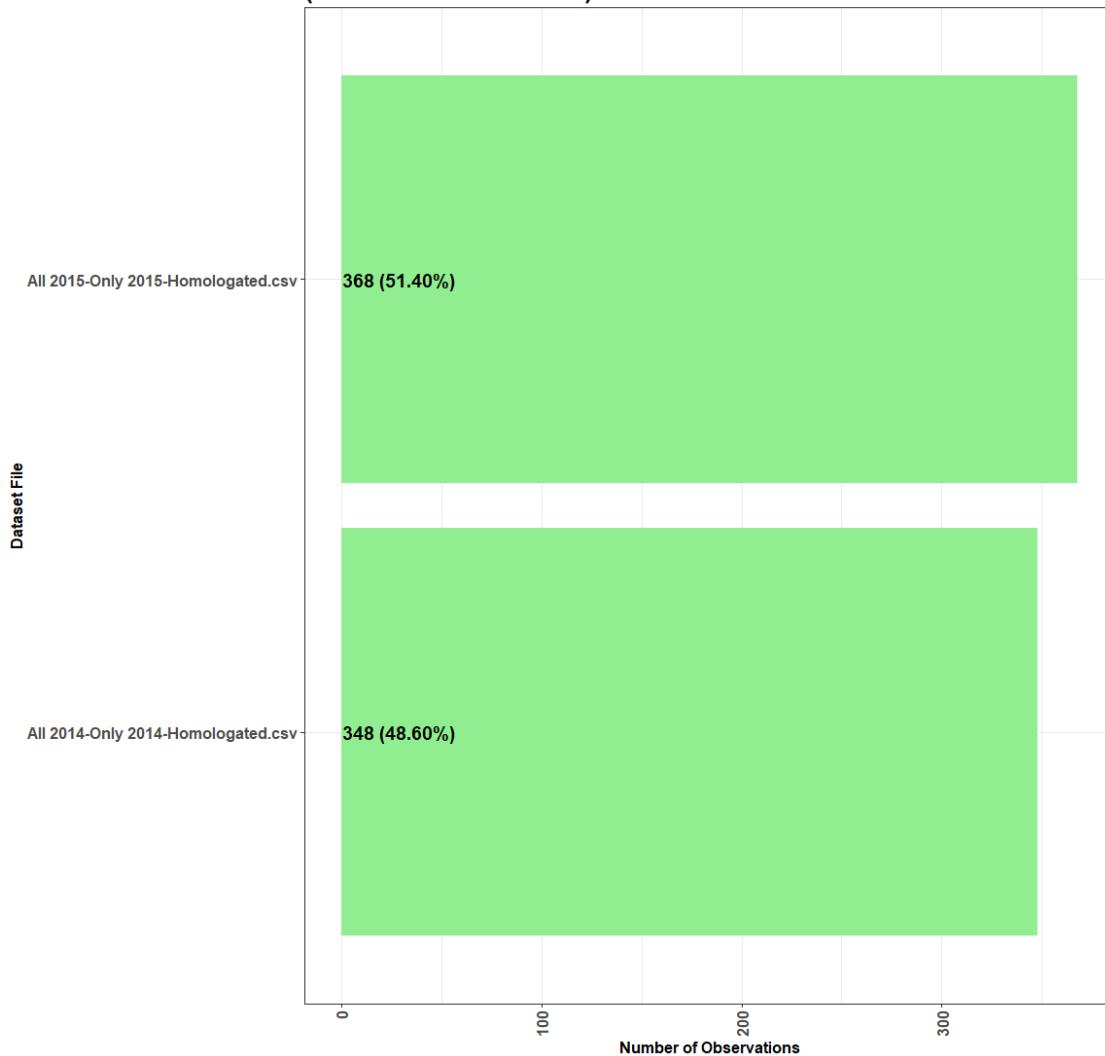
```
##  
## =====  
## CHECKING FEATURE AND VALUE (XCOORD=402732)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (XCOORD=402732) Percentage -----

28.3 XCOORD < “316082.007”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (XCOORD<316082.007)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 348 368
```

**Plot of Feature and Value
(XCOORD<316082.007)**



DATASET FILE	COUNTER OF (XCOORD<316082.007)	Percentage
All 2014-Only 2014-Homologated.csv	348	48.6
All 2015-Only 2015-Homologated.csv	368	51.4

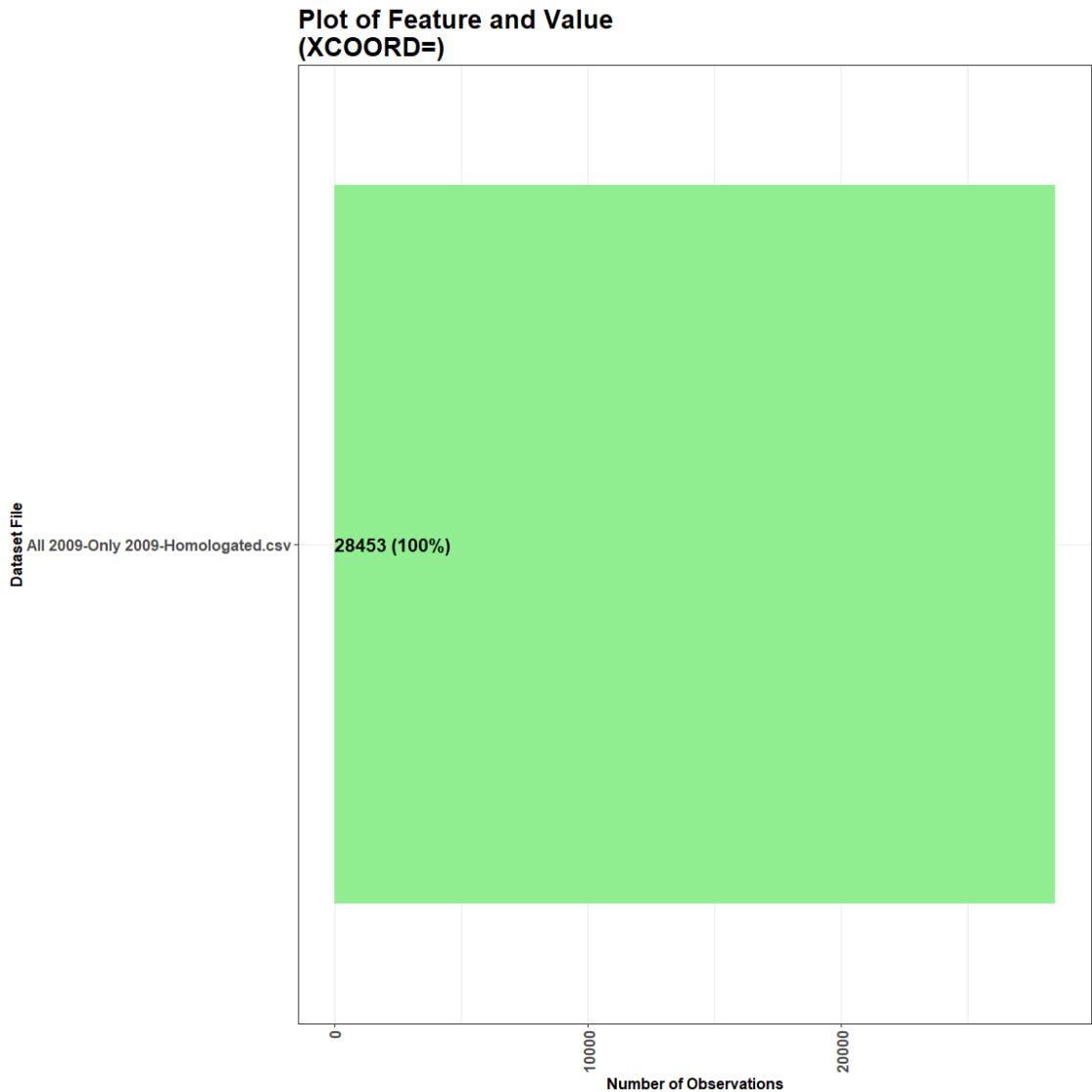
28.4 XCOORD > “402774.195”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (XCOORD>402774.195)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (XCOORD>402774.195) Percentage ----- -----

28.5 XCOORD = “” (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (XCOORD=)  
##  
## Summary per Data File:  
## All 2009-Only 2009-Homologated.csv  
## 28453
```



DATASET FILE	COUNTER OF (XCOORD=)	Percentage
All 2009-Only 2009-Homologated.csv	28453	100

29. Y Coord (YCOORD)

```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##
```

```

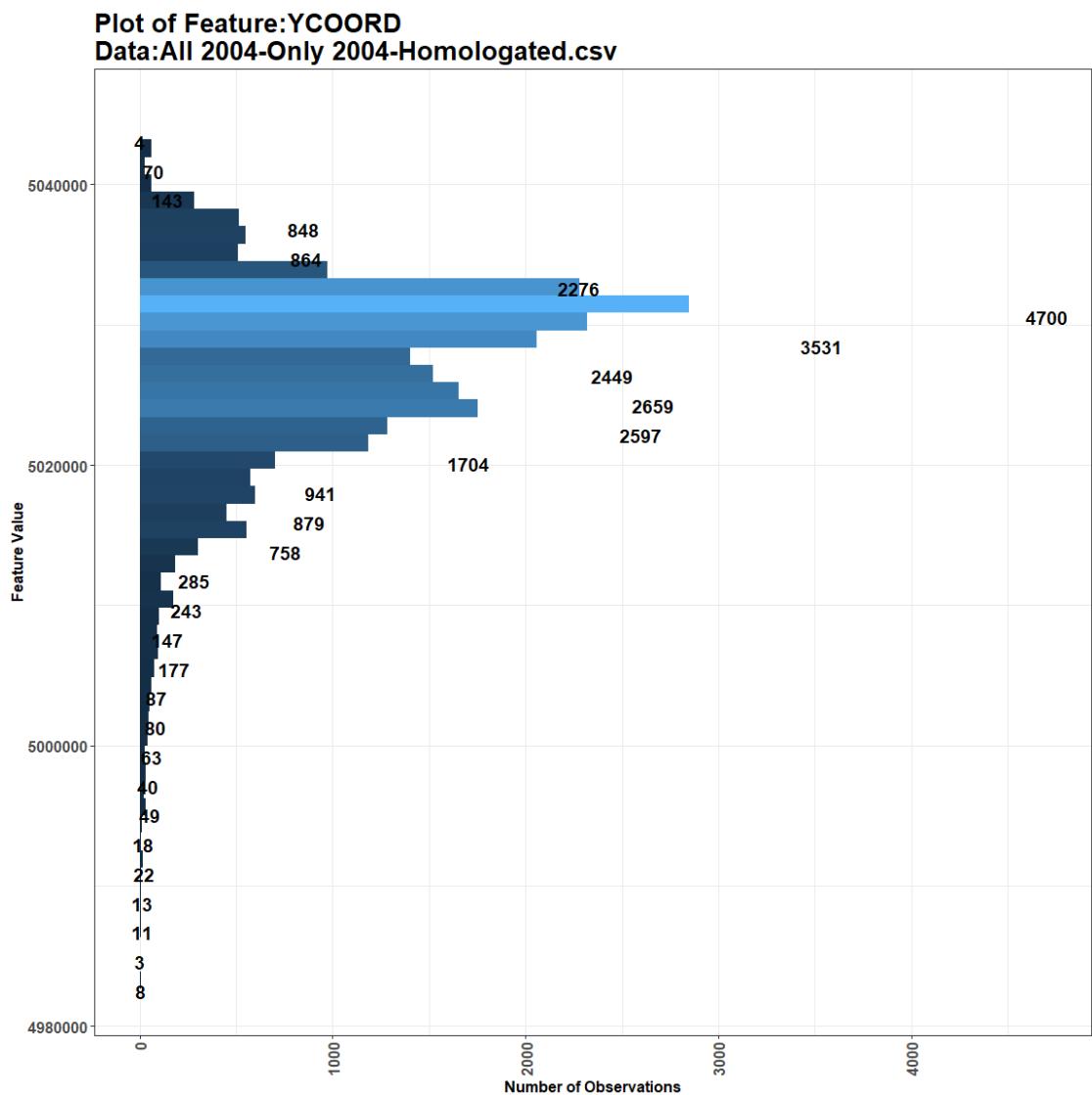
## Summary as Numeric Feature:
##   Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4982834 5023070 5028056 5026611 5031487 5043380
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5031016.344      68     0.2649
## 5029081.557      33     0.1286
## 5036471.581      29     0.1130
## 5023465.505      25     0.0974
## 5021226.529      24     0.0935
## 5023171.237      19     0.0740
## 5021946.714      17     0.0662
## 5023490.538      17     0.0662
## 5021948.334      15     0.0584
## 5026851.138      14     0.0545
## 5023770.91       13     0.0506
## 5026631.186      13     0.0506
## 5028433.58       13     0.0506
## 5029337.587      13     0.0506
## 5032828.044      13     0.0506
## 5019557.645      12     0.0467
## 5026441.367      12     0.0467
## 5030394.589      12     0.0467
## 5030579.777      12     0.0467
## 5030668.586      12     0.0467
## 5032413.994      12     0.0467
## 5024101.961      11     0.0429
## 5026222.117      11     0.0429
## 5031120.779      11     0.0429
## 5031952.79       11     0.0429
## 5021245.276      10     0.0390
## 5021248.516      10     0.0390
## 5021945.094      10     0.0390
## 5024889.298      10     0.0390
## 5031688.165      10     0.0390
## 5031964.586      10     0.0390
## 5021945.333       9     0.0351
## 5024474.347       9     0.0351
## 5024507.931       9     0.0351
## 5025948.95        9     0.0351
## 5030005.162       9     0.0351

```

## 5031019.409	9	0.0351
## 5031118.35	9	0.0351
## 5032378.611	9	0.0351
## 5032472.18	9	0.0351
## 5034516.188	9	0.0351
## 5016197.278	8	0.0312
## 5018424.064	8	0.0312
## 5018498.871	8	0.0312
## 5019555.215	8	0.0312
## 5021891.909	8	0.0312
## 5023773.34	8	0.0312
## 5023864.919	8	0.0312
## 5023865.729	8	0.0312
## 5024511.981	8	0.0312
## 5024839.933	8	0.0312
## 5024888.488	8	0.0312
## 5025045.303	8	0.0312
## 5025326.73	8	0.0312
## 5025500.377	8	0.0312
## 5026354.534	8	0.0312
## 5026852.757	8	0.0312
## 5027493.939	8	0.0312
## 5027700.139	8	0.0312
## 5028001.198	8	0.0312
## 5028052.373	8	0.0312
## 5028497.517	8	0.0312
## 5029798.592	8	0.0312
## 5030010.832	8	0.0312
## 5030392.969	8	0.0312
## 5030395.399	8	0.0312
## 5030407.771	8	0.0312
## 5031428.409	8	0.0312
## 5031715.602	8	0.0312
## 5031800.365	8	0.0312
## 5031949.55	8	0.0312
## 5033500.668	8	0.0312
## 5036156.726	8	0.0312
## 5019553.595	7	0.0273
## 5019558.455	7	0.0273
## 5020505.314	7	0.0273
## 5021250.136	7	0.0273
## 5021830.132	7	0.0273
## 5021891.099	7	0.0273
## 5021892.719	7	0.0273
## 5021893.528	7	0.0273
## 5021941.284	7	0.0273
## 5023988.101	7	0.0273
## 5024097.102	7	0.0273

```
## 5025120.35          7    0.0273
## 5026442.987         7    0.0273
## 5027284.139         7    0.0273
## 5029693.962         7    0.0273
## 5029696.392         7    0.0273
## 5030436.753         7    0.0273
## 5030576.537         7    0.0273
## 5032033.368         7    0.0273
## 5032412.375         7    0.0273
## 5034108.188         7    0.0273
## 5036159.966         7    0.0273
## 5036980.185         7    0.0273
## 5014562.766         6    0.0234
## 5016626.28          6    0.0234
## 5016733.67          6    0.0234
## (Other)              24642 95.9991

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



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2005-Only 2005-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 4981549 5022783 5027959 5026583 5031480 5043051  
##  
## Summary as Factor Feature:  
##
```

```

## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5029081.557      35   0.1316
## 5023490.538      29   0.1090
## 5036471.581      27   0.1015
## 5023171.237      21   0.0789
## 5023465.505      20   0.0752
## 5021226.529      17   0.0639
## 5025699.176      14   0.0526
## 5031016.344      14   0.0526
## 5020502.884      13   0.0489
## 5021245.276      13   0.0489
## 5022585.715      13   0.0489
## 5023771.72       13   0.0489
## 5030666.156      13   0.0489
## 5021946.714      12   0.0451
## 5023725.106      12   0.0451
## 5025949.76       12   0.0451
## 5038666.858      12   0.0451
## 5020501.265      11   0.0413
## 5021945.904      11   0.0413
## 5023865.729      11   0.0413
## 5024097.721      11   0.0413
## 5024891.728      11   0.0413
## 5028091.147      11   0.0413
## 5030193.019      11   0.0413
## 5030577.347      11   0.0413
## 5032475.42       11   0.0413
## 5037978.362      11   0.0413
## 5017676.042      10   0.0376
## 5021944.284      10   0.0376
## 5022548.141      10   0.0376
## 5022729.28       10   0.0376
## 5024781.928      10   0.0376
## 5024842.363      10   0.0376
## 5025946.52       10   0.0376
## 5028092.767      10   0.0376
## 5030476.168      10   0.0376
## 5018426.494       9   0.0338
## 5021247.706       9   0.0338
## 5023385.668       9   0.0338
## 5023767.67       9   0.0338
## 5023770.91       9   0.0338
## 5025697.556       9   0.0338

```

## 5027494.749	9	0.0338
## 5027985.415	9	0.0338
## 5028603.147	9	0.0338
## 5030576.537	9	0.0338
## 5030669.396	9	0.0338
## 5032046.609	9	0.0338
## 5032821.564	9	0.0338
## 5012108.419	8	0.0301
## 5014046.426	8	0.0301
## 5016621.42	8	0.0301
## 5016730.431	8	0.0301
## 5018421.634	8	0.0301
## 5020455.07	8	0.0301
## 5020457.5	8	0.0301
## 5022587.335	8	0.0301
## 5023724.296	8	0.0301
## 5024096.102	8	0.0301
## 5024101.151	8	0.0301
## 5024229.794	8	0.0301
## 5024785.977	8	0.0301
## 5024807.11	8	0.0301
## 5026488.122	8	0.0301
## 5026489.742	8	0.0301
## 5026490.552	8	0.0301
## 5026627.946	8	0.0301
## 5026630.376	8	0.0301
## 5026850.328	8	0.0301
## 5026851.138	8	0.0301
## 5027012.323	8	0.0301
## 5027465.556	8	0.0301
## 5027491.51	8	0.0301
## 5027493.13	8	0.0301
## 5027986.225	8	0.0301
## 5028431.96	8	0.0301
## 5028501.566	8	0.0301
## 5029692.342	8	0.0301
## 5030188.16	8	0.0301
## 5030575.728	8	0.0301
## 5030918.41	8	0.0301
## 5031441.58	8	0.0301
## 5031554.841	8	0.0301
## 5031797.936	8	0.0301
## 5031802.795	8	0.0301
## 5032005.975	8	0.0301
## 5032006.785	8	0.0301
## 5032009.985	8	0.0301
## 5032268.561	8	0.0301
## 5032474.61	8	0.0301

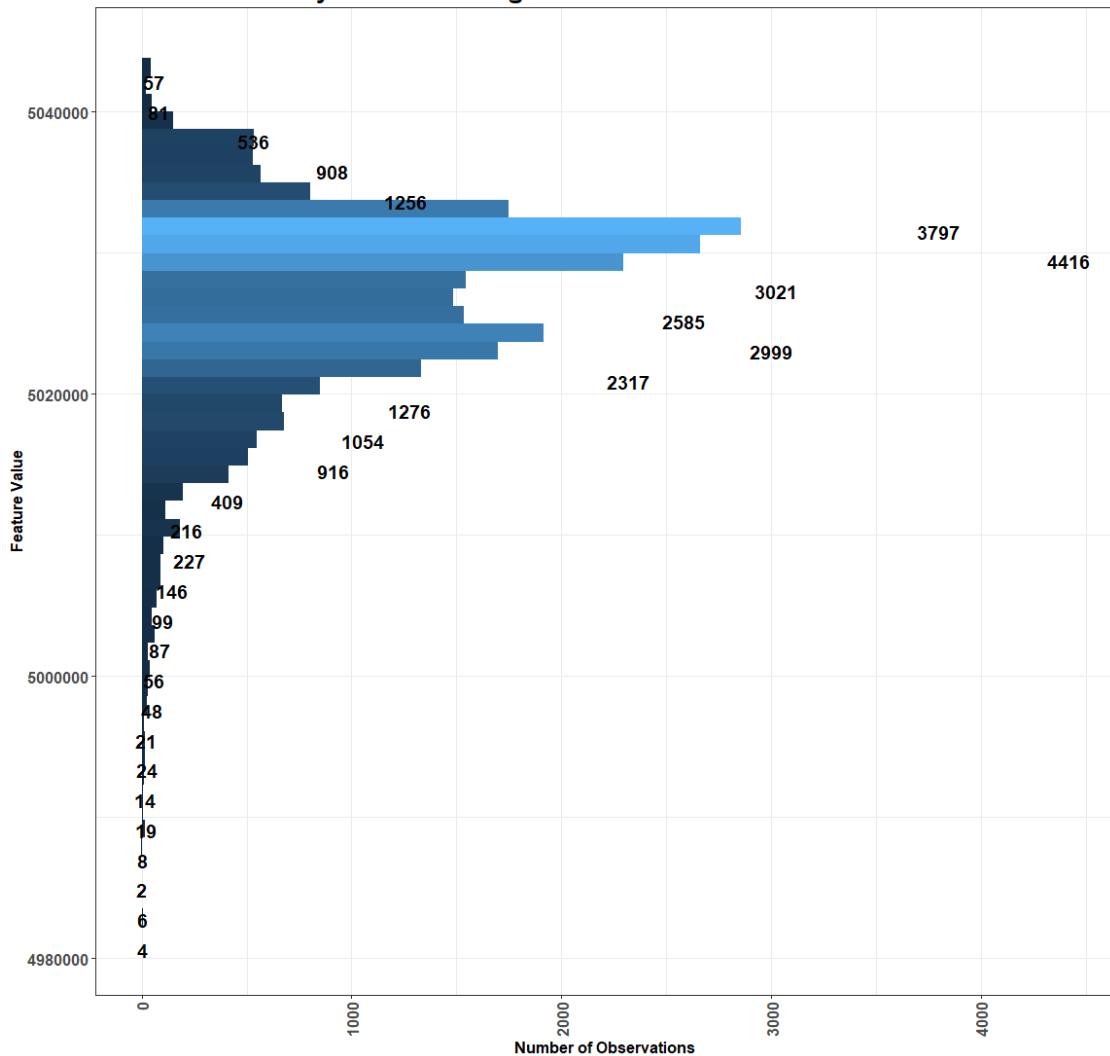
```

## 5032477.85          8    0.0301
## 5032692.611         8    0.0301
## 5032823.994         8    0.0301
## 5033491.759         8    0.0301
## 5008975.792         7    0.0263
## 5015277.65          7    0.0263
## 5016729.621          7    0.0263
## 5016733.67          7    0.0263
## 5017901.434          7    0.0263
## (Other)           25603  96.2338

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

```

**Plot of Feature:YCOORD
Data:All 2005-Only 2005-Homologated.csv**



```

## 
## -----
## CHECKING FEATURE:YCOORD

```

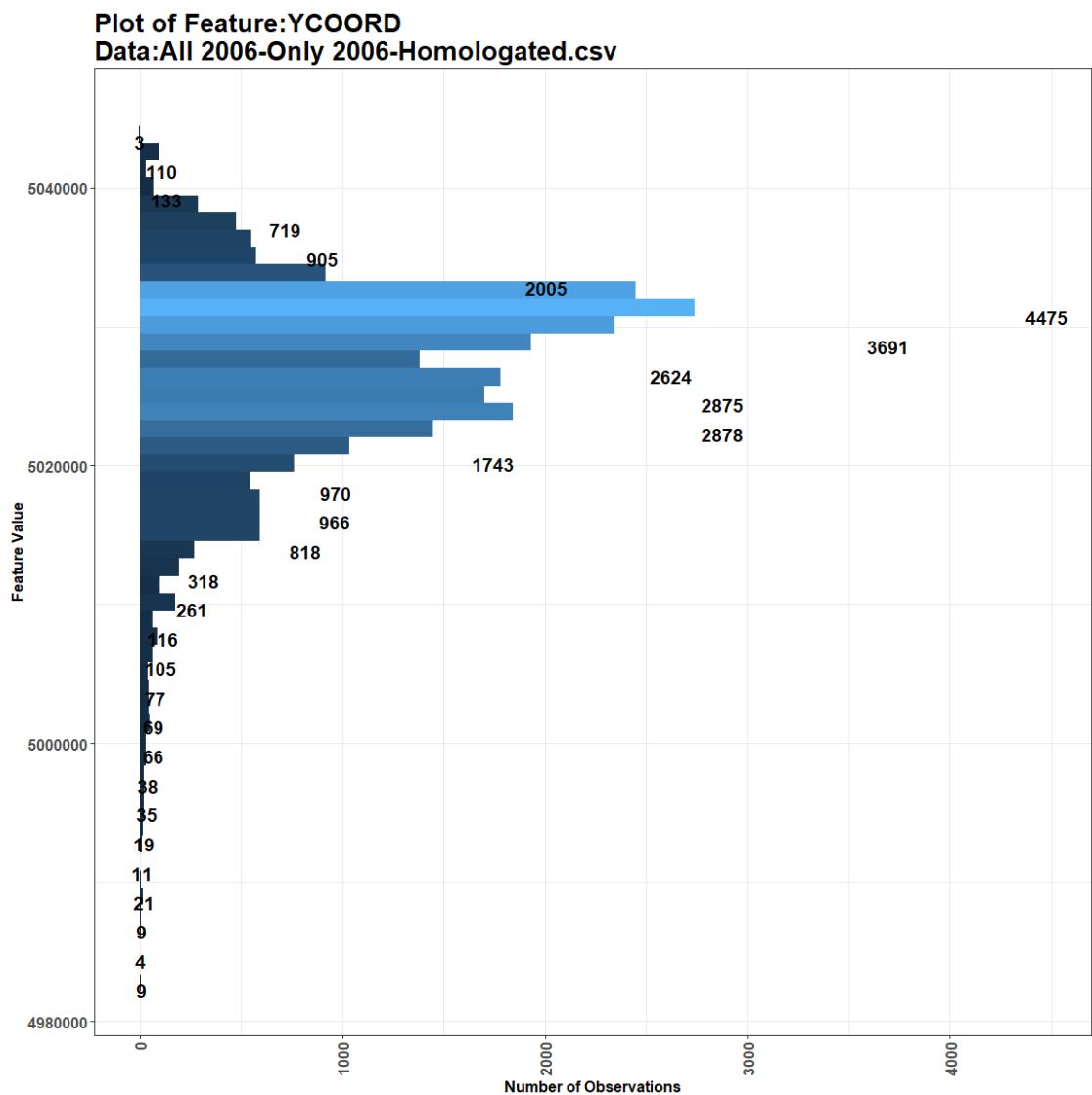
```

## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4982388 5022904 5027765 5026582 5031440 5043442
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5036471.581      43    0.1649
## 5031016.344      40    0.1534
## 5029081.557      32    0.1227
## 5023490.538      30    0.1151
## 5023465.505      19    0.0729
## 5026627.136      17    0.0652
## 5030188.97       16    0.0614
## 5023769.29       14    0.0537
## 5030625.352      14    0.0537
## 5031439.96       14    0.0537
## 5014783.213      13    0.0499
## 5031964.586      13    0.0499
## 5038667.668      12    0.0460
## 5021246.896      11    0.0422
## 5022733.329      11    0.0422
## 5023768.48       11    0.0422
## 5023770.1        11    0.0422
## 5030952.213      11    0.0422
## 5032753.987      11    0.0422
## 5032824.804      11    0.0422
## 5012108.419      10    0.0384
## 5017243.66       10    0.0384
## 5018845.684      10    0.0384
## 5021226.529      10    0.0384
## 5021945.094      10    0.0384
## 5023725.916      10    0.0384
## 5023868.159      10    0.0384
## 5026631.186      10    0.0384
## 5026852.757      10    0.0384
## 5028091.147      10    0.0384

```

## 5031439.15	10	0.0384
## 5036159.156	10	0.0384
## 5015277.65	9	0.0345
## 5021733.703	9	0.0345
## 5021890.289	9	0.0345
## 5021941.284	9	0.0345
## 5024097.721	9	0.0345
## 5024099.341	9	0.0345
## 5030006.782	9	0.0345
## 5031006.359	9	0.0345
## 5031691.404	9	0.0345
## 5032037.418	9	0.0345
## 5032823.994	9	0.0345
## 5034296.806	9	0.0345
## 5036159.966	9	0.0345
## 5038666.048	9	0.0345
## 5014785.642	8	0.0307
## 5017904.673	8	0.0307
## 5017905.483	8	0.0307
## 5018844.064	8	0.0307
## 5019065.47	8	0.0307
## 5020477.692	8	0.0307
## 5021891.099	8	0.0307
## 5021902.977	8	0.0307
## 5021943.713	8	0.0307
## 5022078.667	8	0.0307
## 5022304.577	8	0.0307
## 5022585.715	8	0.0307
## 5022588.145	8	0.0307
## 5022896.906	8	0.0307
## 5024005.595	8	0.0307
## 5024096.292	8	0.0307
## 5024227.364	8	0.0307
## 5024317.683	8	0.0307
## 5024781.118	8	0.0307
## 5025405.738	8	0.0307
## 5026489.742	8	0.0307
## 5026629.566	8	0.0307
## 5026630.376	8	0.0307
## 5028090.337	8	0.0307
## 5028310.837	8	0.0307
## 5028499.137	8	0.0307
## 5029454.779	8	0.0307
## 5030391.349	8	0.0307
## 5030558.785	8	0.0307
## 5030577.347	8	0.0307
## 5031800.365	8	0.0307
## 5032009.176	8	0.0307

```
## 5032472.99          8    0.0307
## 5032695.041         8    0.0307
## 5032823.184         8    0.0307
## 5037982.412         8    0.0307
## 5038348.177         8    0.0307
## 5014562.766         7    0.0268
## 5016194.849         7    0.0268
## 5017676.042         7    0.0268
## 5018179.751         7    0.0268
## 5020456.69          7    0.0268
## 5020504.504         7    0.0268
## 5020506.124         7    0.0268
## 5021245.276         7    0.0268
## 5021246.086         7    0.0268
## 5021250.136         7    0.0268
## 5021731.273         7    0.0268
## 5021942.904         7    0.0268
## 5021944.284         7    0.0268
## 5022082.717         7    0.0268
## 5022270.895         7    0.0268
## 5022581.666         7    0.0268
## (Other)              25065 96.1339
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 4981669 5022752 5027678 5026521 5031440 5043416  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5023725.916      18    0.0649
## 5021946.714      15    0.0540
## 5024098.531      13    0.0468
## 5025948.14       12    0.0432
## 5026628.756      12    0.0432
## 5031610.406      12    0.0432
## 5032044.989      12    0.0432
## 5032416.424      12    0.0432
## 5019556.835      11    0.0396
## 5021246.086      11    0.0396
## 5021246.896      11    0.0396
## 5021891.909      11    0.0396
## 5023772.53       11    0.0396
## 5023865.729      11    0.0396
## 5024093.672      11    0.0396
## 5033200.6        11    0.0396
## 5016732.861      10    0.0360
## 5016735.29       10    0.0360
## 5020485.703      10    0.0360
## 5021826.082      10    0.0360
## 5021893.528      10    0.0360
## 5022895.286      10    0.0360
## 5023774.15       10    0.0360
## 5024839.933      10    0.0360
## 5025045.303      10    0.0360
## 5026626.326      10    0.0360
## 5026852.757      10    0.0360
## 5030950.593      10    0.0360
## 5032475.42       10    0.0360
## 5033067.617      10    0.0360
## 5036162.396      10    0.0360
## 5016622.23       9     0.0324
## 5018034.866      9     0.0324
## 5021732.893      9     0.0324
## 5021945.904      9     0.0324
## 5023727.536      9     0.0324
## 5023773.34       9     0.0324
## 5025948.95       9     0.0324
## 5026629.566      9     0.0324
## 5029480.781      9     0.0324
## 5030005.972      9     0.0324
## 5030409.39       9     0.0324
```

## 5031118.35	9	0.0324
## 5031322.409	9	0.0324
## 5031690.594	9	0.0324
## 5031723.798	9	0.0324
## 5031953.6	9	0.0324
## 5032691.801	9	0.0324
## 5008977.411	8	0.0288
## 5016731.241	8	0.0288
## 5020476.072	8	0.0288
## 5021247.706	8	0.0288
## 5021250.136	8	0.0288
## 5021732.083	8	0.0288
## 5021896.768	8	0.0288
## 5021947.524	8	0.0288
## 5021949.953	8	0.0288
## 5022751.331	8	0.0288
## 5022752.141	8	0.0288
## 5022899.335	8	0.0288
## 5023620.345	8	0.0288
## 5023725.106	8	0.0288
## 5024096.911	8	0.0288
## 5024101.151	8	0.0288
## 5024510.361	8	0.0288
## 5024890.918	8	0.0288
## 5025118.73	8	0.0288
## 5025693.506	8	0.0288
## 5026627.946	8	0.0288
## 5027703.379	8	0.0288
## 5028049.943	8	0.0288
## 5029081.963	8	0.0288
## 5029424.956	8	0.0288
## 5029425.766	8	0.0288
## 5030009.212	8	0.0288
## 5030010.022	8	0.0288
## 5030084.399	8	0.0288
## 5030627.782	8	0.0288
## 5030948.973	8	0.0288
## 5031319.979	8	0.0288
## 5031425.169	8	0.0288
## 5031428.409	8	0.0288
## 5031688.974	8	0.0288
## 5031950.36	8	0.0288
## 5032471.37	8	0.0288
## 5032477.04	8	0.0288
## 5032823.994	8	0.0288
## 5032825.614	8	0.0288
## 5032887.98	8	0.0288
## 5033199.79	8	0.0288

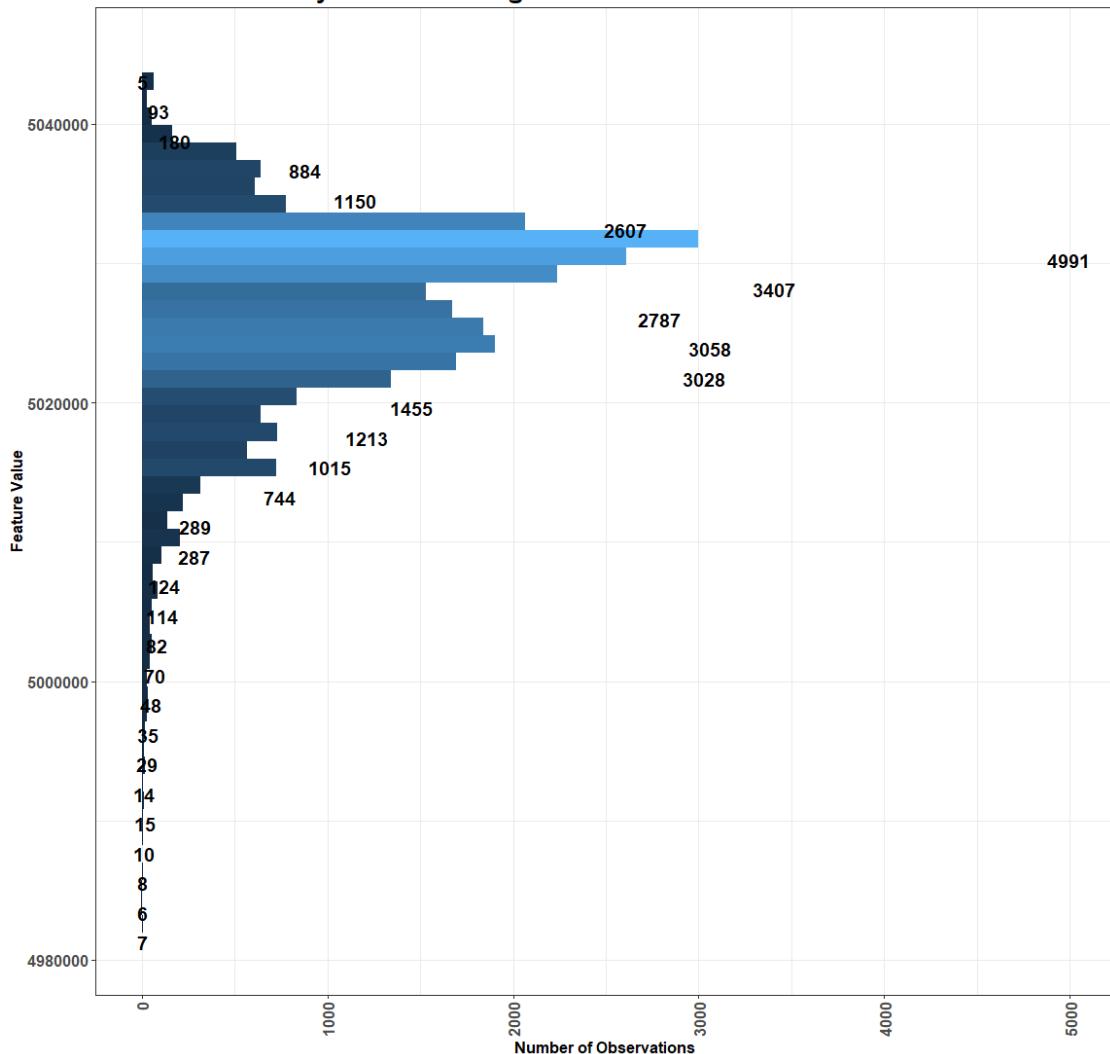
```

## 5034557.801      8    0.0288
## 5036160.776      8    0.0288
## 5037998.613      8    0.0288
## 5018038.106      7    0.0252
## 5020502.075      7    0.0252
## 5021245.276      7    0.0252
## 5021248.516      7    0.0252
## 5021250.946      7    0.0252
## 5021827.702      7    0.0252
## (Other)          26856 96.7609

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

```

Plot of Feature:YCOORD
Data:All 2007-Only 2007-Homologated.csv



```

##
## -----
## CHECKING FEATURE:YCOORD

```

```

## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4982659 5022554 5027701 5026522 5031444 5043472
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5030580.587      17    0.0596
## 5021891.909      16    0.0561
## 5026852.757      16    0.0561
## 5030592.969      16    0.0561
## 5021247.706      14    0.0491
## 5032691.801      14    0.0491
## 5033198.98       14    0.0491
## 5026625.516      13    0.0456
## 5021948.334      12    0.0421
## 5024474.347      12    0.0421
## 5026853.377      12    0.0421
## 5028499.947      12    0.0421
## 5030192.209      12    0.0421
## 5036161.586      12    0.0421
## 5020502.884      11    0.0386
## 5021947.524      11    0.0386
## 5023769.29       11    0.0386
## 5023774.15       11    0.0386
## 5030003.542      11    0.0386
## 5032476.23       11    0.0386
## 5020478.502      10    0.0351
## 5021945.904      10    0.0351
## 5026488.122      10    0.0351
## 5026853.567      10    0.0351
## 5028051.563      10    0.0351
## 5030081.969      10    0.0351
## 5031007.979      10    0.0351
## 5031955.22       10    0.0351
## 5033200.6        10    0.0351
## 5016627.9        9     0.0316

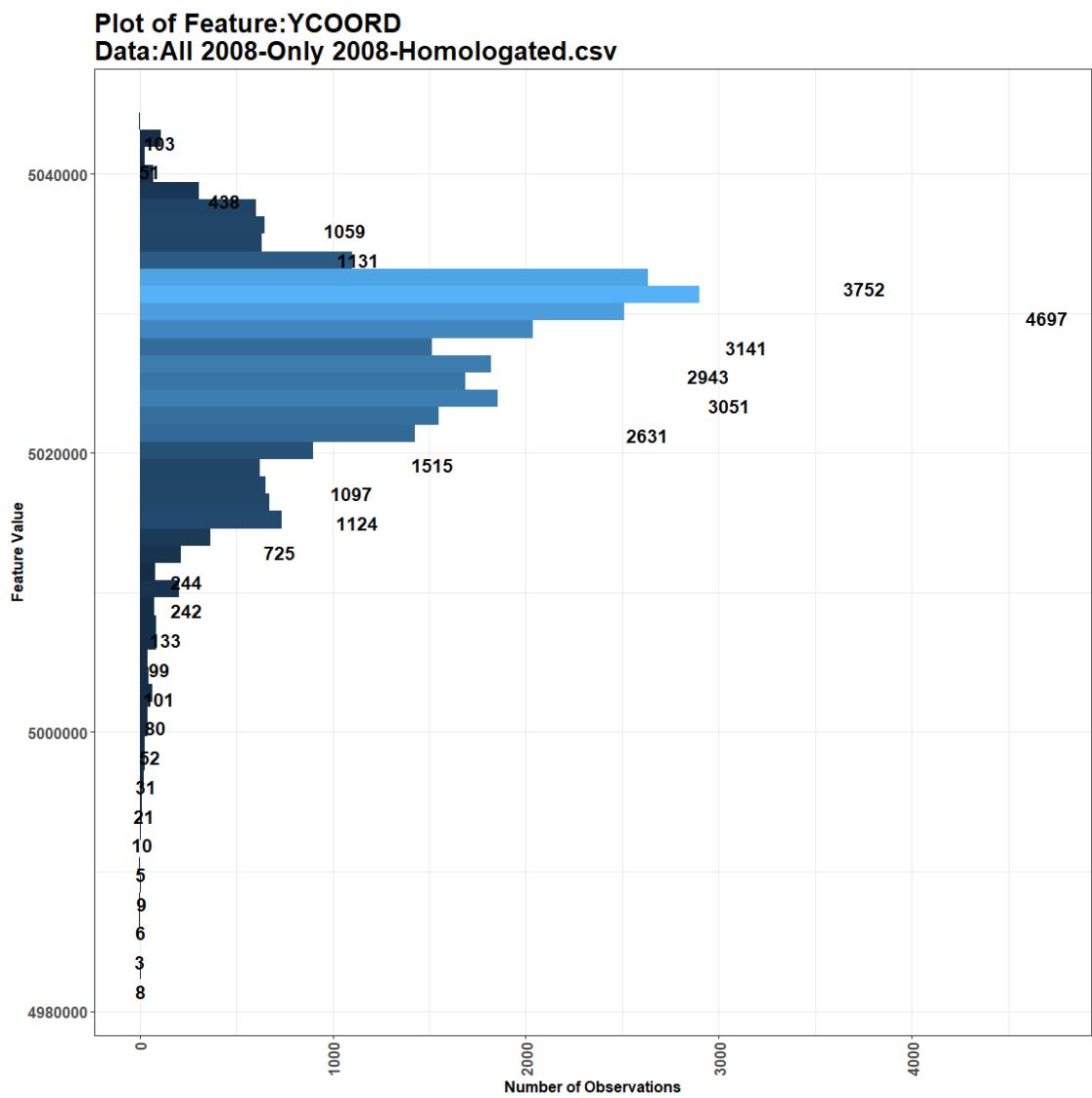
```

## 5019554.405	9	0.0316
## 5021246.086	9	0.0316
## 5021248.516	9	0.0316
## 5021249.326	9	0.0316
## 5021253.376	9	0.0316
## 5022081.097	9	0.0316
## 5023989.721	9	0.0316
## 5024471.108	9	0.0316
## 5024634.553	9	0.0316
## 5029790.401	9	0.0316
## 5031607.977	9	0.0316
## 5031801.985	9	0.0316
## 5032970.618	9	0.0316
## 5014787.262	8	0.0281
## 5017678.471	8	0.0281
## 5020505.314	8	0.0281
## 5021943.713	8	0.0281
## 5021951.573	8	0.0281
## 5023399.914	8	0.0281
## 5023402.534	8	0.0281
## 5023772.53	8	0.0281
## 5023773.34	8	0.0281
## 5025404.928	8	0.0281
## 5025406.548	8	0.0281
## 5026630.376	8	0.0281
## 5026855.187	8	0.0281
## 5026855.997	8	0.0281
## 5027467.986	8	0.0281
## 5027704.189	8	0.0281
## 5028053.183	8	0.0281
## 5028092.767	8	0.0281
## 5028499.137	8	0.0281
## 5028502.376	8	0.0281
## 5028503.996	8	0.0281
## 5029482.401	8	0.0281
## 5030009.212	8	0.0281
## 5030406.961	8	0.0281
## 5030581.397	8	0.0281
## 5030583.017	8	0.0281
## 5030953.833	8	0.0281
## 5031444.01	8	0.0281
## 5031688.974	8	0.0281
## 5031951.17	8	0.0281
## 5031954.41	8	0.0281
## 5031957.649	8	0.0281
## 5032113.605	8	0.0281
## 5032475.42	8	0.0281
## 5032823.184	8	0.0281



```
## 5032824.804      8    0.0281
## 5033499.858      8    0.0281
## 5037981.602      8    0.0281
## 5012594.811      7    0.0246
## 5014783.213      7    0.0246
## 5014855.429      7    0.0246
## 5018426.494      7    0.0246
## 5018845.684      7    0.0246
## 5019567.494      7    0.0246
## 5020504.504      7    0.0246
## 5021251.756      7    0.0246
## 5021252.566      7    0.0246
## 5021895.148      7    0.0246
## 5021949.144      7    0.0246
## 5022155.094      7    0.0246
## 5022188.527      7    0.0246
## 5022586.525      7    0.0246
## 5022738.189      7    0.0246
## 5023865.729      7    0.0246
## 5023868.159      7    0.0246
## 5025372.544      7    0.0246
## (Other)          27598  96.8283

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



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2009-Only 2009-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median     Mean 3rd Qu.    Max.    NA's  
##       NA       NA       NA      NaN       NA       NA 28453  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 1
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## ----- -----
## 28453 100
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

Plot of Feature:YCOORD
Data:All 2009-Only 2009-Homologated.csv

Feature Value

Number of Observations

```
##
## -----
## CHECKING FEATURE:YCOORD
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
```

```

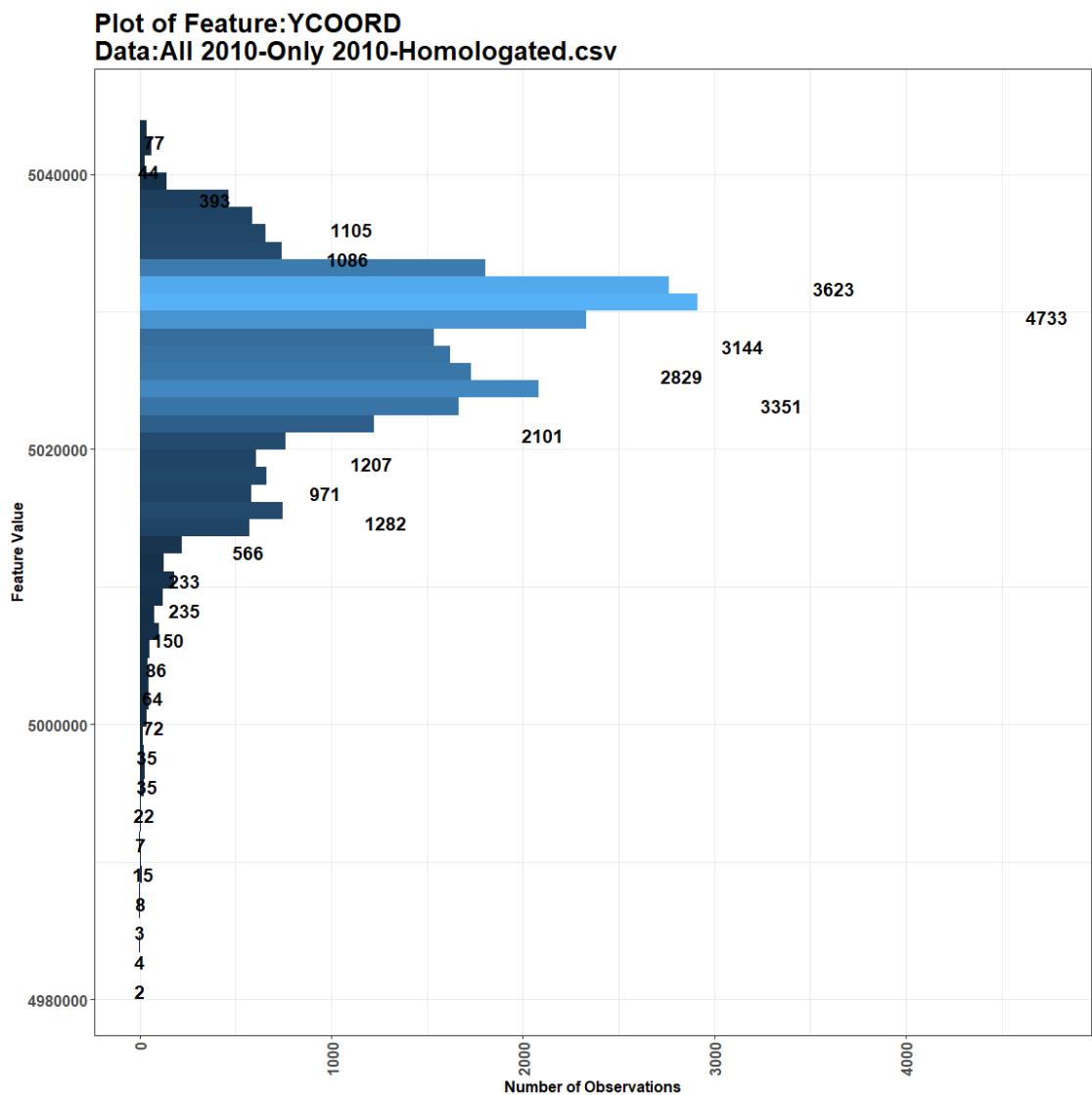
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4981674 5022951 5027841 5026560 5031445 5043438
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5032477.85      22    0.0800
## 5023774.15      19    0.0691
## 5021949.953     18    0.0655
## 5024100.961     18    0.0655
## 5029699.631     18    0.0655
## 5024102.581     17    0.0619
## 5033499.858     17    0.0619
## 5014789.692     16    0.0582
## 5030584.637     16    0.0582
## 5023729.155     15    0.0546
## 5032478.66      15    0.0546
## 5036164.016     15    0.0546
## 5036164.826     15    0.0546
## 5016738.53      14    0.0509
## 5021947.524     14    0.0509
## 5028504.806     14    0.0509
## 5036165.636     14    0.0509
## 5016736.91      13    0.0473
## 5018186.23      13    0.0473
## 5022589.765     13    0.0473
## 5022590.575     13    0.0473
## 5023775.77      13    0.0473
## 5023868.969     13    0.0473
## 5026493.792     13    0.0473
## 5027988.655     13    0.0473
## 5033203.84      13    0.0473
## 5038670.098     13    0.0473
## 5039290.838     13    0.0473
## 5025428.979     12    0.0437
## 5026858.427     12    0.0437
## 5027499.609     12    0.0437
## 5029086.012     12    0.0437
## 5030010.832     12    0.0437

```

## 5030481.027	12	0.0437
## 5031807.655	12	0.0437
## 5031956.839	12	0.0437
## 5034112.238	12	0.0437
## 5008980.651	11	0.0400
## 5016627.9	11	0.0400
## 5016629.519	11	0.0400
## 5020508.554	11	0.0400
## 5023731.585	11	0.0400
## 5024101.771	11	0.0400
## 5029428.196	11	0.0400
## 5030582.207	11	0.0400
## 5030637.022	11	0.0400
## 5030669.396	11	0.0400
## 5031693.834	11	0.0400
## 5031957.649	11	0.0400
## 5037984.842	11	0.0400
## 5018503.731	10	0.0364
## 5021250.946	10	0.0364
## 5021897.578	10	0.0364
## 5021952.383	10	0.0364
## 5023730.775	10	0.0364
## 5024101.961	10	0.0364
## 5024786.787	10	0.0364
## 5026494.602	10	0.0364
## 5027497.989	10	0.0364
## 5028053.183	10	0.0364
## 5028503.996	10	0.0364
## 5029429.816	10	0.0364
## 5029697.202	10	0.0364
## 5030481.837	10	0.0364
## 5031324.028	10	0.0364
## 5031806.845	10	0.0364
## 5032014.845	10	0.0364
## 5032476.23	10	0.0364
## 5033822.05	10	0.0364
## 5036476.036	10	0.0364
## 5037984.032	10	0.0364
## 5018156.917	9	0.0327
## 5020480.122	9	0.0327
## 5023470.77	9	0.0327
## 5024414.791	9	0.0327
## 5024843.983	9	0.0327
## 5025329.16	9	0.0327
## 5025952.19	9	0.0327
## 5025953	9	0.0327
## 5028505.616	9	0.0327
## 5028606.186	9	0.0327

```
## 5030397.829      9    0.0327
## 5030671.015      9    0.0327
## 5031554.031      9    0.0327
## 5032419.664      9    0.0327
## 5033497.429      9    0.0327
## 5033498.239      9    0.0327
## 5034301.666      9    0.0327
## 5010775.665      8    0.0291
## 5014363.271      8    0.0291
## 5016627.09       8    0.0291
## 5017908.723      8    0.0291
## 5019016.54       8    0.0291
## 5021092.55       8    0.0291
## 5021895.958      8    0.0291
## 5021946.953      8    0.0291
## 5021949.144      8    0.0291
## 5021950.763      8    0.0291
## 5022549.761      8    0.0291
## (Other)           26361 95.9175

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



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2011-Only 2011-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 4981012 5022712 5027589 5026433 5031368 5043448  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5036474.416      23    0.0824
## 5014788.072      20    0.0717
## 5021950.763      18    0.0645
## 5033497.429      18    0.0645
## 5025952.19       17    0.0609
## 5036471.986      17    0.0609
## 5021947.524      16    0.0573
## 5035571.209      16    0.0573
## 5016737.72       15    0.0538
## 5021949.953      15    0.0538
## 5030583.017      15    0.0538
## 5036476.036      15    0.0538
## 5021949.144      14    0.0502
## 5024895.778      14    0.0502
## 5036472.796      14    0.0502
## 5036473.606      14    0.0502
## 5036475.226      14    0.0502
## 5023772.53       13    0.0466
## 5029458.018       13    0.0466
## 5030581.397       13    0.0466
## 5033499.858       13    0.0466
## 5016626.28        12    0.0430
## 5021894.338       12    0.0430
## 5021948.334       12    0.0430
## 5024785.977       12    0.0430
## 5030192.209       12    0.0430
## 5031806.845       12    0.0430
## 5031954.41        12    0.0430
## 5031956.03        12    0.0430
## 5032477.04        12    0.0430
## 5036477.656       12    0.0430
## 5021892.719       11    0.0394
## 5022548.951       11    0.0394
## 5025951.38        11    0.0394
## 5026224.547       11    0.0394
## 5026628.756       11    0.0394
## 5027769.195       11    0.0394
## 5030006.782       11    0.0394
## 5030010.022       11    0.0394
## 5030629.402       11    0.0394
## 5031806.035       11    0.0394
## 5036470.366       11    0.0394
```

## 5014789.692	10	0.0358
## 5021737.753	10	0.0358
## 5024100.961	10	0.0358
## 5025699.176	10	0.0358
## 5026032.178	10	0.0358
## 5026225.357	10	0.0358
## 5028053.993	10	0.0358
## 5028095.197	10	0.0358
## 5029087.632	10	0.0358
## 5029483.211	10	0.0358
## 5030191.399	10	0.0358
## 5030597.018	10	0.0358
## 5031443.2	10	0.0358
## 5032232.036	10	0.0358
## 5036163.206	10	0.0358
## 5036471.176	10	0.0358
## 5036476.846	10	0.0358
## 5016733.67	9	0.0323
## 5016734.48	9	0.0323
## 5021250.136	9	0.0323
## 5021893.528	9	0.0323
## 5022952.95	9	0.0323
## 5023310.335	9	0.0323
## 5023311.145	9	0.0323
## 5023404.154	9	0.0323
## 5024101.961	9	0.0323
## 5024509.551	9	0.0323
## 5024512.791	9	0.0323
## 5027989.465	9	0.0323
## 5028503.186	9	0.0323
## 5028504.806	9	0.0323
## 5029697.202	9	0.0323
## 5030578.967	9	0.0323
## 5031007.979	9	0.0323
## 5032416.424	9	0.0323
## 5033819.62	9	0.0323
## 5015388.28	8	0.0287
## 5016627.9	8	0.0287
## 5016895.106	8	0.0287
## 5017681.711	8	0.0287
## 5017848.118	8	0.0287
## 5018185.42	8	0.0287
## 5020506.124	8	0.0287
## 5021246.896	8	0.0287
## 5021736.133	8	0.0287
## 5021830.942	8	0.0287
## 5021895.148	8	0.0287
## 5022086.767	8	0.0287

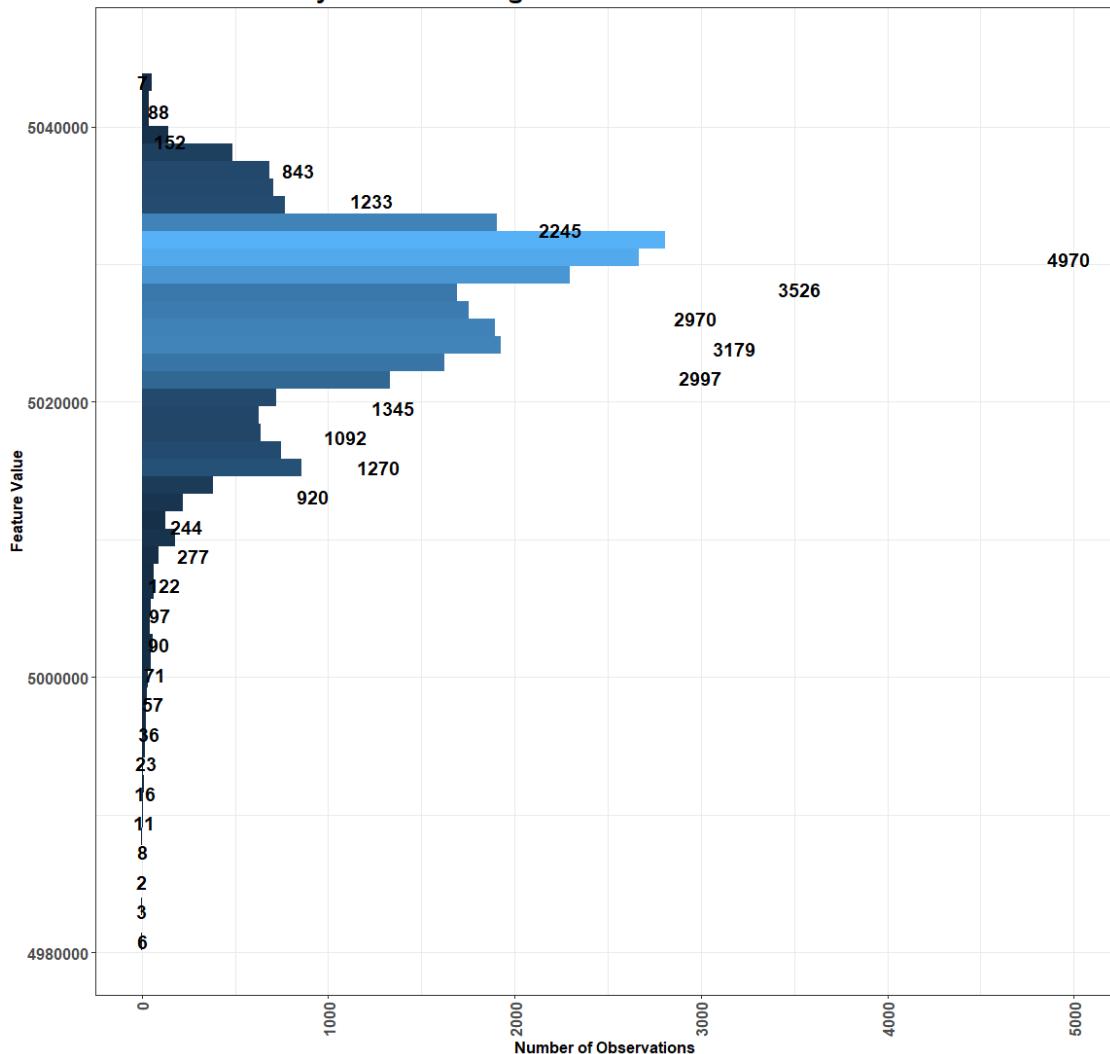
```

## 5022588.145      8    0.0287
## 5022588.955      8    0.0287
## 5022590.575      8    0.0287
## 5023771.72       8    0.0287
## 5024100.151      8    0.0287
## 5024101.771      8    0.0287
## 5024102.581      8    0.0287
## 5024445.974      8    0.0287
## 5024511.981      8    0.0287
## (Other)          26823 96.1398

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

```

Plot of Feature:YCOORD
Data:All 2011-Only 2011-Homologated.csv



```

##
## -----
## CHECKING FEATURE:YCOORD

```

```

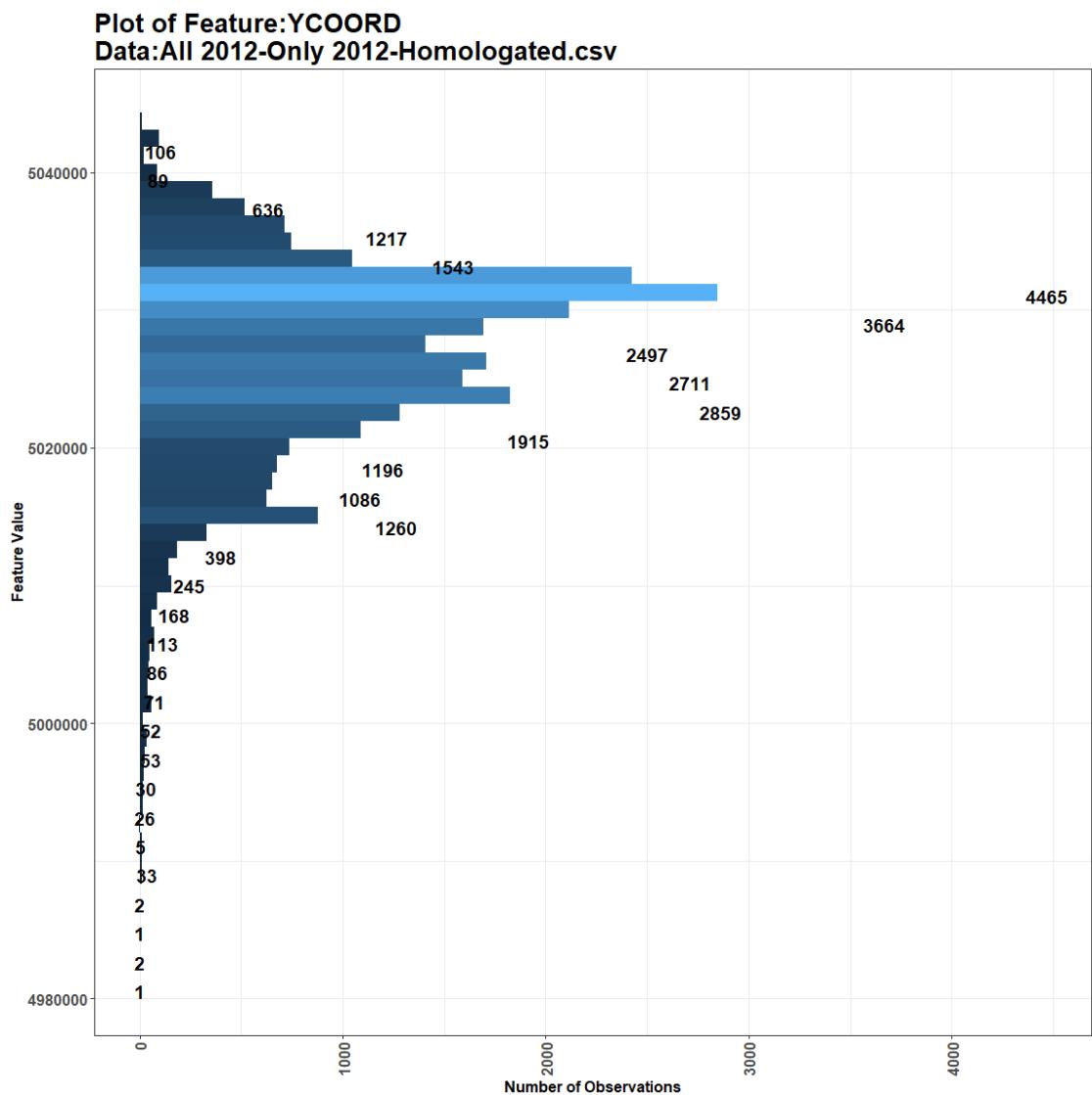
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4982408 5022475 5027693 5026462 5031570 5043416
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5036472.796      26   0.0980
## 5036471.986      23   0.0867
## 5036471.176      18   0.0678
## 5016735.29       17   0.0641
## 5021247.706      17   0.0641
## 5035571.209      16   0.0603
## 5026631.186      15   0.0565
## 5031011.218      14   0.0528
## 5018424.874      13   0.0490
## 5021943.713      13   0.0490
## 5024100.151      13   0.0490
## 5024946.973      13   0.0490
## 5028499.947      13   0.0490
## 5029697.202      13   0.0490
## 5030005.972      13   0.0490
## 5036470.366      13   0.0490
## 5014788.072      12   0.0452
## 5017677.662      12   0.0452
## 5021895.148      12   0.0452
## 5021949.144      12   0.0452
## 5024413.981      12   0.0452
## 5028788.184      12   0.0452
## 5030582.207      12   0.0452
## 5036476.846      12   0.0452
## 5038670.098      12   0.0452
## 5020476.072      11   0.0415
## 5021526.323      11   0.0415
## 5023770.1        11   0.0415
## 5024511.171      11   0.0415
## 5031553.221      11   0.0415

```

## 5016734.48	10	0.0377
## 5019169.305	10	0.0377
## 5019557.645	10	0.0377
## 5020479.312	10	0.0377
## 5021895.958	10	0.0377
## 5021946.714	10	0.0377
## 5021948.334	10	0.0377
## 5023726.726	10	0.0377
## 5023774.15	10	0.0377
## 5024904.919	10	0.0377
## 5025697.556	10	0.0377
## 5026206.004	10	0.0377
## 5027493.939	10	0.0377
## 5028053.183	10	0.0377
## 5031956.03	10	0.0377
## 5032412.375	10	0.0377
## 5032475.42	10	0.0377
## 5033198.98	10	0.0377
## 5034113.048	10	0.0377
## 5036163.206	10	0.0377
## 5036473.606	10	0.0377
## 5014787.262	9	0.0339
## 5015118.625	9	0.0339
## 5021525.513	9	0.0339
## 5022951.33	9	0.0339
## 5023467.53	9	0.0339
## 5025046.162	9	0.0339
## 5025329.16	9	0.0339
## 5025665.362	9	0.0339
## 5025949.76	9	0.0339
## 5026225.357	9	0.0339
## 5026631.995	9	0.0339
## 5030578.967	9	0.0339
## 5030592.969	9	0.0339
## 5032771.759	9	0.0339
## 5032890.41	9	0.0339
## 5014783.213	8	0.0302
## 5015279.27	8	0.0302
## 5017907.103	8	0.0302
## 5018185.42	8	0.0302
## 5020422.906	8	0.0302
## 5020455.88	8	0.0302
## 5020506.124	8	0.0302
## 5021246.896	8	0.0302
## 5021623.142	8	0.0302
## 5022588.145	8	0.0302
## 5023400.724	8	0.0302
## 5023729.155	8	0.0302

```
## 5024097.102          8    0.0302
## 5024098.531          8    0.0302
## 5024099.341          8    0.0302
## 5024101.771          8    0.0302
## 5024410.742          8    0.0302
## 5024508.741          8    0.0302
## 5024811.97            8    0.0302
## 5024886.868          8    0.0302
## 5024893.348          8    0.0302
## 5024894.158          8    0.0302
## 5025699.176          8    0.0302
## 5025699.986          8    0.0302
## 5025952.19            8    0.0302
## 5026031.368          8    0.0302
## 5026649.377          8    0.0302
## 5027704.999          8    0.0302
## 5027987.035          8    0.0302
## 5029083.583          8    0.0302
## 5029336.777          8    0.0302
## 5030010.022          8    0.0302
## 5030010.832          8    0.0302
## (Other)                25508 96.1478

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



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2013-Only 2013-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 4981259 5022403 5027652 5026421 5031319 5043416  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5036471.986      24    0.0858
## 5021246.896      17    0.0608
## 5021942.904      17    0.0608
## 5020502.884      16    0.0572
## 5025325.92       16    0.0572
## 5031425.979      16    0.0572
## 5036477.656      16    0.0572
## 5021891.099      15    0.0536
## 5021894.338      15    0.0536
## 5031439.96       15    0.0536
## 5021945.094      14    0.0501
## 5036474.416      14    0.0501
## 5027493.939      13    0.0465
## 5030558.785      13    0.0465
## 5031335.96       13    0.0465
## 5032475.42       13    0.0465
## 5033198.98       13    0.0465
## 5017242.85       12    0.0429
## 5021247.706      12    0.0429
## 5021892.719      12    0.0429
## 5023725.916      12    0.0429
## 5023865.729      12    0.0429
## 5025404.118      12    0.0429
## 5027493.13       12    0.0429
## 5030005.972      12    0.0429
## 5033818          12    0.0429
## 5036471.176      12    0.0429
## 5014786.452      11    0.0393
## 5018183.8        11    0.0393
## 5021250.136      11    0.0393
## 5021946.714      11    0.0393
## 5024890.918      11    0.0393
## 5029081.963      11    0.0393
## 5029082.773      11    0.0393
## 5030458.356      11    0.0393
## 5036473.606      11    0.0393
## 5016734.48       10    0.0358
## 5020455.88       10    0.0358
## 5021248.516      10    0.0358
## 5021250.946      10    0.0358
## 5021945.904      10    0.0358
## 5021947.524      10    0.0358
```

## 5022299.718	10	0.0358
## 5023509.925	10	0.0358
## 5023863.299	10	0.0358
## 5024228.174	10	0.0358
## 5025874.753	10	0.0358
## 5026033.798	10	0.0358
## 5026630.376	10	0.0358
## 5028499.137	10	0.0358
## 5030478.597	10	0.0358
## 5030579.777	10	0.0358
## 5030632.972	10	0.0358
## 5032274.181	10	0.0358
## 5032476.23	10	0.0358
## 5033498.239	10	0.0358
## 5033820.43	10	0.0358
## 5036472.796	10	0.0358
## 5020477.692	9	0.0322
## 5020506.124	9	0.0322
## 5021732.083	9	0.0322
## 5022732.519	9	0.0322
## 5027765.956	9	0.0322
## 5030005.162	9	0.0322
## 5030395.399	9	0.0322
## 5030593.779	9	0.0322
## 5031691.404	9	0.0322
## 5031745.409	9	0.0322
## 5031801.175	9	0.0322
## 5032381.041	9	0.0322
## 5033496.619	9	0.0322
## 5036160.776	9	0.0322
## 5036162.396	9	0.0322
## 5014880.022	8	0.0286
## 5017243.66	8	0.0286
## 5017506.865	8	0.0286
## 5017904.673	8	0.0286
## 5018184.61	8	0.0286
## 5019555.215	8	0.0286
## 5020469.561	8	0.0286
## 5020476.072	8	0.0286
## 5020503.694	8	0.0286
## 5020504.504	8	0.0286
## 5021251.756	8	0.0286
## 5021252.566	8	0.0286
## 5021946.143	8	0.0286
## 5021948.334	8	0.0286
## 5022588.145	8	0.0286
## 5023492.563	8	0.0286
## 5023725.106	8	0.0286

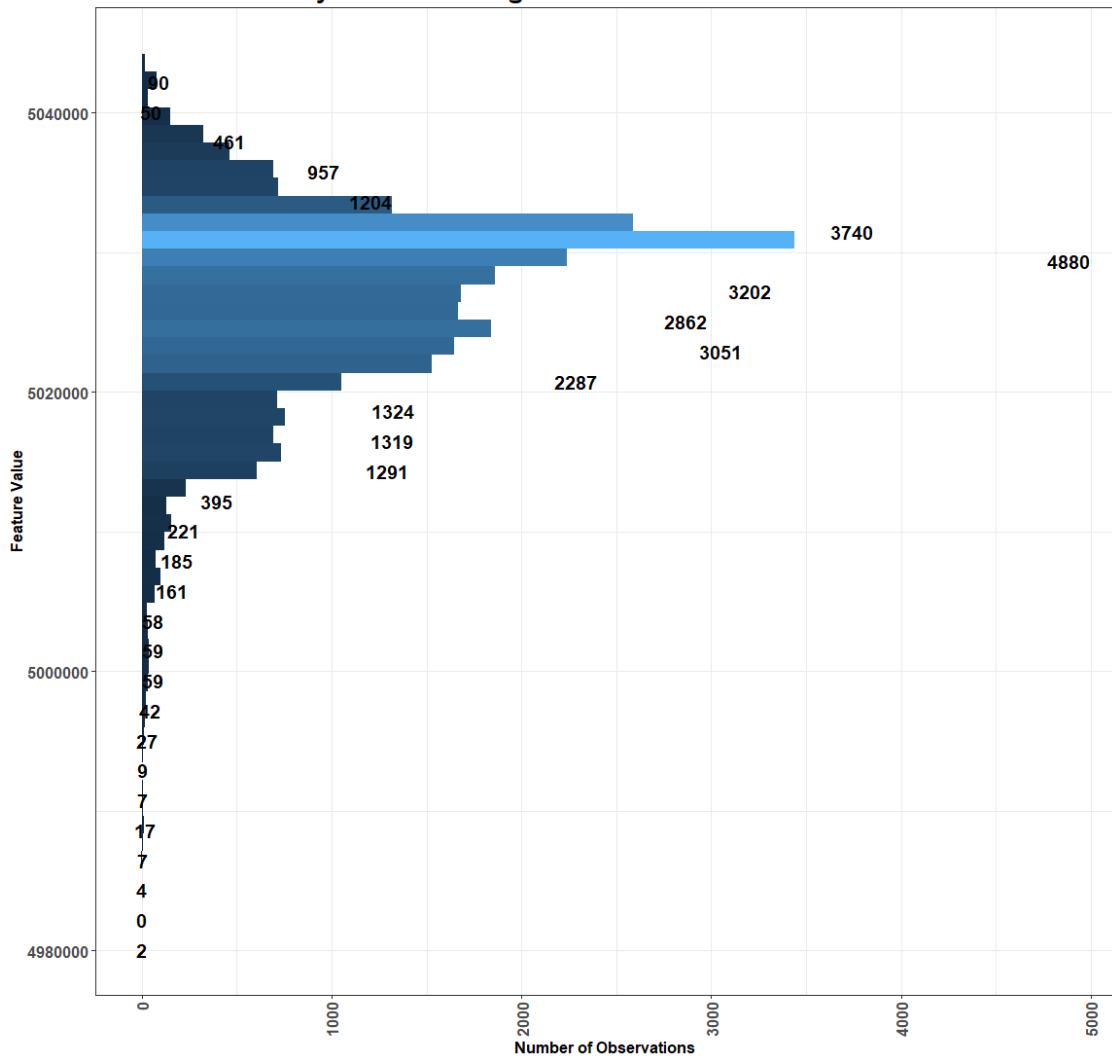
```

## 5023727.536      8    0.0286
## 5023772.53      8    0.0286
## 5023773.34      8    0.0286
## 5023774.96      8    0.0286
## 5024097.721     8    0.0286
## 5024409.932     8    0.0286
## 5024891.728     8    0.0286
## 5025046.113     8    0.0286
## 5025948.95      8    0.0286
## (Other)          26929 96.2747

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

```

Plot of Feature:YCOORD
Data:All 2013-Only 2013-Homologated.csv



```

##
## -----
## CHECKING FEATURE:YCOORD

```

```

## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:348
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
##     0 5022151 5027606 4962342 5031370 5043363
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 0 348 1.2751
## 5021890.555 28 0.1026
## 5036471.581 28 0.1026
## 5036469.685 27 0.0989
## 5036470.633 24 0.0879
## 5014783.469 22 0.0806
## 5018181.775 19 0.0696
## 5021244.593 19 0.0696
## 5021944.551 18 0.0660
## 5021945.499 18 0.0660
## 5014784.417 17 0.0623
## 5023769.557 17 0.0623
## 5033486.186 17 0.0623
## 5031951.575 16 0.0586
## 5020476.467 15 0.0550
## 5020502.479 15 0.0550
## 5021941.55 15 0.0550
## 5023724.563 15 0.0550
## 5027763.592 15 0.0550
## 5021246.489 14 0.0513
## 5030005.567 14 0.0513
## 5031426.166 14 0.0513
## 5036159.561 14 0.0513
## 5020500.583 13 0.0476
## 5022748.496 13 0.0476
## 5024890.513 13 0.0476
## 5026851.542 13 0.0476
## 5029454.038 13 0.0476
## 5033065.592 13 0.0476
## 5036901.216 13 0.0476

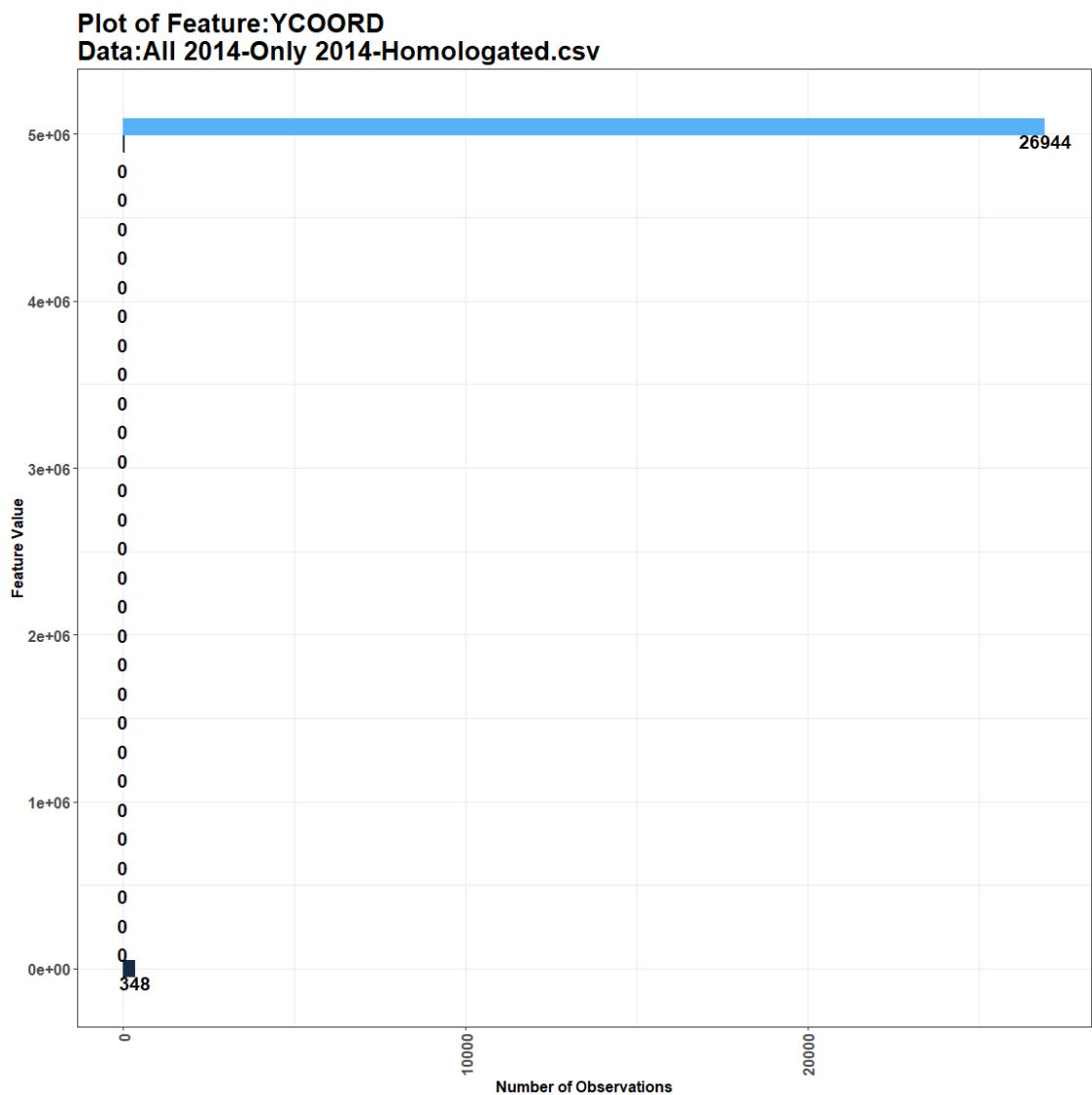
```

## 5021732.494	12	0.0440
## 5021891.503	12	0.0440
## 5021942.498	12	0.0440
## 5023772.4	12	0.0440
## 5025946.787	12	0.0440
## 5026408.425	12	0.0440
## 5030592.553	12	0.0440
## 5031798.27	12	0.0440
## 5036472.529	12	0.0440
## 5014360.436	11	0.0403
## 5021946.259	11	0.0403
## 5022947.548	11	0.0403
## 5024441.52	11	0.0403
## 5026028.533	11	0.0403
## 5029081.558	11	0.0403
## 5029269.608	11	0.0403
## 5030003.671	11	0.0403
## 5030406.555	11	0.0403
## 5032413.589	11	0.0403
## 5032470.689	11	0.0403
## 5033169.592	11	0.0403
## 5034296.403	11	0.0403
## 5035566.606	11	0.0403
## 5014878.717	10	0.0366
## 5015275.477	10	0.0366
## 5016732.455	10	0.0366
## 5018180.827	10	0.0366
## 5018182.723	10	0.0366
## 5018423.512	10	0.0366
## 5021245.541	10	0.0366
## 5021892.264	10	0.0366
## 5023771.453	10	0.0366
## 5023991.56	10	0.0366
## 5025402.627	10	0.0366
## 5026649.117	10	0.0366
## 5027337.549	10	0.0366
## 5029260.976	10	0.0366
## 5030765.57	10	0.0366
## 5031136.816	10	0.0366
## 5031425.218	10	0.0366
## 5031548.628	10	0.0366
## 5031742.564	10	0.0366
## 5031841.564	10	0.0366
## 5032111.58	10	0.0366
## 5032690.586	10	0.0366
## 5033066.54	10	0.0366
## 5033816.647	10	0.0366
## 5034108.108	10	0.0366



```
## 5014329.728      9    0.0330
## 5016623.444      9    0.0330
## 5016731.507      9    0.0330
## 5017864.465      9    0.0330
## 5020502.004      9    0.0330
## 5021766.3         9    0.0330
## 5022396.544      9    0.0330
## 5022584.5         9    0.0330
## 5023265.568      9    0.0330
## 5023465.505      9    0.0330
## 5024095.558      9    0.0330
## 5025876.912      9    0.0330
## 5026221.574      9    0.0330
## 5026488.527      9    0.0330
## 5028038.547      9    0.0330
## 5028091.547      9    0.0330
## 5029453.088      9    0.0330
## 5029797.514      9    0.0330
## 5030004.619      9    0.0330
## 5030591.606      9    0.0330
## 5030602.404      9    0.0330
## (Other)           25751 94.3537

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



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2015-Only 2015-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:368  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
##          0 5022544 5027982 4960329 5031454 5043413  
##  
## Summary as Factor Feature:  
##
```

```

## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 0 368 1.3206
## 5036471.099 33 0.1184
## 5021945.138 22 0.0789
## 5036159.2 22 0.0789
## 5021945.017 20 0.0718
## 5021944.417 19 0.0682
## 5021945.859 19 0.0682
## 5032412.508 18 0.0646
## 5021891.143 17 0.0610
## 5036160.043 17 0.0610
## 5030578.08 16 0.0574
## 5036470.135 16 0.0574
## 5031951.214 15 0.0538
## 5021942.98 14 0.0502
## 5025947.375 14 0.0502
## 5028091.187 14 0.0502
## 5030592.193 14 0.0502
## 5031015.426 14 0.0502
## 5031426.526 14 0.0502
## 5032471.139 14 0.0502
## 5034108.101 14 0.0502
## 5016623.804 13 0.0467
## 5018182.136 13 0.0467
## 5018423.014 13 0.0467
## 5023769.059 13 0.0467
## 5030005.206 13 0.0467
## 5030399.204 13 0.0467
## 5030578.202 13 0.0467
## 5030591.472 13 0.0467
## 5030593.035 13 0.0467
## 5021246.849 12 0.0431
## 5022583.419 12 0.0431
## 5022584.14 12 0.0431
## 5027894.193 12 0.0431
## 5033197.129 12 0.0431
## 5037976.801 12 0.0431
## 5017242.091 11 0.0395
## 5017903.55 11 0.0395
## 5021732.012 11 0.0395
## 5021890.422 11 0.0395
## 5023725.992 11 0.0395
## 5029080.476 11 0.0395

```

## 5031439.555	11	0.0395
## 5031742.925	11	0.0395
## 5031950.129	11	0.0395
## 5031951.935	11	0.0395
## 5036158.115	11	0.0395
## 5015275.943	10	0.0359
## 5017242.811	10	0.0359
## 5022748.014	10	0.0359
## 5023725.028	10	0.0359
## 5024781.03	10	0.0359
## 5024890.031	10	0.0359
## 5025692.995	10	0.0359
## 5026405.083	10	0.0359
## 5026850.461	10	0.0359
## 5026851.06	10	0.0359
## 5026851.182	10	0.0359
## 5026851.542	10	0.0359
## 5027337.067	10	0.0359
## 5027983.064	10	0.0359
## 5028498.46	10	0.0359
## 5029081.558	10	0.0359
## 5029796.085	10	0.0359
## 5030666.2	10	0.0359
## 5031118.118	10	0.0359
## 5031438.474	10	0.0359
## 5031439.195	10	0.0359
## 5031439.915	10	0.0359
## 5032472.225	10	0.0359
## 5032822.508	10	0.0359
## 5033817.113	10	0.0359
## 5036159.921	10	0.0359
## 5036473.544	10	0.0359
## 5014804.089	9	0.0323
## 5014824.673	9	0.0323
## 5020476.106	9	0.0323
## 5021891.021	9	0.0323
## 5021945.98	9	0.0323
## 5023465.866	9	0.0323
## 5023770.023	9	0.0323
## 5023770.505	9	0.0323
## 5024096.024	9	0.0323
## 5025404.041	9	0.0323
## 5027982.465	9	0.0323
## 5030006.049	9	0.0323
## 5030578.922	9	0.0323
## 5031101.106	9	0.0323
## 5031549.215	9	0.0323
## 5031841.924	9	0.0323

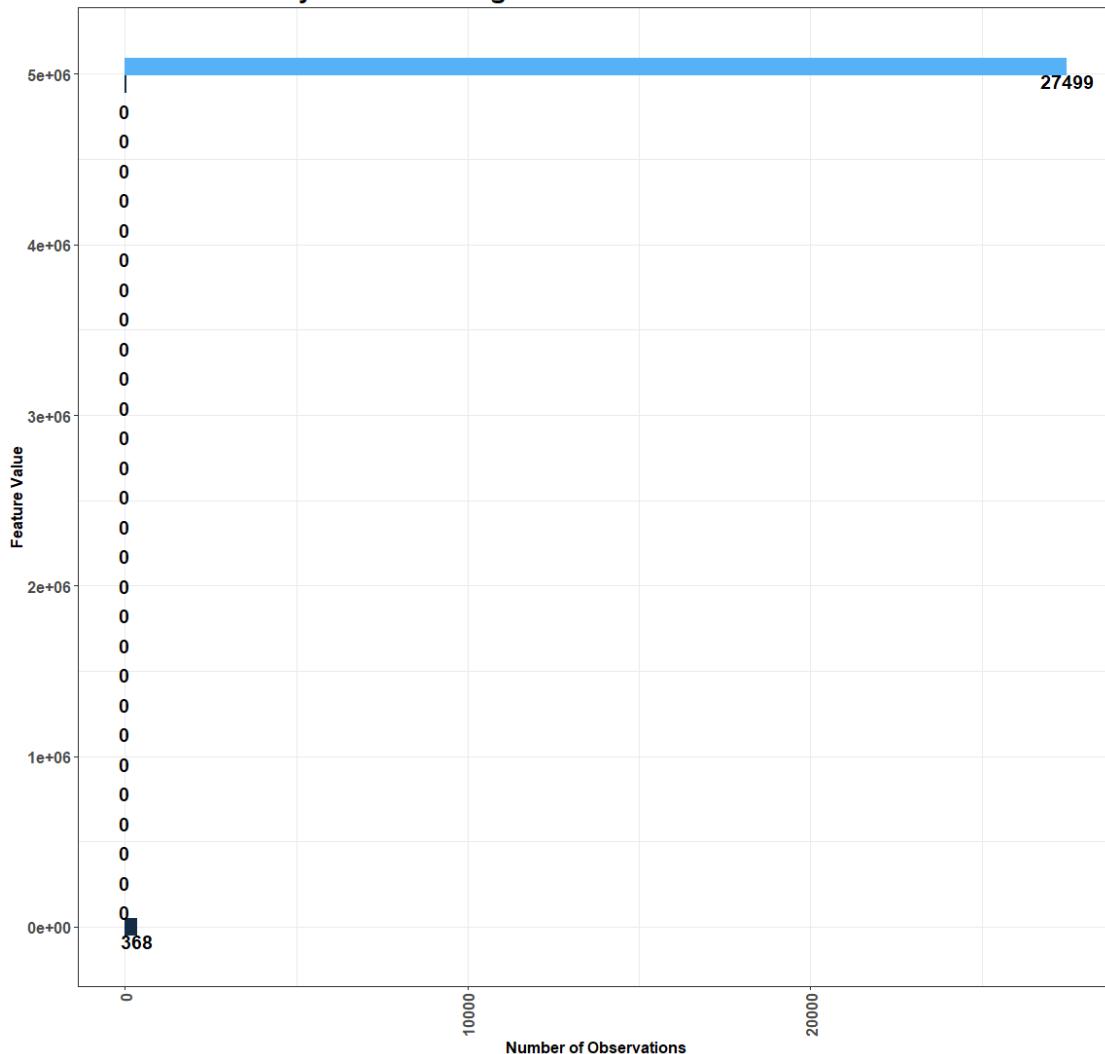
```

## 5032111.22          9    0.0323
## 5032822.143         9    0.0323
## 5033064.146         9    0.0323
## 5036472.063         9    0.0323
## 5036899.375         9    0.0323
## 5039989.859         9    0.0323
## 5014684.758         8    0.0287
## 5017241.37          8    0.0287
## 5017902.83          8    0.0287
## (Other)           26351  94.5599

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

```

**Plot of Feature:YCOORD
Data:All 2015-Only 2015-Homologated.csv**



```

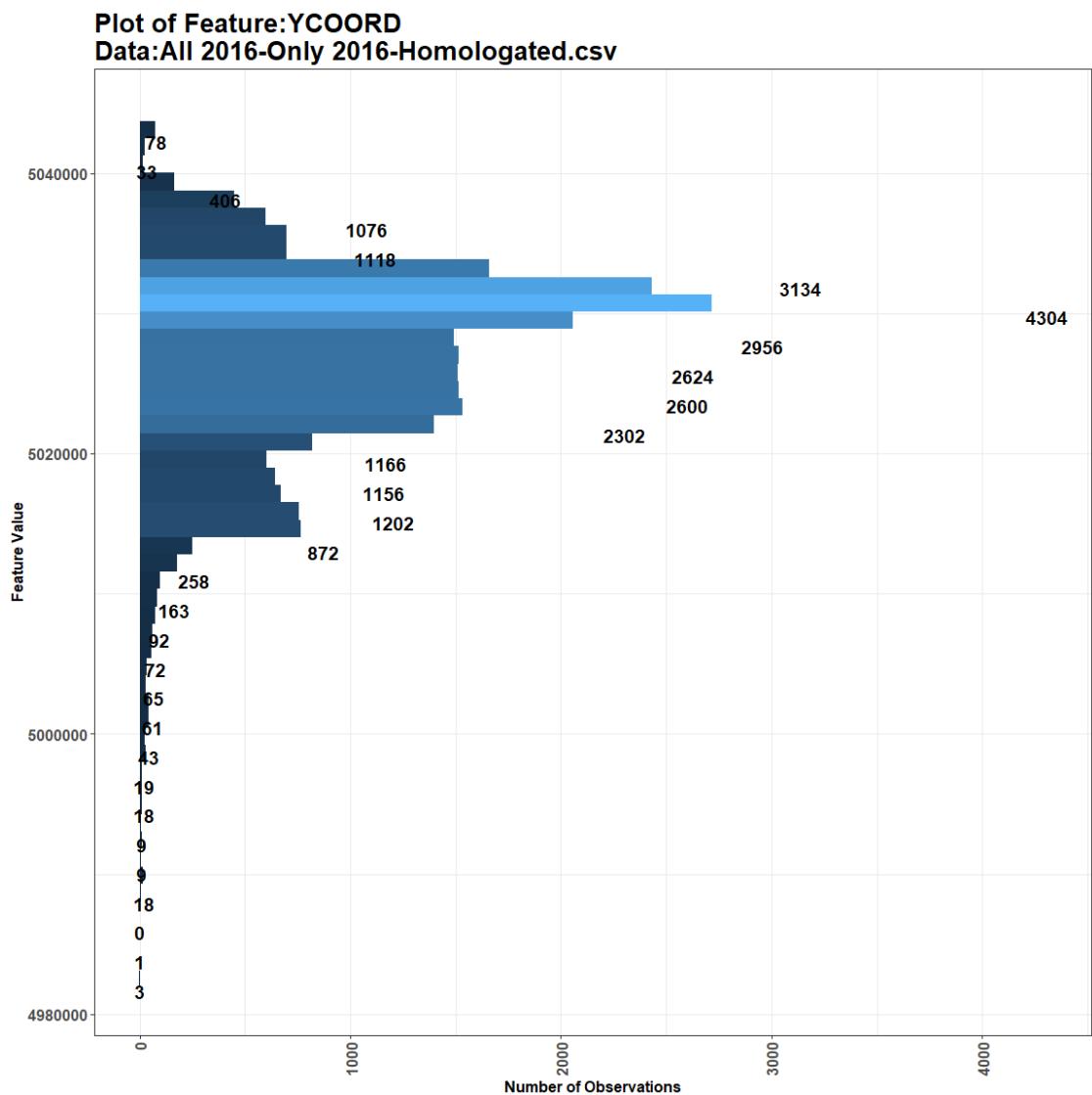
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Numeric Feature:
##     Min. 1st Qu. Median Mean 3rd Qu. Max.
## 4982829 5022398 5027767 5026532 5031501 5043440
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5036900.456      32    0.1238
## 5015759.789      21    0.0812
## 5039284.783      16    0.0619
## 5036158.319      15    0.0580
## 5021246.269      13    0.0503
## 5019506.072      12    0.0464
## 5031439.969      11    0.0425
## 5035022.308      11    0.0425
## 5021891.917      10    0.0387
## 5025830.528      10    0.0387
## 5036471.847      10    0.0387
## 5021941.256       9    0.0348
## 5022408.413       9    0.0348
## 5022584.086       9    0.0348
## 5024096.726       9    0.0348
## 5031119.564       9    0.0348
## 5033064.933       9    0.0348
## 5016732.236       8    0.0309
## 5022332.082       8    0.0309
## 5024890.099       8    0.0309
## 5025948.977       8    0.0309
## 5027493.641       8    0.0309
## 5027700.325       8    0.0309
## 5029081.777       8    0.0309
## 5029134.482       8    0.0309
## 5030987.139       8    0.0309
## 5031241.356       8    0.0309
## 5032111.8         8    0.0309
## 5032472.585       8    0.0309
## 5036470.892       8    0.0309

```

## 5036470.922	8	0.0309
## 5036471.315	8	0.0309
## 5036471.351	8	0.0309
## 5036775.913	8	0.0309
## 5015174.122	7	0.0271
## 5021890.845	7	0.0271
## 5022265.445	7	0.0271
## 5023724.852	7	0.0271
## 5026488.308	7	0.0271
## 5027766.85	7	0.0271
## 5028784.125	7	0.0271
## 5029345.397	7	0.0271
## 5030557.156	7	0.0271
## 5030626.347	7	0.0271
## 5031611.483	7	0.0271
## 5039285.316	7	0.0271
## 5012899.706	6	0.0232
## 5014001.028	6	0.0232
## 5014824.605	6	0.0232
## 5014961.935	6	0.0232
## 5015890.778	6	0.0232
## 5016732.041	6	0.0232
## 5017242.231	6	0.0232
## 5020175.263	6	0.0232
## 5020502.893	6	0.0232
## 5020503.721	6	0.0232
## 5020750.723	6	0.0232
## 5021245.247	6	0.0232
## 5021890.261	6	0.0232
## 5021891.284	6	0.0232
## 5021891.503	6	0.0232
## 5021944.401	6	0.0232
## 5021945.718	6	0.0232
## 5021945.913	6	0.0232
## 5021946.741	6	0.0232
## 5022055.979	6	0.0232
## 5022297.257	6	0.0232
## 5022396.25	6	0.0232
## 5022730.371	6	0.0232
## 5023508.236	6	0.0232
## 5023725.924	6	0.0232
## 5024096.287	6	0.0232
## 5024471.293	6	0.0232
## 5024541.267	6	0.0232
## 5024967.322	6	0.0232
## 5025042.737	6	0.0232
## 5025724.855	6	0.0232
## 5025725.294	6	0.0232

```
## 5025947.321      6    0.0232
## 5026029.775      6    0.0232
## 5026407.31       6    0.0232
## 5026646.807      6    0.0232
## 5027894.139      6    0.0232
## 5028675.204      6    0.0232
## 5029269.458      6    0.0232
## 5029334.903      6    0.0232
## 5031119.15       6    0.0232
## 5031154.477      6    0.0232
## 5031252.173      6    0.0232
## 5031523.456      6    0.0232
## 5031526.574      6    0.0232
## 5031549.162      6    0.0232
## 5031611.289      6    0.0232
## 5031628.159      6    0.0232
## 5032377.828      6    0.0232
## 5032471.343      6    0.0232
## 5032472.171      6    0.0232
## 5036159.78       6    0.0232
## 5036174.792      6    0.0232
## (Other)          25105 97.0879

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



```
##  
## -----  
## CHECKING FEATURE:YCOORD  
## DATA:All 2017-Only 2017-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Numeric Feature:  
##      Min. 1st Qu. Median Mean 3rd Qu. Max.  
## 4981312 5022099 5027160 5026123 5031278 5043414  
##  
## Summary as Factor Feature:  
##
```

```
## Number of Features: 100
##
## TOP 100 FEATURES OF YCOORD
##
## Feature Value Counter Percentage
## -----
## 5036900.456      39    0.1469
## 5025830.528      37    0.1394
## 5029453.563      25    0.0942
## 5036471.581      23    0.0867
## 5021246.489      21    0.0791
## 5026406.529      20    0.0754
## 5035022.308      20    0.0754
## 5021245.82       18    0.0678
## 5025325.515      18    0.0678
## 5015759.789      17    0.0641
## 5030578.562      17    0.0641
## 5031119.564      17    0.0641
## 5014584.958      16    0.0603
## 5021946.167      16    0.0603
## 5023770.505      14    0.0527
## 5030407.893      14    0.0527
## 5031798.27       14    0.0527
## 5021247.158      13    0.0490
## 5038666.453      13    0.0490
## 5014784.417      12    0.0452
## 5017676.769      12    0.0452
## 5019506.072      12    0.0452
## 5021942.498      12    0.0452
## 5024890.513      12    0.0452
## 5032009.58       12    0.0452
## 5032191.978      12    0.0452
## 5036472.919      12    0.0452
## 5014360.436      11    0.0414
## 5034108.583      11    0.0414
## 5014359.767      10    0.0377
## 5014945.242      10    0.0377
## 5017242.451      10    0.0377
## 5021945.499      10    0.0377
## 5023771.174      10    0.0377
## 5024097.506      10    0.0377
## 5027983.546      10    0.0377
## 5028092.885      10    0.0377
## 5028499.541      10    0.0377
## 5029364.565      10    0.0377
## 5031015.908      10    0.0377
## 5036470.243      10    0.0377
## 5017241.782       9    0.0339
```

## 5019554.478	9	0.0339
## 5021891.503	9	0.0339
## 5024129.499	9	0.0339
## 5024782.181	9	0.0339
## 5027766.436	9	0.0339
## 5030592.553	9	0.0339
## 5031550.245	9	0.0339
## 5033359.306	9	0.0339
## 5038667.122	9	0.0339
## 5014685.066	8	0.0301
## 5017904.528	8	0.0301
## 5018943.516	8	0.0301
## 5020455.478	8	0.0301
## 5022544.496	8	0.0301
## 5023313.163	8	0.0301
## 5023864.504	8	0.0301
## 5024839.528	8	0.0301
## 5024853.529	8	0.0301
## 5025662.527	8	0.0301
## 5026851.542	8	0.0301
## 5027337.549	8	0.0301
## 5029040.554	8	0.0301
## 5030245.247	8	0.0301
## 5030626.567	8	0.0301
## 5031118.895	8	0.0301
## 5033064.923	8	0.0301
## 5033781.565	8	0.0301
## 5035568.891	8	0.0301
## 5036159.561	8	0.0301
## 5036470.912	8	0.0301
## 5008974.718	7	0.0264
## 5014403.42	7	0.0264
## 5014684.398	7	0.0264
## 5014824.191	7	0.0264
## 5015174.509	7	0.0264
## 5017106.945	7	0.0264
## 5017107.614	7	0.0264
## 5017865.133	7	0.0264
## 5018424.46	7	0.0264
## 5020502.479	7	0.0264
## 5021566.492	7	0.0264
## 5021892.172	7	0.0264
## 5021943.167	7	0.0264
## 5022298.499	7	0.0264
## 5022543.828	7	0.0264
## 5022584.5	7	0.0264
## 5022949.833	7	0.0264
## 5023120.823	7	0.0264

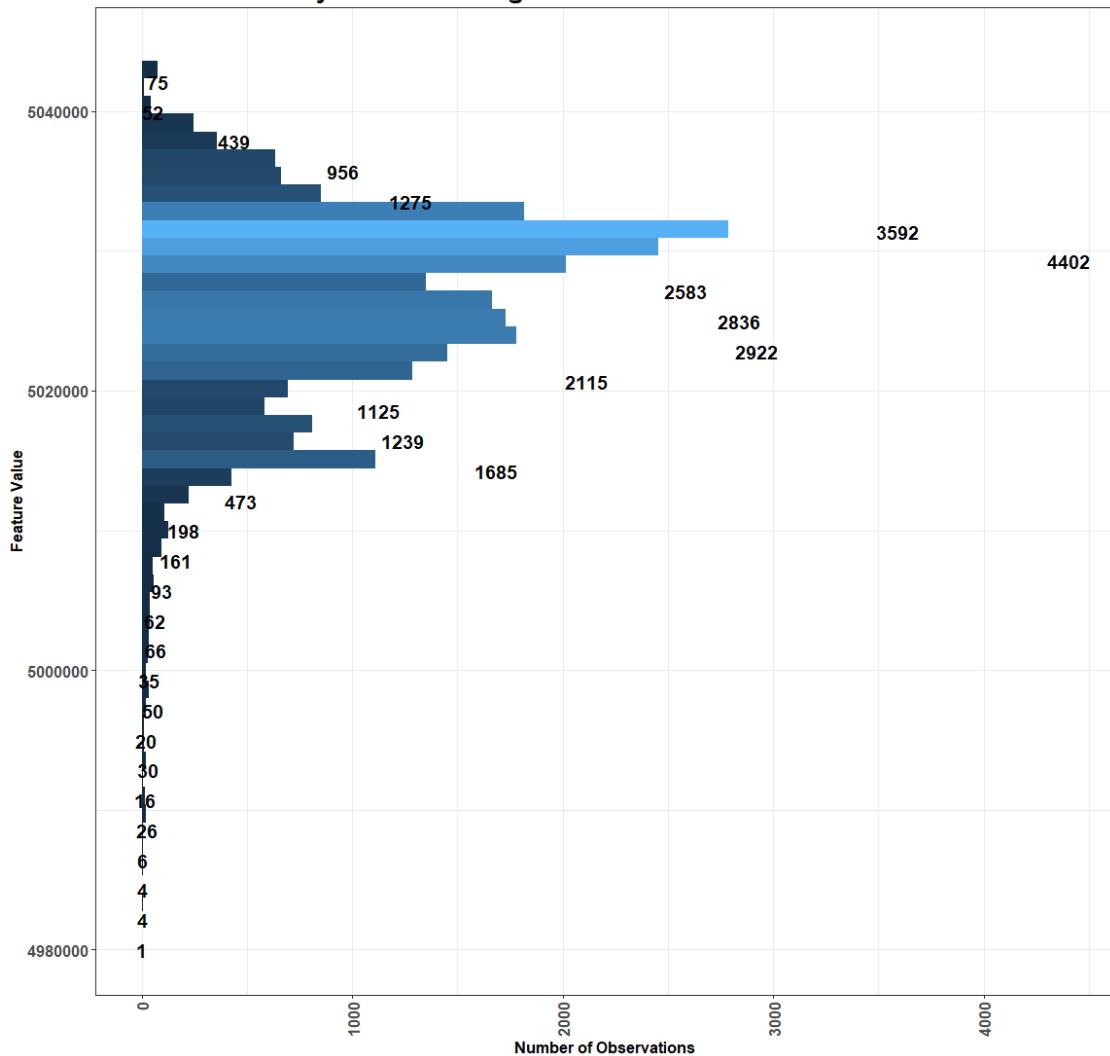
```

## 5024695.37      7    0.0264
## 5024781.512    7    0.0264
## 5026488.527    7    0.0264
## 5028247.233    7    0.0264
## 5028603.551    7    0.0264
## 5030393.233    7    0.0264
## 5030398.227    7    0.0264
## 5030476.572    7    0.0264
## 5030561.522    7    0.0264
## (Other)        25484 96.0175

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

```

**Plot of Feature:YCOORD
Data:All 2017-Only 2017-Homologated.csv**



```

##
## =====
## FINAL INFO CHECKING FEATURE:YCOORD

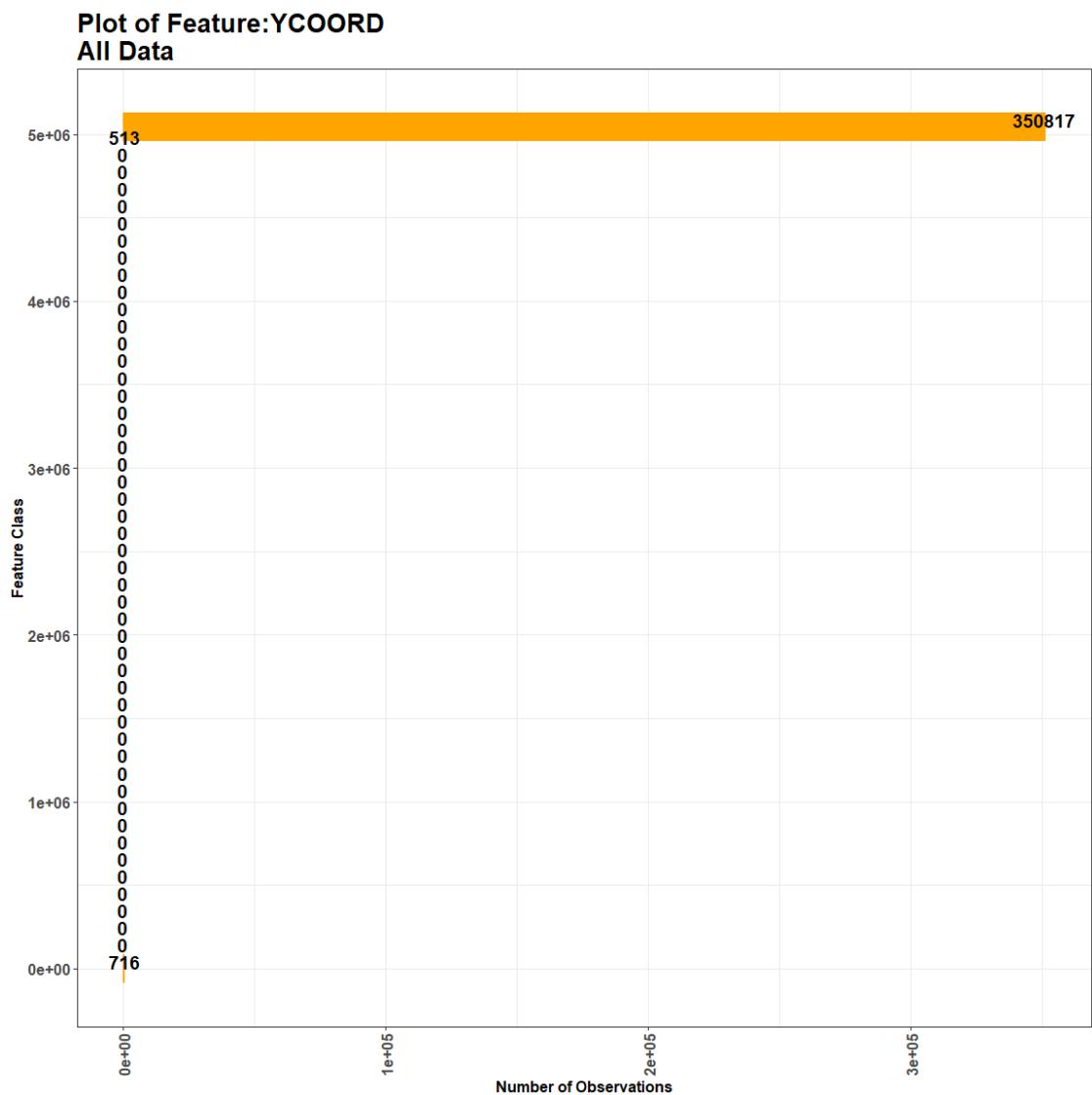
```

```

## ALL DATA...
## =====
##
## Number of Blank Values:0
## Number of Zero Values:716
## Number of Negative Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 25669 26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 26073 27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 28502 28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 27483 27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 26530 27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 27292 27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 25858 26541
##
##
## Summary as Numeric Feature:
## Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
## 0 5022615 5027747 5016276 5031428 5043472 28453
##
## Summary as Factor Feature:
## Number of Features: 100

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

```



```
## [1] "TOP 100 FEATURES COUNTERS OF :YCOORD"
```

Feature Value	Counter	Percentage
0	716	0.1882
5036471.581	154	0.0405
5031016.344	122	0.0321
5029081.557	100	0.0263
5023465.505	80	0.0210
5036900.456	80	0.0210
5023490.538	78	0.0205
5021946.714	77	0.0202
5036471.986	76	0.0200

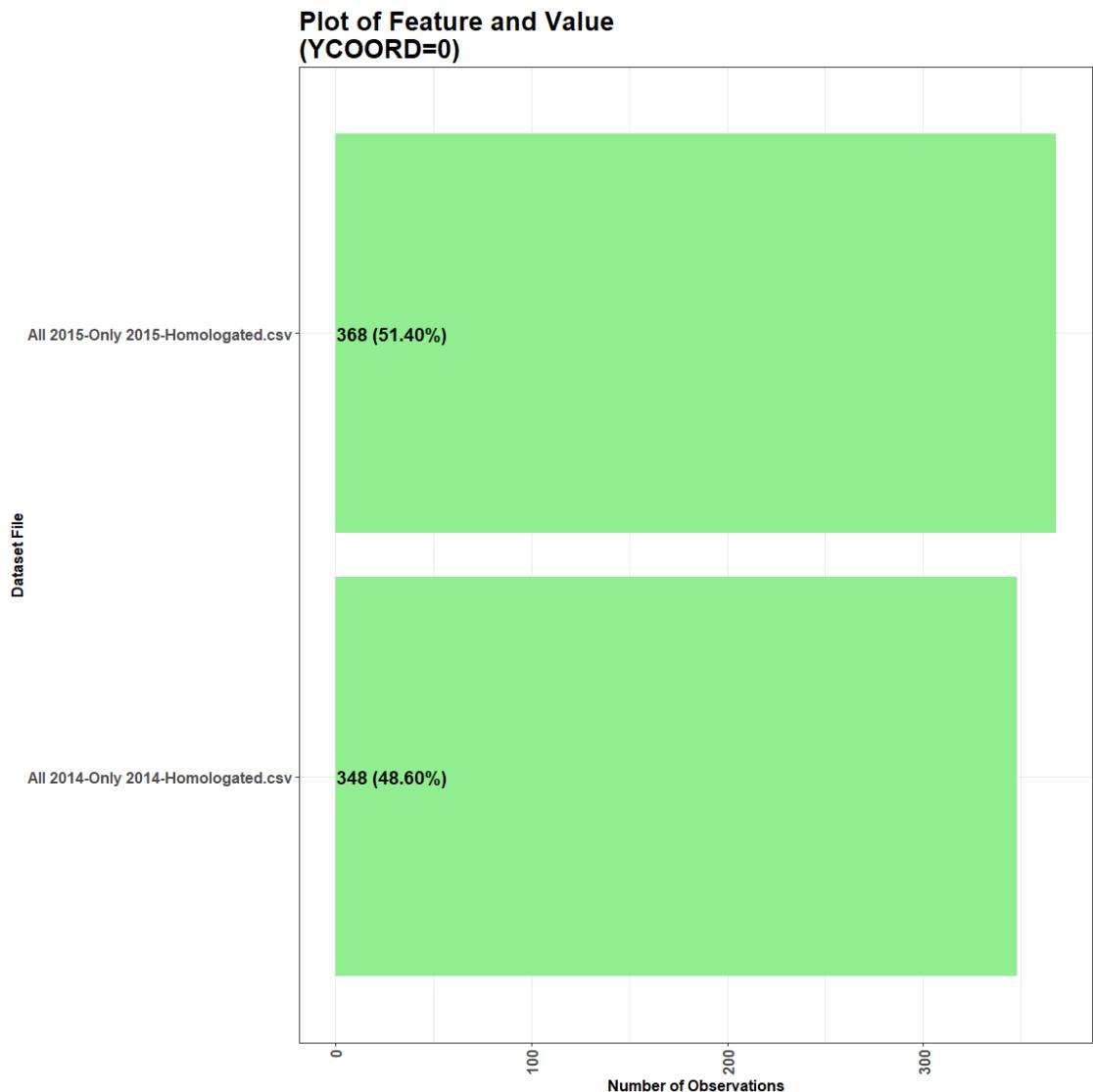
5021948.334	75	0.0197
5021947.524	73	0.0192
5021247.706	72	0.0189
5021246.896	69	0.0181
5032475.42	69	0.0181
5026852.757	68	0.0179
5026631.186	66	0.0173
5023774.15	64	0.0168
5021945.904	63	0.0166
5023772.53	63	0.0166
5021892.719	62	0.0163
5036472.796	62	0.0163
5030005.972	59	0.0155
5030006.782	59	0.0155
5021248.516	57	0.0150
5021250.136	57	0.0150
5023725.916	57	0.0150
5036474.416	56	0.0147
5021895.148	55	0.0145
5020502.884	54	0.0142
5030188.97	54	0.0142
5030582.207	54	0.0142
5016735.29	53	0.0139
5021891.909	53	0.0139
5023865.729	53	0.0139
5024100.151	53	0.0139
5030558.785	53	0.0139
5031956.03	53	0.0139
5032477.85	53	0.0139
5033497.429	53	0.0139
5019557.645	52	0.0137
5021949.144	52	0.0137
5028499.947	52	0.0137
5036471.176	52	0.0137
5014788.072	51	0.0134

5020506.124	51	0.0134
5021226.529	51	0.0134
5023773.34	51	0.0134
5026629.566	51	0.0134
5032476.23	51	0.0134
5036473.606	51	0.0134
5021246.086	50	0.0131
5021250.946	50	0.0131
5021950.763	50	0.0131
5025699.176	50	0.0131
5026628.756	50	0.0131
5031954.41	50	0.0131
5033198.98	50	0.0131
5016734.48	49	0.0129
5021943.713	49	0.0129
5021945.094	49	0.0129
5023770.1	49	0.0129
5025949.76	49	0.0129
5030581.397	49	0.0129
5036160.776	49	0.0129
5021949.953	48	0.0126
5031439.96	48	0.0126
5035571.209	48	0.0126
5021245.276	47	0.0124
5023769.29	47	0.0124
5024099.341	47	0.0124
5024100.961	47	0.0124
5025830.528	47	0.0124
5025948.95	47	0.0124
5025952.19	47	0.0124
5027493.939	47	0.0124
5028499.137	47	0.0124
5033499.858	47	0.0124
5014789.692	46	0.0121
5016732.861	46	0.0121

5021891.099	46	0.0121
5021894.338	46	0.0121
5023771.72	46	0.0121
5026630.376	46	0.0121
5030010.022	46	0.0121
5030192.209	46	0.0121
5032416.424	46	0.0121
5033200.6	46	0.0121
5021942.904	45	0.0118
5023171.237	45	0.0118
5024097.721	45	0.0118
5024101.961	45	0.0118
5030578.967	45	0.0118
5030583.017	45	0.0118
5032472.99	45	0.0118
5036163.206	45	0.0118
5036476.036	45	0.0118
5021893.528	44	0.0116
5023727.536	44	0.0116
(Other)	345946	90.9190
NA's	28453	7.4778

29.1 YCOORD = "0"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (YCOORD=0)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 348 368
```



DATASET FILE	COUNTER OF (YCOORD=0)	Percentage
All 2014-Only 2014-Homologated.csv	348	48.6
All 2015-Only 2015-Homologated.csv	368	51.4

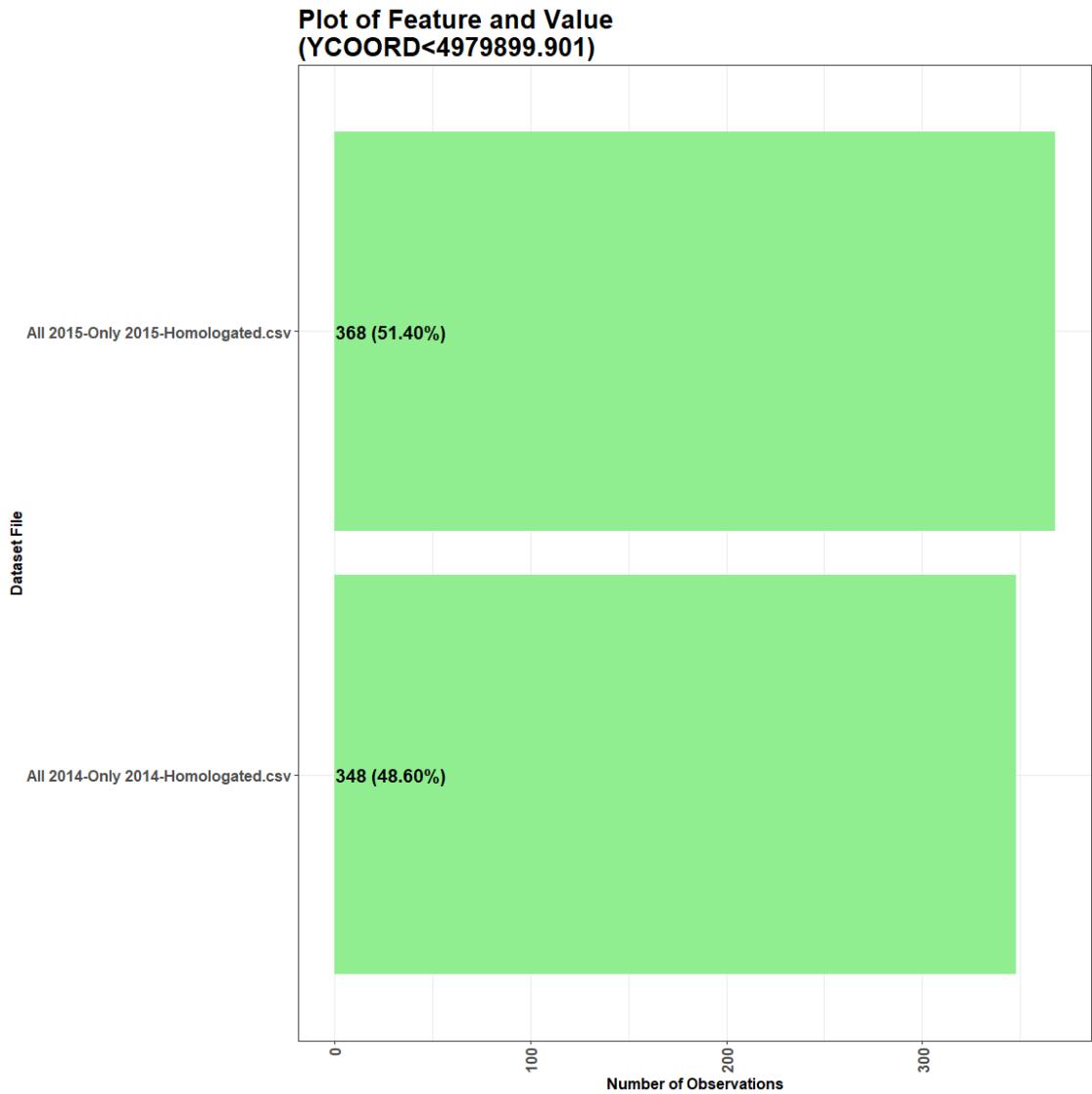
29.2 YCOORD = "5043472"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (YCOORD=5043472)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (YCOORD=5043472) Percentage -----

29.3 YCOORD < “4979899.901”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (YCOORD<4979899.901)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 348 368
```



DATASET FILE	COUNTER OF (YCOORD<4979899.901)	Percentage
All 2014-Only 2014-Homologated.csv	348	48.6

All 2015-Only 2015-Homologated.csv	368	51.4
------------------------------------	-----	------

29.4 YCOORD > “5047442.691”

```
##  
## =====  
## CHECKING FEATURE AND VALUE (YCOORD>5047442.691)  
## [1] "No data Found"
```

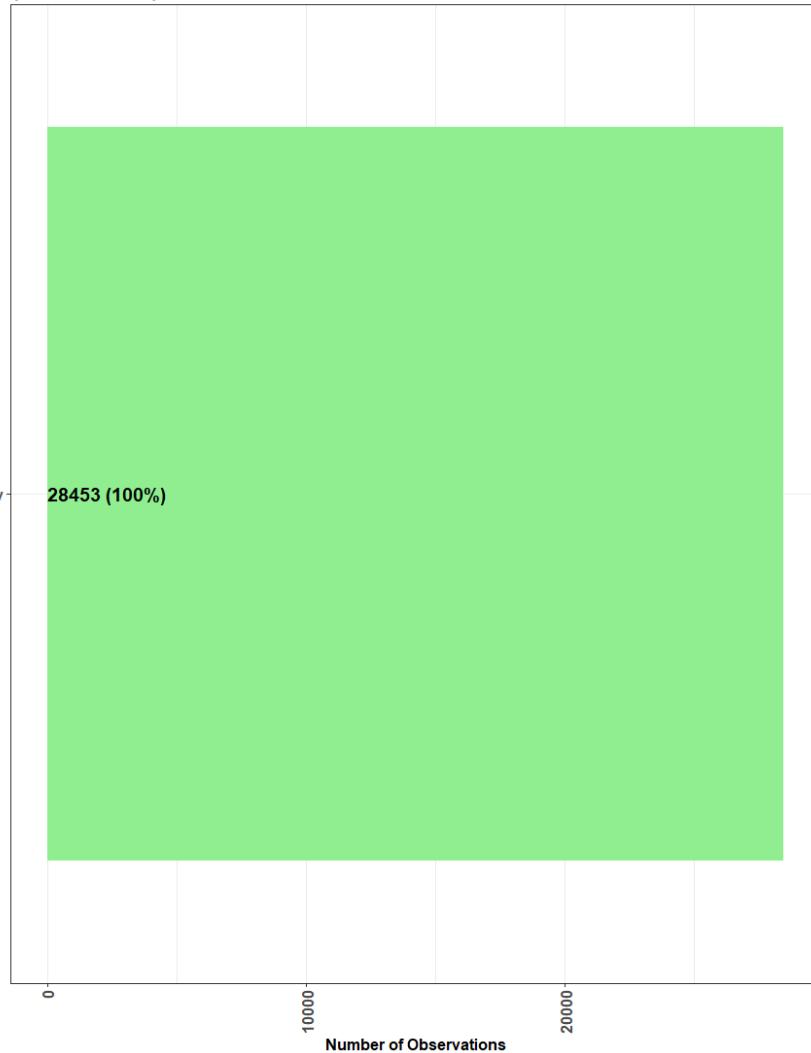
DATASET FILE COUNTER OF (YCOORD>5047442.691) Percentage ----- -----

29.5 YCOORD = “” (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (YCOORD=)  
##  
## Summary per Data File:  
## All 2009-Only 2009-Homologated.csv  
## 28453
```

Dataset File

All 2009-Only 2009-Homologated.csv

**Plot of Feature and Value
(YCOORD=)**


DATASET FILE	COUNTER OF (YCOORD=)	Percentage
All 2009-Only 2009-Homologated.csv	28453	100

30. Street1 (STREET1)

```
##  
## -----  
## CHECKING FEATURE:STREET1  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##
```

```

## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value Counter Percentage
## -----
## HIGHWAY 417      1843    7.1799
## BANK ST          911     3.5490
## BASELINE RD      642     2.5011
## CARLING AVE     550     2.1427
## BRONSON AVE     406     1.5817
## MONTREAL RD      366     1.4258
## INNES RD          336     1.3090
## MERIVALE RD      313     1.2194
## ST. LAURENT BLVD 292     1.1376
## KING EDWARD AVE 289     1.1259
## EAGLESON RD      283     1.1025
## HUNT CLUB RD      269     1.0480
## GREENBANK RD      264     1.0285
## RICHMOND RD       252     0.9817
## PRINCE OF WALES DR 244     0.9506
## FALLOWFIELD RD    234     0.9116
## BLAIR RD          215     0.8376
## MARCH RD          207     0.8064
## WOODROFFE AVE    204     0.7947
## ST. JOSEPH BLVD   201     0.7830
## RIVERSIDE DR       188     0.7324
## HIGHWAY 416        178     0.6934
## BOOTH ST           160     0.6233
## ALTA VISTA DR      156     0.6077
## REGIONAL ROAD 174  156     0.6077
## COLONEL BY DR      148     0.5766
## CYRVILLE RD         145     0.5649
## LAURIER AVE        143     0.5571
## MEADOWLANDS DR      143     0.5571
## RUSSELL RD          141     0.5493
## RIDEAU ST           138     0.5376
## HERON RD            133     0.5181
## ALBERT ST           131     0.5103
## DONALD ST            126     0.4909
## WALKLEY RD           126     0.4909
## ALBION RD            125     0.4870
## CARP RD              124     0.4831
## ELGIN ST              123     0.4792
## ISLAND PARK DR       122     0.4753
## INDUSTRIAL AVE       121     0.4714
## JEANNE D'ARC BLVD    121     0.4714
## BELFAST RD            117     0.4558

```



## CATHERINE ST	116	0.4519
## CONROY RD	115	0.4480
## FISHER AVE	113	0.4402
## REGIONAL RD 174	111	0.4324
## WEST HUNT CLUB RD	106	0.4129
## CAMPEAU DR	103	0.4013
## MCARTHUR AVE	103	0.4013
## AIRPORT PKWY	101	0.3935
## ROBERTSON RD	99	0.3857
## BYRON AVE	98	0.3818
## BEECHWOOD AVE	97	0.3779
## COVENTRY RD	96	0.3740
## CLYDE AVE	92	0.3584
## DALHOUSIE ST	92	0.3584
## GLADSTONE AVE	91	0.3545
## KENT ST	91	0.3545
## PRESTON ST	89	0.3467
## HAZELDEAN RD	86	0.3350
## LYON ST	84	0.3272
## TENTH LINE RD	84	0.3272
## CUMMINGS AVE	83	0.3233
## OGILVIE RD	83	0.3233
## HAWTHORNE RD	81	0.3156
## LANCASTER RD	76	0.2961
## SOMERSET ST	76	0.2961
## AVIATION PKWY	75	0.2922
## CEDARVIEW RD	75	0.2922
## MOODIE DR	74	0.2883
## WELLINGTON ST	73	0.2844
## SMYTH RD	71	0.2766
## CARLING AVE WB	70	0.2727
## CASTLEFRANK RD	69	0.2688
## PARKDALE AVE	67	0.2610
## CUMBERLAND ST	65	0.2532
## CARLING AVE EB	64	0.2493
## KIRKWOOD AVE	63	0.2454
## PINECREST RD	56	0.2182
## HOLLAND AVE	55	0.2143
## METCALFE ST	55	0.2143
## ANDERSON RD	54	0.2104
## BATHGATE DR	53	0.2065
## BESSERER ST	52	0.2026
## REGIONAL RD 174 EB	52	0.2026
## BAY ST	50	0.1948
## MITCH OWENS RD	50	0.1948
## DUNROBIN RD	49	0.1909
## RIVERSIDE DR NB	48	0.1870
## HWY 417 RIVERS IC117R52	46	0.1792

```

## QUEEN ST                      46      0.1792
## KNOXDALE RD                   45      0.1753
## O'CONNOR ST                   45      0.1753
## BRIDLE PATH DR                44      0.1714
## HAWTHORNE AVE                 44      0.1714
## HWY 417 ST.LAURE IC115R6       44      0.1714
## MAIN ST                        44      0.1714
## MCCARTHY RD                    44      0.1714
## ORLEANS BLVD                   44      0.1714
## (Other)                         10131   39.4678
##
## -----
## CHECKING FEATURE:STREET1
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value          Counter  Percentage
## -----
## HIGHWAY 417              1829     6.8746
## BANK ST                   1059     3.9805
## BASELINE RD                640      2.4056
## CARLING AVE                625      2.3492
## BRONSON AVE                442      1.6613
## MERIVALE RD                 357      1.3419
## MONTREAL RD                 339      1.2742
## KING EDWARD AVE             328      1.2329
## GREENBANK RD                 327      1.2291
## INNES RD                     320      1.2028
## EAGLESON RD                  297      1.1163
## PRINCE OF WALES DR            279      1.0487
## RICHMOND RD                  272      1.0224
## ST. LAURENT BLVD              248      0.9322
## HUNT CLUB RD                  245      0.9209
## FALLOWFIELD RD                 238      0.8946
## MARCH RD                      204      0.7668
## ALTA VISTA DR                  199      0.7480
## BLAIR RD                      196      0.7367
## ST. JOSEPH BLVD                 194      0.7292
## MEADOWLANDS DR                  186      0.6991
## WOODROFFE AVE                  186      0.6991
## LAURIER AVE                     167      0.6277

```

## JEANNE D'ARC BLVD	161	0.6051
## ALBERT ST	157	0.5901
## REGIONAL ROAD 174	156	0.5864
## COLONEL BY DR	152	0.5713
## ELGIN ST	152	0.5713
## RUSSELL RD	145	0.5450
## HAZELDEAN RD	139	0.5225
## ALBION RD	137	0.5149
## HIGHWAY 416	136	0.5112
## REGIONAL RD 174	132	0.4961
## CARP RD	131	0.4924
## CATHERINE ST	131	0.4924
## RIDEAU ST	131	0.4924
## MOODIE DR	129	0.4849
## WALKLEY RD	129	0.4849
## INDUSTRIAL AVE	126	0.4736
## COVENTRY RD	124	0.4661
## GLADSTONE AVE	122	0.4586
## DONALD ST	119	0.4473
## AIRPORT PKWY	115	0.4322
## BELFAST RD	115	0.4322
## HERON RD	115	0.4322
## RIVERSIDE DR	115	0.4322
## FISHER AVE	114	0.4285
## WEST HUNT CLUB RD	108	0.4059
## MCARTHUR AVE	107	0.4022
## PRESTON ST	106	0.3984
## CAMPEAU DR	103	0.3871
## CYRVILLE RD	100	0.3759
## TENTH LINE RD	100	0.3759
## CONROY RD	95	0.3571
## BEECHWOOD AVE	94	0.3533
## HOLLAND AVE	94	0.3533
## LANCASTER RD	94	0.3533
## ISLAND PARK DR	93	0.3496
## BOOTH ST	91	0.3420
## DALHOUSIE ST	88	0.3308
## ROBERTSON RD	87	0.3270
## CLYDE AVE	80	0.3007
## HAWTHORNE RD	80	0.3007
## CASTLEFRANK RD	79	0.2969
## OGILVIE RD	79	0.2969
## PARKDALE AVE	77	0.2894
## WELLINGTON ST	73	0.2744
## CEDARVIEW RD	71	0.2669
## KIRKWOOD AVE	71	0.2669
## BESSERER ST	70	0.2631
## CUMBERLAND ST	70	0.2631

## BYRON AVE	69	0.2593
## AVIATION PKWY	68	0.2556
## CARLING AVE WB	65	0.2443
## LYON ST	65	0.2443
## BANTREE ST	64	0.2406
## HIGHWAY 7	60	0.2255
## BATHGATE DR	59	0.2218
## DUNROBIN RD	59	0.2218
## O'CONNOR ST	59	0.2218
## PINECREST RD	59	0.2218
## CUMMINGS AVE	58	0.2180
## KENT ST	57	0.2142
## MITCH OWENS RD	57	0.2142
## REGIONAL RD 174 EB	57	0.2142
## SMYTH RD	57	0.2142
## WEST HUNT CLUB RD EB	57	0.2142
## DALY AVE	56	0.2105
## ANDERSON RD	55	0.2067
## MACKENZIE AVE	55	0.2067
## METCALFE ST	55	0.2067
## RIVERSIDE DR NB	55	0.2067
## RIVER RD	54	0.2030
## ORLEANS BLVD	53	0.1992
## MAITLAND AVE	52	0.1955
## WEST HUNT CLUB RD WB	52	0.1955
## SOMERSET ST	51	0.1917
## CARLING AVE EB	50	0.1879
## QUEEN ST	50	0.1879
## (Other)	10527	39.5678
##		
## -----		
## CHECKING FEATURE:STREET1		
## DATA:All 2006-Only 2006-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET1		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## HIGHWAY 417	1697	6.5086
## BANK ST	1000	3.8354
## BASELINE RD	662	2.5390
## CARLING AVE	630	2.4163

## INNES RD	369	1.4153
## BRONSON AVE	365	1.3999
## KING EDWARD AVE	353	1.3539
## MERIVALE RD	350	1.3424
## MONTREAL RD	349	1.3385
## GREENBANK RD	312	1.1966
## PRINCE OF WALES DR	254	0.9742
## BLAIR RD	251	0.9627
## ST. LAURENT BLVD	246	0.9435
## RICHMOND RD	243	0.9320
## MARCH RD	242	0.9282
## HUNT CLUB RD	233	0.8936
## FALLOWFIELD RD	224	0.8591
## ALTA VISTA DR	223	0.8553
## REGIONAL ROAD 174	216	0.8284
## EAGLESON RD	211	0.8093
## COLONEL BY DR	203	0.7786
## WOODROFFE AVE	200	0.7671
## MEADOWLANDS DR	189	0.7249
## LAURIER AVE	177	0.6789
## HIGHWAY 416	168	0.6443
## ELGIN ST	167	0.6405
## ALBERT ST	164	0.6290
## ST. JOSEPH BLVD	162	0.6213
## HERON RD	150	0.5753
## ALBION RD	145	0.5561
## GLADSTONE AVE	141	0.5408
## INDUSTRIAL AVE	138	0.5293
## RUSSELL RD	137	0.5254
## WALKLEY RD	129	0.4948
## CARP RD	128	0.4909
## JEANNE D'ARC BLVD	126	0.4833
## REGIONAL RD 174	125	0.4794
## CATHERINE ST	124	0.4756
## CLYDE AVE	123	0.4718
## RIVERSIDE DR	122	0.4679
## RIDEAU ST	118	0.4526
## CONROY RD	114	0.4372
## BELFAST RD	113	0.4334
## DONALD ST	113	0.4334
## MCARTHUR AVE	110	0.4219
## HAZELDEAN RD	105	0.4027
## FISHER AVE	104	0.3989
## MOODIE DR	103	0.3950
## CYRVILLE RD	101	0.3874
## KENT ST	99	0.3797
## ROBERTSON RD	99	0.3797
## BOOTH ST	97	0.3720

## AIRPORT PKWY	95	0.3644
## CARLING AVE WB	94	0.3605
## DALHOUSIE ST	94	0.3605
## CAMPEAU DR	90	0.3452
## BEECHWOOD AVE	87	0.3337
## ISLAND PARK DR	87	0.3337
## COVENTRY RD	82	0.3145
## WEST HUNT CLUB RD	81	0.3107
## HAWTHORNE RD	79	0.3030
## HOLLAND AVE	77	0.2953
## LYON ST	75	0.2877
## BANTREE ST	73	0.2800
## CARLING AVE EB	71	0.2723
## CASTLEFRANK RD	67	0.2570
## HOG'S BACK RD	66	0.2531
## PRESTON ST	66	0.2531
## PARKDALE AVE	65	0.2493
## BYRON AVE	64	0.2455
## SOMERSET ST	61	0.2340
## TENTH LINE RD	61	0.2340
## O'CONNOR ST	60	0.2301
## RIVERSIDE DR NB	60	0.2301
## BESSERER ST	59	0.2263
## MAITLAND AVE	59	0.2263
## OGILVIE RD	59	0.2263
## WELLINGTON ST	59	0.2263
## ANDERSON RD	58	0.2225
## WEST HUNT CLUB RD WB	58	0.2225
## KIRKWOOD AVE	55	0.2109
## CEDARVIEW RD	54	0.2071
## METCALFE ST	53	0.2033
## MITCH OWENS RD	53	0.2033
## REGIONAL RD 174 EB	52	0.1994
## CUMMINGS AVE	50	0.1918
## CLEOPATRA DR	49	0.1879
## DWYER HILL RD	49	0.1879
## AVIATION PKWY	48	0.1841
## BAYSHORE DR	47	0.1803
## BRIDGE ST	47	0.1803
## LIMEBANK RD	47	0.1803
## PLEASANT PARK RD	47	0.1803
## CUMBERLAND ST	46	0.1764
## LANCASTER RD	46	0.1764
## STRANDHERD DR	45	0.1726
## HWY 417 ST.LAURE IC115R6	44	0.1688
## CHARLEMAGNE BLVD N	43	0.1649
## DALY AVE	43	0.1649
## (Other)	10424	39.9801

```
##  
## -----  
## CHECKING FEATURE:STREET1  
## DATA:All 2007-Only 2007-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF STREET1  
##  
## Feature Value Counter Percentage  
## -----  
## HIGHWAY 417 1935 6.9717  
## BANK ST 1109 3.9957  
## CARLING AVE 646 2.3275  
## BASELINE RD 573 2.0645  
## BRONSON AVE 454 1.6357  
## INNES RD 388 1.3979  
## GREENBANK RD 365 1.3151  
## MERIVALE RD 352 1.2682  
## MONTREAL RD 352 1.2682  
## KING EDWARD AVE 325 1.1710  
## ST. LAURENT BLVD 309 1.1133  
## RICHMOND RD 293 1.0557  
## HUNT CLUB RD 285 1.0268  
## PRINCE OF WALES DR 275 0.9908  
## BLAIR RD 268 0.9656  
## WOODROFFE AVE 254 0.9152  
## EAGLESON RD 241 0.8683  
## MARCH RD 237 0.8539  
## ALTA VISTA DR 228 0.8215  
## FALLOWFIELD RD 223 0.8035  
## ALBERT ST 186 0.6701  
## COLONEL BY DR 184 0.6629  
## MEADOWLANDS DR 184 0.6629  
## JEANNE D'ARC BLVD 178 0.6413  
## REGIONAL ROAD 174 167 0.6017  
## RIDEAU ST 163 0.5873  
## ST. JOSEPH BLVD 163 0.5873  
## ELGIN ST 160 0.5765  
## HERON RD 154 0.5549  
## HIGHWAY 416 151 0.5440  
## HAZELDEAN RD 149 0.5368  
## RIVERSIDE DR 149 0.5368  
## INDUSTRIAL AVE 148 0.5332
```

## WALKLEY RD	147	0.5296
## CYRVILLE RD	144	0.5188
## MOODIE DR	137	0.4936
## WEST HUNT CLUB RD	128	0.4612
## GLADSTONE AVE	127	0.4576
## ALBION RD	126	0.4540
## COVENTRY RD	126	0.4540
## LAURIER AVE	125	0.4504
## REGIONAL RD 174	125	0.4504
## CATHERINE ST	123	0.4432
## MCARTHUR AVE	122	0.4396
## CONROY RD	121	0.4360
## FISHER AVE	121	0.4360
## BELFAST RD	120	0.4324
## BOOTH ST	118	0.4251
## RUSSELL RD	118	0.4251
## DONALD ST	111	0.3999
## CARP RD	106	0.3819
## CAMPEAU DR	100	0.3603
## SOMERSET ST	98	0.3531
## PARKDALE AVE	97	0.3495
## TENTH LINE RD	97	0.3495
## LYON ST	94	0.3387
## AIRPORT PKWY	93	0.3351
## CARLING AVE WB	91	0.3279
## REGIONAL RD 174 EB	90	0.3243
## HAWTHORNE RD	89	0.3207
## BEECHWOOD AVE	88	0.3171
## CLYDE AVE	86	0.3099
## CEDARVIEW RD	85	0.3063
## DALHOUSIE ST	85	0.3063
## CUMBERLAND ST	84	0.3026
## CARLING AVE EB	82	0.2954
## ROBERTSON RD	80	0.2882
## KIRKWOOD AVE	79	0.2846
## ISLAND PARK DR	77	0.2774
## LANCASTER RD	77	0.2774
## PINECREST RD	75	0.2702
## CASTLEFRANK RD	74	0.2666
## OGILVIE RD	74	0.2666
## O'CONNOR ST	73	0.2630
## BYRON AVE	71	0.2558
## MITCH OWENS RD	70	0.2522
## HOLLAND AVE	69	0.2486
## CUMMINGS AVE	67	0.2414
## KENT ST	67	0.2414
## ANDERSON RD	65	0.2342
## PRESTON ST	63	0.2270

## OTTAWA RIVER PKWY	60	0.2162
## TRIM RD	59	0.2126
## BANKFIELD RD	58	0.2090
## SMYTH RD	58	0.2090
## AVIATION PKWY	57	0.2054
## DALY AVE	57	0.2054
## KNOXDALE RD	57	0.2054
## HIGHWAY 7	56	0.2018
## LIMEBANK RD	54	0.1946
## MAITLAND AVE	54	0.1946
## BAYSHORE DR	53	0.1910
## BELCOURT BLVD	53	0.1910
## BESSERER ST	53	0.1910
## HWY 417 ST.LAURE IC115R6	53	0.1910
## RIVER RD	53	0.1910
## CLEOPATRA DR	52	0.1874
## BRIDLE PATH DR	51	0.1838
## ABBEYHILL DR	50	0.1801
## (Other)	10834	39.0344
##		
## -----		
## CHECKING FEATURE:STREET1		
## DATA:All 2008-Only 2008-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET1		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## HIGHWAY 417	2075	7.2802
## BANK ST	1047	3.6734
## BASELINE RD	608	2.1332
## CARLING AVE	604	2.1191
## BRONSON AVE	429	1.5052
## MONTREAL RD	385	1.3508
## INNES RD	376	1.3192
## RICHMOND RD	323	1.1333
## GREENBANK RD	318	1.1157
## EAGLESON RD	308	1.0806
## PRINCE OF WALES DR	304	1.0666
## HUNT CLUB RD	292	1.0245
## KING EDWARD AVE	287	1.0069
## MERIVALE RD	285	0.9999

## ST. LAURENT BLVD	278	0.9754
## ALTA VISTA DR	237	0.8315
## WOODROFFE AVE	237	0.8315
## BLAIR RD	229	0.8035
## FALLOWFIELD RD	227	0.7964
## REGIONAL ROAD 174	217	0.7614
## MARCH RD	201	0.7052
## HIGHWAY 416	197	0.6912
## INDUSTRIAL AVE	197	0.6912
## ALBION RD	194	0.6807
## HAZELDEAN RD	178	0.6245
## RIVERSIDE DR	178	0.6245
## JEANNE D'ARC BLVD	173	0.6070
## WALKLEY RD	172	0.6035
## HERON RD	171	0.6000
## MEADOWLANDS DR	171	0.6000
## COLONEL BY DR	167	0.5859
## RUSSELL RD	162	0.5684
## BELFAST RD	156	0.5473
## RIDEAU ST	156	0.5473
## CYRVILLE RD	154	0.5403
## MCARTHUR AVE	151	0.5298
## ELGIN ST	150	0.5263
## ALBERT ST	149	0.5228
## ST. JOSEPH BLVD	142	0.4982
## WEST HUNT CLUB RD	138	0.4842
## DONALD ST	136	0.4772
## COVENTRY RD	135	0.4737
## CATHERINE ST	132	0.4631
## GLADSTONE AVE	129	0.4526
## MOODIE DR	128	0.4491
## LAURIER AVE	127	0.4456
## CONROY RD	123	0.4315
## CARP RD	120	0.4210
## KENT ST	105	0.3684
## REGIONAL RD 174	105	0.3684
## BOOTH ST	103	0.3614
## FISHER AVE	103	0.3614
## HAWTHORNE RD	103	0.3614
## DALHOUSIE ST	101	0.3544
## CARLING AVE WB	98	0.3438
## CLYDE AVE	98	0.3438
## ISLAND PARK DR	98	0.3438
## ROBERTSON RD	95	0.3333
## BEECHWOOD AVE	93	0.3263
## AIRPORT PKWY	87	0.3052
## BAYSHORE DR	80	0.2807
## CAMPEAU DR	80	0.2807



## PINECREST RD	79	0.2772
## REGIONAL RD 174 EB	79	0.2772
## CASTLEFRANK RD	78	0.2737
## CEDARVIEW RD	76	0.2666
## CUMMINGS AVE	75	0.2631
## KNOXDALE RD	75	0.2631
## LYON ST	75	0.2631
## O'CONNOR ST	74	0.2596
## TENTH LINE RD	73	0.2561
## CUMBERLAND ST	71	0.2491
## BRIDGE ST	69	0.2421
## WELLINGTON ST	69	0.2421
## HUNTMAR DR	66	0.2316
## PARKDALE AVE	66	0.2316
## AVIATION PKWY	65	0.2281
## HOLLAND AVE	65	0.2281
## SOMERSET ST	64	0.2245
## BANTREE ST	63	0.2210
## LANCASTER RD	62	0.2175
## MITCH OWENS RD	62	0.2175
## TRIM RD	61	0.2140
## BAY ST	60	0.2105
## BYRON AVE	60	0.2105
## RIVERSIDE DR NB	60	0.2105
## ANDERSON RD	59	0.2070
## HWY 417 RIVERS IC117R52	59	0.2070
## WEST HUNT CLUB RD WB	59	0.2070
## CARLING AVE EB	56	0.1965
## CHARLEMAGNE BLVD N	55	0.1930
## WEST HUNT CLUB RD EB	55	0.1930
## MAITLAND AVE	53	0.1860
## OGILVIE RD	52	0.1824
## TERRY FOX DR	52	0.1824
## DALY AVE	51	0.1789
## KIRKWOOD AVE	51	0.1789
## PRESTON ST	51	0.1789
## ANTARES DR	50	0.1754
## (Other)	11350	39.8218
##		
## -----		
## CHECKING FEATURE:STREET1		
## DATA:All 2009-Only 2009-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		



```
##  
## TOP 100 FEATURES OF STREET1  
##  
## Feature Value Counter Percentage  
## ----- -----  
## HIGHWAY 417 2090 7.3454  
## BANK ST 982 3.4513  
## BASELINE RD 743 2.6113  
## CARLING AVE 624 2.1931  
## INNES RD 487 1.7116  
## MONTREAL RD 453 1.5921  
## BRONSON AVE 442 1.5534  
## GREENBANK RD 335 1.1774  
## MERIVALE RD 326 1.1457  
## HUNT CLUB RD 325 1.1422  
## ST. LAURENT BLVD 311 1.0930  
## RICHMOND RD 284 0.9981  
## PRINCE OF WALES DR 274 0.9630  
## KING EDWARD AVE 254 0.8927  
## FALLOWFIELD RD 243 0.8540  
## REGIONAL ROAD 174 242 0.8505  
## BLAIR RD 238 0.8365  
## ALTA VISTA DR 233 0.8189  
## WOODROFFE AVE 232 0.8154  
## MARCH RD 223 0.7837  
## EAGLESON RD 218 0.7662  
## MEADOWLANDS DR 211 0.7416  
## HAZELDEAN RD 188 0.6607  
## LAURIER AVE 178 0.6256  
## COLONEL BY DR 177 0.6221  
## CYRVILLE RD 176 0.6186  
## RIVERSIDE DR 175 0.6150  
## HERON RD 172 0.6045  
## ALBION RD 169 0.5940  
## ST. JOSEPH BLVD 169 0.5940  
## COVENTRY RD 162 0.5694  
## ELGIN ST 162 0.5694  
## ALBERT ST 158 0.5553  
## HIGHWAY 416 156 0.5483  
## INDUSTRIAL AVE 156 0.5483  
## CATHERINE ST 146 0.5131  
## JEANNE D'ARC BLVD 142 0.4991  
## RUSSELL RD 138 0.4850  
## BELFAST RD 135 0.4745  
## WALKLEY RD 131 0.4604  
## FISHER AVE 126 0.4428  
## DONALD ST 125 0.4393  
## CONROY RD 122 0.4288
```

## KENT ST	120	0.4217
## ISLAND PARK DR	116	0.4077
## CLYDE AVE	115	0.4042
## RIDEAU ST	115	0.4042
## GLADSTONE AVE	114	0.4007
## BEECHWOOD AVE	113	0.3971
## MOODIE DR	112	0.3936
## WEST HUNT CLUB RD	109	0.3831
## MCARTHUR AVE	106	0.3725
## DALHOUSIE ST	105	0.3690
## BOOTH ST	102	0.3585
## O'CONNOR ST	99	0.3479
## REGIONAL RD 174	97	0.3409
## CARLING AVE WB	95	0.3339
## CARP RD	95	0.3339
## CAMPEAU DR	94	0.3304
## TENTH LINE RD	92	0.3233
## CUMBERLAND ST	90	0.3163
## PARKDALE AVE	88	0.3093
## AVIATION PKWY	86	0.3023
## HAWTHORNE RD	86	0.3023
## CEDARVIEW RD	80	0.2812
## AIRPORT PKWY	77	0.2706
## MITCH OWENS RD	77	0.2706
## ROBERTSON RD	75	0.2636
## CUMMINGS AVE	71	0.2495
## OGILVIE RD	71	0.2495
## VANIER PKWY NB	71	0.2495
## BESSERER ST	70	0.2460
## BYRON AVE	70	0.2460
## REGIONAL RD 174 EB	70	0.2460
## METCALFE ST	66	0.2320
## HOLLAND AVE	65	0.2284
## CASTLEFRANK RD	64	0.2249
## KIRKWOOD AVE	64	0.2249
## BAY ST	63	0.2214
## SOMERSET ST	63	0.2214
## CARLING AVE EB	62	0.2179
## DUNROBIN RD	62	0.2179
## LYON ST	61	0.2144
## RIVERSIDE DR NB	61	0.2144
## LANCASTER RD	60	0.2109
## PINCREST RD	60	0.2109
## BAYSHORE DR	59	0.2074
## BROOKFIELD RD	59	0.2074
## COLONNADE RD	59	0.2074
## TERRY FOX DR	59	0.2074
## SMYTH RD	58	0.2038

```

## TRIM RD           57   0.2003
## BEARBROOK RD     56   0.1968
## CHURCHILL AVE    55   0.1933
## ANDERSON RD      54   0.1898
## HOLLY ACRES RD   54   0.1898
## NELSON ST         54   0.1898
## BANTREE ST        53   0.1863
## HAWTHORNE AVE     52   0.1828
## (Other)          11059 38.8676
##
## -----
## CHECKING FEATURE:STREET1
## DATA:All 2010-Only 2010-Homologated.csv...
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## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value       Counter   Percentage
## -----
## HIGHWAY 417         2001    7.2809
## BANK ST              1266    4.6065
## CARLING AVE          640     2.3287
## BASELINE RD           552     2.0085
## INNES RD              489     1.7793
## BRONSON AVE           461     1.6774
## MONTREAL RD            363     1.3208
## GREENBANK RD           336     1.2226
## MERIVALE RD             333     1.2117
## ST. LAURENT BLVD       300     1.0916
## FALLOWFIELD RD          284     1.0334
## PRINCE OF WALES DR       276     1.0043
## RICHMOND RD              260     0.9460
## WOODROFFE AVE           255     0.9278
## EAGLESON RD              254     0.9242
## HUNT CLUB RD              248     0.9024
## ALTA VISTA DR              221     0.8041
## KING EDWARD AVE           215     0.7823
## BLAIR RD                  213     0.7750
## MARCH RD                  211     0.7677
## REGIONAL ROAD 174          205     0.7459
## MEADOWLANDS DR              201     0.7314
## INDUSTRIAL AVE              177     0.6440
## ALBION RD                  165     0.6004

```



## CATHERINE ST	165	0.6004
## JEANNE D'ARC BLVD	163	0.5931
## ALBERT ST	161	0.5858
## CARP RD	159	0.5785
## LAURIER AVE	159	0.5785
## ST. JOSEPH BLVD	155	0.5640
## HERON RD	146	0.5312
## WALKLEY RD	141	0.5130
## DONALD ST	139	0.5058
## CLYDE AVE	137	0.4985
## FISHER AVE	137	0.4985
## COLONEL BY DR	135	0.4912
## CYRVILLE RD	135	0.4912
## DALHOUSIE ST	131	0.4767
## RIDEAU ST	131	0.4767
## HAZELDEAN RD	129	0.4694
## CONROY RD	127	0.4621
## GLADSTONE AVE	126	0.4585
## HIGHWAY 416	125	0.4548
## RUSSELL RD	125	0.4548
## HAWTHORNE RD	124	0.4512
## RIVERSIDE DR	124	0.4512
## REGIONAL RD 174	122	0.4439
## MCARTHUR AVE	120	0.4366
## ELGIN ST	118	0.4294
## COVENTRY RD	116	0.4221
## ISLAND PARK DR	115	0.4184
## BEECHWOOD AVE	114	0.4148
## BELFAST RD	111	0.4039
## CAMPEAU DR	108	0.3930
## CARLING AVE WB	98	0.3566
## TENTH LINE RD	96	0.3493
## CEDARVIEW RD	95	0.3457
## LANCASTER RD	95	0.3457
## BOOTH ST	94	0.3420
## KENT ST	92	0.3348
## REGIONAL RD 174 EB	90	0.3275
## MOODIE DR	89	0.3238
## WEST HUNT CLUB RD	86	0.3129
## PARKDALE AVE	85	0.3093
## AIRPORT PKWY	82	0.2984
## CARLING AVE EB	78	0.2838
## HOLLAND AVE	78	0.2838
## TERRY FOX DR	71	0.2583
## AVIATION PKWY	69	0.2511
## LYON ST	69	0.2511
## CHAMPLAIN BRIDGE	68	0.2474
## SOMERSET ST	67	0.2438

## BLACKBURN BYPASS	64	0.2329
## KIRKWOOD AVE	64	0.2329
## O'CONNOR ST	64	0.2329
## PINCREST RD	64	0.2329
## SMYTH RD	64	0.2329
## RIVERSIDE DR NB	63	0.2292
## CUMMINGS AVE	60	0.2183
## OGILVIE RD	60	0.2183
## CASTLEFRANK RD	59	0.2147
## CUMBERLAND ST	58	0.2110
## HAWTHORNE AVE	58	0.2110
## BAYSHORE DR	57	0.2074
## WELLINGTON ST	57	0.2074
## KATIMAVIK RD	56	0.2038
## BANKFIELD RD	55	0.2001
## BESSERER ST	55	0.2001
## HOG'S BACK RD	54	0.1965
## ROBERTSON RD	54	0.1965
## OTTAWA RIVER PKWY WB	53	0.1928
## PRESTON ST	53	0.1928
## BYRON AVE	52	0.1892
## DALY AVE	52	0.1892
## ANDERSON RD	50	0.1819
## MITCH OWENS RD	50	0.1819
## NICHOLAS ST	50	0.1819
## LEITRIM RD	49	0.1783
## METCALFE ST	49	0.1783
## (Other)	10533	38.3255
##		
## -----		
## CHECKING FEATURE:STREET1		
## DATA:All 2011-Only 2011-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET1		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## HIGHWAY 417	2104	7.5412
## BANK ST	999	3.5806
## BASELINE RD	745	2.6703
## CARLING AVE	602	2.1577
## INNES RD	482	1.7276

## BRONSON AVE	477	1.7097
## GREENBANK RD	409	1.4659
## MONTREAL RD	388	1.3907
## MERIVALE RD	334	1.1971
## HUNT CLUB RD	317	1.1362
## ST. LAURENT BLVD	309	1.1075
## FALLOWFIELD RD	283	1.0143
## PRINCE OF WALES DR	276	0.9892
## JEANNE D'ARC BLVD	269	0.9642
## BLAIR RD	250	0.8961
## EAGLESON RD	239	0.8566
## RICHMOND RD	238	0.8530
## WOODROFFE AVE	212	0.7599
## KING EDWARD AVE	208	0.7455
## ALTA VISTA DR	204	0.7312
## MARCH RD	199	0.7133
## INDUSTRIAL AVE	186	0.6667
## WALKLEY RD	179	0.6416
## FISHER AVE	173	0.6201
## REGIONAL ROAD 174	169	0.6057
## CARP RD	166	0.5950
## COLONEL BY DR	165	0.5914
## HIGHWAY 416	161	0.5771
## HERON RD	159	0.5699
## BELFAST RD	157	0.5627
## RIDEAU ST	154	0.5520
## CATHERINE ST	153	0.5484
## LAURIER AVE	153	0.5484
## ALBERT ST	149	0.5341
## ALBION RD	143	0.5125
## ELGIN ST	141	0.5054
## ST. JOSEPH BLVD	141	0.5054
## RIVERSIDE DR	139	0.4982
## RUSSELL RD	137	0.4910
## MEADOWLANDS DR	136	0.4875
## GLADSTONE AVE	131	0.4695
## HAWTHORNE RD	127	0.4552
## REGIONAL RD 174	121	0.4337
## DONALD ST	118	0.4229
## HAZELDEAN RD	116	0.4158
## BEECHWOOD AVE	114	0.4086
## CYRVILLE RD	114	0.4086
## CAMPEAU DR	113	0.4050
## ISLAND PARK DR	111	0.3978
## PARKDALE AVE	108	0.3871
## BOOTH ST	106	0.3799
## CONROY RD	106	0.3799
## COVENTRY RD	106	0.3799



## CARLING AVE WB	104	0.3728
## CLYDE AVE	97	0.3477
## LYON ST	95	0.3405
## WEST HUNT CLUB RD	94	0.3369
## KENT ST	91	0.3262
## MCARTHUR AVE	91	0.3262
## DALHOUSIE ST	88	0.3154
## AIRPORT PKWY	83	0.2975
## LANCASTER RD	81	0.2903
## O'CONNOR ST	80	0.2867
## MOODIE DR	76	0.2724
## CEDARVIEW RD	73	0.2616
## REGIONAL RD 174 EB	73	0.2616
## CARLING AVE EB	71	0.2545
## MAITLAND AVE	70	0.2509
## HOG'S BACK RD	68	0.2437
## HOLLAND AVE	68	0.2437
## BRIDGE ST	67	0.2401
## ROBERTSON RD	66	0.2366
## SMYTH RD	66	0.2366
## TRIM RD	66	0.2366
## BROOKFIELD RD	64	0.2294
## CASTLEFRANK RD	64	0.2294
## KIRKWOOD AVE	64	0.2294
## PRESTON ST	64	0.2294
## PINCREST RD	63	0.2258
## RIVERSIDE DR NB	63	0.2258
## TENTH LINE RD	63	0.2258
## BYRON AVE	62	0.2222
## WELLINGTON ST	62	0.2222
## AVIATION PKWY	59	0.2115
## KNOXDALE RD	59	0.2115
## MITCH OWENS RD	59	0.2115
## COLONNADE RD	58	0.2079
## NICHOLAS ST	58	0.2079
## CUMBERLAND ST	57	0.2043
## REGIONAL ROAD 174 WB	57	0.2043
## HWY 417 RIVERS IC117R52	56	0.2007
## STRANDHERD DR	56	0.2007
## TERRY FOX DR	55	0.1971
## LEITRIM RD	54	0.1935
## BERRIGAN DR	53	0.1900
## DUNROBIN RD	53	0.1900
## BAY ST	52	0.1864
## OGILVIE RD	52	0.1864
## SOMERSET ST	52	0.1864
## (Other)	10777	38.6272
##		

```

## -----
## CHECKING FEATURE:STREET1
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value Counter Percentage
## -----
## HIGHWAY 417 1779 6.7056
## BANK ST 953 3.5922
## BASELINE RD 716 2.6988
## INNES RD 542 2.0430
## CARLING AVE 473 1.7829
## GREENBANK RD 417 1.5718
## MONTREAL RD 333 1.2552
## BRONSON AVE 320 1.2062
## FALLOWFIELD RD 317 1.1949
## MERIVALE RD 293 1.1044
## ST. LAURENT BLVD 260 0.9800
## EAGLESON RD 258 0.9725
## JEANNE D'ARC BLVD 256 0.9649
## KING EDWARD AVE 251 0.9461
## HUNT CLUB RD 249 0.9386
## RICHMOND RD 246 0.9273
## PRINCE OF WALES DR 238 0.8971
## BLAIR RD 233 0.8783
## INDUSTRIAL AVE 213 0.8029
## ALTA VISTA DR 207 0.7802
## MARCH RD 194 0.7312
## WOODROFFE AVE 194 0.7312
## COLONEL BY DR 191 0.7199
## REGIONAL ROAD 174 172 0.6483
## ALBION RD 157 0.5918
## ST. JOSEPH BLVD 149 0.5616
## ELGIN ST 147 0.5541
## ALBERT ST 144 0.5428
## MEADOWLANDS DR 143 0.5390
## WALKLEY RD 143 0.5390
## CARP RD 142 0.5352
## HERON RD 140 0.5277
## REGIONAL RD 174 138 0.5202
## RUSSELL RD 138 0.5202

```

## CATHERINE ST	137	0.5164
## HIGHWAY 416	128	0.4825
## HAZELDEAN RD	126	0.4749
## GLADSTONE AVE	125	0.4712
## WEST HUNT CLUB RD	125	0.4712
## CYRVILLE RD	121	0.4561
## LAURIER AVE	120	0.4523
## AIRPORT PKWY	117	0.4410
## FISHER AVE	114	0.4297
## CONROY RD	112	0.4222
## RIVERSIDE DR	112	0.4222
## COVENTRY RD	111	0.4184
## BELFAST RD	110	0.4146
## LYON ST	110	0.4146
## HAWTHORNE RD	109	0.4109
## BOOTH ST	108	0.4071
## MCARTHUR AVE	106	0.3995
## CAMPEAU DR	105	0.3958
## BEECHWOOD AVE	104	0.3920
## CASTLEFRANK RD	100	0.3769
## CLYDE AVE	93	0.3505
## MOODIE DR	93	0.3505
## DONALD ST	92	0.3468
## BESSERER ST	88	0.3317
## CEDARVIEW RD	87	0.3279
## ISLAND PARK DR	87	0.3279
## DALHOUSIE ST	86	0.3242
## REGIONAL RD 174 EB	84	0.3166
## WELLINGTON ST	84	0.3166
## TENTH LINE RD	83	0.3129
## CUMBERLAND ST	81	0.3053
## KENT ST	80	0.3015
## O'CONNOR ST	80	0.3015
## MITCH OWENS RD	79	0.2978
## RIDEAU ST	79	0.2978
## BAYSHORE DR	76	0.2865
## OGILVIE RD	72	0.2714
## AVIATION PKWY	71	0.2676
## CARLING AVE WB	69	0.2601
## PARKDALE AVE	67	0.2525
## PINCREST RD	66	0.2488
## ANDERSON RD	65	0.2450
## BRIDGE ST	65	0.2450
## HOG'S BACK RD	65	0.2450
## KIRKWOOD AVE	64	0.2412
## BAY ST	62	0.2337
## RIVERSIDE DR NB	62	0.2337
## NAVAN RD	61	0.2299



```
## LEITRIM RD           60    0.2262
## STRANDHERD DR       60    0.2262
## TERRY FOX DR         60    0.2262
## CARLING AVE EB       57    0.2149
## ROBERTSON RD          57    0.2149
## WEST HUNT CLUB RD EB   55    0.2073
## BYRON AVE             54    0.2035
## CUMMINGS AVE           53    0.1998
## DEAKIN ST              51    0.1922
## NAVAHO DR              51    0.1922
## TRIM RD                50    0.1885
## WEST HUNT CLUB RD WB    50    0.1885
## PRESTON ST              49    0.1847
## RIVERSIDE DR SB         49    0.1847
## CHURCHILL AVE           48    0.1809
## SOMERSET ST              48    0.1809
## HOLLAND AVE              47    0.1772
## (Other)                 10444 39.3668
##
##
## -----
## CHECKING FEATURE:STREET1
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value      Counter  Percentage
## -----
## HIGHWAY 417          2446    8.7448
## BANK ST               1149    4.1078
## BASELINE RD            636    2.2738
## CARLING AVE            517    1.8483
## INNES RD                495    1.7697
## GREENBANK RD            418    1.4944
## MERIVALE RD              376    1.3442
## BRONSON AVE              370    1.3228
## ST. LAURENT BLVD        324    1.1583
## MONTREAL RD              318    1.1369
## PRINCE OF WALES DR        281    1.0046
## BLAIR RD                  261    0.9331
## HUNT CLUB RD              260    0.9295
## FALLOWFIELD RD             254    0.9081
## ALTA VISTA DR              247    0.8831
```



## KING EDWARD AVE	245	0.8759
## INDUSTRIAL AVE	243	0.8688
## WOODROFFE AVE	241	0.8616
## REGIONAL ROAD 174	240	0.8580
## JEANNE D'ARC BLVD	233	0.8330
## RICHMOND RD	233	0.8330
## EAGLESON RD	201	0.7186
## ALBION RD	184	0.6578
## MEADOWLANDS DR	173	0.6185
## RIVERSIDE DR	169	0.6042
## WALKLEY RD	169	0.6042
## HAZELDEAN RD	164	0.5863
## HIGHWAY 416	163	0.5827
## MARCH RD	157	0.5613
## LAURIER AVE	155	0.5541
## WEST HUNT CLUB RD	152	0.5434
## CARP RD	148	0.5291
## ELGIN ST	148	0.5291
## ALBERT ST	143	0.5112
## CATHERINE ST	142	0.5077
## CAMPEAU DR	140	0.5005
## COLONEL BY DR	136	0.4862
## HERON RD	135	0.4826
## ST. JOSEPH BLVD	132	0.4719
## RUSSELL RD	131	0.4683
## GLADSTONE AVE	129	0.4612
## ISLAND PARK DR	125	0.4469
## BELFAST RD	123	0.4397
## CYRVILLE RD	121	0.4326
## DONALD ST	115	0.4111
## CONROY RD	112	0.4004
## KENT ST	110	0.3933
## MCARTHUR AVE	108	0.3861
## TERRY FOX DR	107	0.3825
## FISHER AVE	106	0.3790
## REGIONAL RD 174	106	0.3790
## BAYSHORE DR	105	0.3754
## BEECHWOOD AVE	104	0.3718
## HAWTHORNE RD	101	0.3611
## CARLING AVE WB	100	0.3575
## BOOTH ST	94	0.3361
## DALHOUSIE ST	93	0.3325
## COVENTRY RD	92	0.3289
## CASTLEFRANK RD	89	0.3182
## LYON ST	89	0.3182
## ROBERTSON RD	89	0.3182
## TRIM RD	88	0.3146
## CEDARVIEW RD	86	0.3075



```
## MITCH OWENS RD           86    0.3075
## MOODIE DR                85    0.3039
## RIVERSIDE DR NB          81    0.2896
## WELLINGTON ST             81    0.2896
## BESSERER ST               80    0.2860
## PARKDALE AVE              80    0.2860
## KIRKWOOD AVE              79    0.2824
## RIDEAU ST                 79    0.2824
## BYRON AVE                  76    0.2717
## AVIATION PKWY              75    0.2681
## CARLING AVE EB            73    0.2610
## MAITLAND AVE              73    0.2610
## CLYDE AVE                  72    0.2574
## AIRPORT PKWY              71    0.2538
## SOMERSET ST                69    0.2467
## CUMMINGS AVE               68    0.2431
## REGIONAL RD 174 EB         64    0.2288
## ANDERSON RD                63    0.2252
## HOG'S BACK RD              63    0.2252
## CLEOPATRA DR                62    0.2217
## BELCOURT BLVD              60    0.2145
## HAWTHORNE AVE              60    0.2145
## OGILVIE RD                  60    0.2145
## WEST HUNT CLUB RD WB        60    0.2145
## O'CONNOR ST                 59    0.2109
## CUMBERLAND ST              58    0.2074
## KATIMAVIK RD                58    0.2074
## LONGFIELDS DR              57    0.2038
## BLACKBURN BYPASS            56    0.2002
## WEST HUNT CLUB RD EB        55    0.1966
## HOLLAND AVE                 52    0.1859
## PRESTON ST                  52    0.1859
## SMYTH RD                     52    0.1859
## LANCASTER RD                 51    0.1823
## BAY ST                        50    0.1788
## CHURCHILL AVE                49    0.1752
## (Other)                      10481 37.4710
##
## -----
## CHECKING FEATURE:STREET1
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
```

```
## TOP 100 FEATURES OF STREET1
##
## Feature Value
Counter Percentage
## -----
-- -----
## HIGHWAY 417
2080      7.6213
## BANK ST
984       3.6055
## INNES RD
530       1.9420
## BASELINE RD
524       1.9200
## CARLING AVE
518       1.8980
## GREENBANK RD
497       1.8210
## MONTREAL RD
435       1.5939
## BRONSON AVE
422       1.5462
## MERIVALE RD
358       1.3117
## ST. LAURENT BLVD
353       1.2934
## WOODROFFE AVE
333       1.2201
## HUNT CLUB RD
331       1.2128
## PRINCE OF WALES DR
331       1.2128
## RICHMOND RD
331       1.2128
## ST. JOSEPH BLVD
286       1.0479
## FALLOWFIELD RD
284       1.0406
## RIVERSIDE DR
279       1.0223
## REGIONAL ROAD 174
277       1.0149
## EAGLESON RD
256       0.9380
## WEST HUNT CLUB RD
242       0.8867
## KING EDWARD AVE
237       0.8684
```

TERRY FOX DR
228 0.8354
INDUSTRIAL AVE
203 0.7438
MARCH RD
186 0.6815
ALTA VISTA DR
179 0.6559
CARP RD
171 0.6266
HAZELDEAN RD
165 0.6046
WALKLEY RD
159 0.5826
ELGIN ST
158 0.5789
TENTH LINE RD
158 0.5789
BLAIR RD
154 0.5643
HIGHWAY 416
149 0.5459
PARKDALE AVE
145 0.5313
CYRVILLE RD
142 0.5203
COLONEL BY DR
134 0.4910
ALBERT ST
133 0.4873
ALBION RD
132 0.4837
HAWTHORNE RD
126 0.4617
STRANDHERD DR
122 0.4470
MEADOWLANDS DR
121 0.4434
RIDEAU ST
121 0.4434
GLADSTONE AVE
116 0.4250
OTTAWA RIVER PKWY
115 0.4214
CONROY RD
114 0.4177
DONALD ST
114 0.4177

FISHER AVE
111 0.4067
OGILVIE RD
109 0.3994
CAMPEAU DR
105 0.3847
CATHERINE ST
99 0.3627
AVIATION PKWY
96 0.3518
LYON ST
96 0.3518
MCARTHUR AVE
96 0.3518
MOODIE DR
95 0.3481
AIRPORT PKWY
93 0.3408
RIVERSIDE DR NB
91 0.3334
JEANNE D'ARC BLVD
87 0.3188
NEW Midblock East/West Location DO NOT APPROVE COUNT (_dddddd)
87 0.3188
BOOTH ST
85 0.3114
HERON RD
84 0.3078
DALHOUSIE ST
83 0.3041
ANDERSON RD
79 0.2895
KENT ST
79 0.2895
KIRKWOOD AVE
79 0.2895
HOLLAND AVE
75 0.2748
CARLING AVE WB
74 0.2711
LAURIER AVE
74 0.2711
CUMMINGS AVE
72 0.2638
INDUSTRIAL AVE/INNES RD
72 0.2638
NEW Midblock North/South Location DO NOT APPROVE COUNT (_eeeeee)
70 0.2565

BESSERER ST
68 0.2492
CAMPEAU DR/HWY 417 MARCH IC138R63
68 0.2492
JOCKVALE RD
68 0.2492
REGIONAL ROAD 174 EB
68 0.2492
TRIM RD
67 0.2455
BAYSHORE DR
65 0.2382
CEDARVIEW RD
65 0.2382
HAWTHORNE RD/RUSSELL RD
65 0.2382
CASTLEFRANK RD
62 0.2272
STITTSVILLE MAIN ST
61 0.2235
VIEWMOUNT DR
61 0.2235
COVENTRY RD
60 0.2198
SMYTH RD
60 0.2198
BYRON AVE
58 0.2125
OTTAWA RIVER PKWY WB
58 0.2125
RUSSELL RD
58 0.2125
SOMERSET ST W
58 0.2125
BELFAST RD
57 0.2089
PRESTON ST
56 0.2052
CUMBERLAND ST
54 0.1979
DALY AVE
54 0.1979
O'CONNOR ST
54 0.1979
WEST HUNT CLUB RD EB
54 0.1979
BANTREE ST
53 0.1942

```

## ISLAND PARK DR
53      0.1942
## METCALFE ST
53      0.1942
## VANIER PKWY/CRICHTON ST
53      0.1942
## MEADOWLANDS DR/TALLWOOD DR
52      0.1905
## BAY ST
51      0.1869
## MITCH OWENS RD
51      0.1869
## (Other)
10003    36.6518
##
## -----
## CHECKING FEATURE:STREET1
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value          Counter   Percentage
## -----
## HIGHWAY 417              1915      6.8719
## BANK ST                  1134      4.0693
## INNES RD                 584       2.0957
## CARLING AVE              560       2.0095
## BASELINE RD               534       1.9162
## BRONSON AVE              478       1.7153
## MONTREAL RD               448       1.6076
## GREENBANK RD              418       1.5000
## HUNT CLUB RD              396       1.4210
## MERIVALE RD               375       1.3457
## ST. LAURENT BLVD          364       1.3062
## PRINCE OF WALES DR         362       1.2990
## WOODROFFE AVE             360       1.2919
## RIVERSIDE DR               325       1.1663
## REGIONAL ROAD 174          305       1.0945
## ST. JOSEPH BLVD            295       1.0586
## BLAIR RD                  286       1.0263
## FALLOWFIELD RD             267       0.9581
## RICHMOND RD                263       0.9438

```

## EAGLESON RD	240	0.8612
## KING EDWARD AVE	233	0.8361
## INDUSTRIAL AVE	226	0.8110
## TERRY FOX DR	220	0.7895
## ELGIN ST	201	0.7213
## TENTH LINE RD	193	0.6926
## WEST HUNT CLUB RD	190	0.6818
## MARCH RD	183	0.6567
## ALBION RD	166	0.5957
## HAZELDEAN RD	161	0.5777
## CONROY RD	159	0.5706
## DONALD ST	154	0.5526
## ALTA VISTA DR	148	0.5311
## FISHER AVE	146	0.5239
## HAWTHORNE RD	138	0.4952
## CYRVILLE RD	137	0.4916
## STRANDHERD DR	136	0.4880
## CARP RD	129	0.4629
## MEADOWLANDS DR	129	0.4629
## OGILVIE RD	120	0.4306
## BESSERER ST	119	0.4270
## COLONEL BY DR	118	0.4234
## PARKDALE AVE	118	0.4234
## HERON RD	117	0.4199
## HIGHWAY 416	113	0.4055
## GLADSTONE AVE	112	0.4019
## WALKLEY RD	112	0.4019
## RIDEAU ST	105	0.3768
## ALBERT ST	102	0.3660
## DALHOUSIE ST	101	0.3624
## JEANNE D'ARC BLVD	101	0.3624
## BELFAST RD	100	0.3588
## AVIATION PKWY	98	0.3517
## PRESTON ST	97	0.3481
## CAMPEAU DR	93	0.3337
## ISLAND PARK DR	92	0.3301
## BOOTH ST	90	0.3230
## LYON ST	90	0.3230
## MOODIE DR	90	0.3230
## OTTAWA RIVER PKWY	89	0.3194
## KENT ST	88	0.3158
## REGIONAL ROAD 174 EB	87	0.3122
## MCARTHUR AVE	86	0.3086
## CATHERINE ST	85	0.3050
## CEDARVIEW RD	84	0.3014
## EARL ARMSTRONG RD	82	0.2943
## AIRPORT PKWY	81	0.2907
## RIVERSIDE DR NB	78	0.2799

## COVENTRY RD	76	0.2727
## CASTLEFRANK RD	74	0.2655
## BAY ST	71	0.2548
## RUSSELL RD	69	0.2476
## INDUSTRIAL AVE/INNES RD	65	0.2333
## ANDERSON RD	64	0.2297
## CARLING AVE WB	64	0.2297
## METCALFE ST	63	0.2261
## O'CONNOR ST	62	0.2225
## HUNTMAR DR	61	0.2189
## LEITRIM RD	61	0.2189
## MAITLAND AVE	61	0.2189
## TRIM RD	61	0.2189
## HOLLAND AVE	60	0.2153
## LAURIER AVE	60	0.2153
## LEES AVE	58	0.2081
## STITTSVILLE MAIN ST	58	0.2081
## CAMPEAU DR/HWY 417 MARCH IC138R63	57	0.2045
## RIVER RD	57	0.2045
## CUMMINGS AVE	56	0.2010
## DUNROBIN RD	55	0.1974
## SOMERSET ST W	55	0.1974
## SMYTH RD	54	0.1938
## BYRON AVE	53	0.1902
## VANIER PKWY/CRICHTON ST	51	0.1830
## PINCREST RD	50	0.1794
## KANATA AVE	49	0.1758
## CHARLEMAGNE BLVD	48	0.1722
## MERIVALE RD/LOTTA AVE	48	0.1722
## ORLEANS BLVD	48	0.1722
## BEECHWOOD AVE	47	0.1687
## CATHERINE ST/HWY 417 O'CONN IC119BR76	47	0.1687
## (Other)	10198	36.5953
##		
## -----		
## CHECKING FEATURE:STREET1		
## DATA:All 2016-Only 2016-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET1		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----

## HIGHWAY 417	1900	7.3478
## BANK ST	962	3.7203
## CARLING AVE	532	2.0574
## INNES RD	484	1.8718
## BASELINE RD	471	1.8215
## BRONSON AVE	430	1.6629
## MONTREAL RD	414	1.6011
## PRINCE OF WALES DR	356	1.3767
## GREENBANK RD	347	1.3419
## REGIONAL ROAD 174	345	1.3342
## MERIVALE RD	312	1.2066
## ST. LAURENT BLVD	298	1.1524
## HUNT CLUB RD	287	1.1099
## RICHMOND RD	278	1.0751
## ST. JOSEPH BLVD	277	1.0712
## FALLOWFIELD RD	270	1.0442
## WOODROFFE AVE	269	1.0403
## RIVERSIDE DR	246	0.9513
## EAGLESON RD	212	0.8199
## KING EDWARD AVE	206	0.7967
## TENTH LINE RD	200	0.7735
## MARCH RD	191	0.7386
## BLAIR RD	188	0.7270
## WEST HUNT CLUB RD	180	0.6961
## INDUSTRIAL AVE	178	0.6884
## CYRVILLE RD	157	0.6072
## ALBERT ST	155	0.5994
## TERRY FOX DR	153	0.5917
## HAZELDEAN RD	143	0.5530
## CONROY RD	141	0.5453
## ELGIN ST	140	0.5414
## CARP RD	138	0.5337
## WALKLEY RD	138	0.5337
## ALBION RD	137	0.5298
## FISHER AVE	137	0.5298
## STRANDHERD DR	130	0.5027
## MOODIE DR	128	0.4950
## HERON RD	127	0.4911
## MEADOWLANDS DR	124	0.4795
## ALTA VISTA DR	123	0.4757
## DONALD ST	119	0.4602
## HAWTHORNE RD	118	0.4563
## AVIATION PKWY	112	0.4331
## GLADSTONE AVE	106	0.4099
## JEANNE D'ARC BLVD	105	0.4061
## PARKDALE AVE	103	0.3983
## RIVERSIDE DR NB	103	0.3983
## OGILVIE RD	102	0.3945

## MCARTHUR AVE	100	0.3867
## COLONEL BY DR	98	0.3790
## ISLAND PARK DR	98	0.3790
## CATHERINE ST	93	0.3597
## HIGHWAY 416	91	0.3519
## CAMPEAU DR	89	0.3442
## LAURIER AVE	88	0.3403
## BESSERER ST	83	0.3210
## BELFAST RD	82	0.3171
## CARLING AVE WB	81	0.3132
## BOOTH ST	79	0.3055
## REGIONAL ROAD 174 EB	77	0.2978
## SMYTH RD	76	0.2939
## CUMBERLAND ST	75	0.2900
## LEITRIM RD	72	0.2784
## DALHOUSIE ST	71	0.2746
## KENT ST	71	0.2746
## OTTAWA RIVER PKWY	71	0.2746
## COVENTRY RD	69	0.2668
## O'CONNOR ST	69	0.2668
## CEDARVIEW RD	68	0.2630
## RUSSELL RD	68	0.2630
## CASTLEFRANK RD	66	0.2552
## MAITLAND AVE	66	0.2552
## ANDERSON RD	65	0.2514
## JOCKVALE RD	65	0.2514
## SOMERSET ST W	65	0.2514
## RIDEAU ST	64	0.2475
## HUNTMAR DR	63	0.2436
## EARL ARMSTRONG RD	60	0.2320
## KIRKWOOD AVE	59	0.2282
## VANIER PKWY/CRICHTON ST	59	0.2282
## CARLING AVE EB	58	0.2243
## DUNROBIN RD	58	0.2243
## ROBERTSON RD	58	0.2243
## HOLLAND AVE	57	0.2204
## KIRKWOOD AVE N	56	0.2166
## ORLEANS BLVD	55	0.2127
## PRESTON ST	55	0.2127
## AIRPORT PKWY	54	0.2088
## TRIM RD	53	0.2050
## CUMMINGS AVE	52	0.2011
## LEMIEUX ST	52	0.2011
## LYON ST	51	0.1972
## BLACKBURN BYPASS	50	0.1934
## LEES AVE	50	0.1934
## MITCH OWENS RD	50	0.1934
## RAMSAYVILLE RD	50	0.1934

```

## BAY ST                      48      0.1856
## RIVER RD                    48      0.1856
## VIEWMOUNT DR                48      0.1856
## (Other)                     9682    37.4430
##
## -----
## CHECKING FEATURE:STREET1
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET1
##
## Feature Value          Counter   Percentage
## -----
## HIGHWAY 417                2523     9.5060
## BANK ST                     917      3.4550
## CARLING AVE                 585      2.2041
## BASELINE RD                  509      1.9178
## INNES RD                     456      1.7181
## GREENBANK RD                 428      1.6126
## BRONSON AVE                  420      1.5825
## MONTREAL RD                  385      1.4506
## MERIVALE RD                  345      1.2999
## PRINCE OF WALES DR            315      1.1868
## FALLOWFIELD RD                 310      1.1680
## WOODROFFE AVE                 309      1.1642
## ST. LAURENT BLVD                291      1.0964
## HUNT CLUB RD                  289      1.0889
## ST. JOSEPH BLVD                 257      0.9683
## RICHMOND RD                   252      0.9495
## EAGLESON RD                   251      0.9457
## RIVERSIDE DR                   248      0.9344
## BLAIR RD                      244      0.9193
## REGIONAL ROAD 174                 225      0.8477
## MARCH RD                      204      0.7686
## TENTH LINE RD                   197      0.7422
## CARP RD                        195      0.7347
## TERRY FOX DR                   194      0.7309
## WEST HUNT CLUB RD                 192      0.7234
## KING EDWARD AVE                 171      0.6443
## ALBERT ST                      162      0.6104
## CYRVILLE RD                     158      0.5953
## INDUSTRIAL AVE                  157      0.5915

```

## HAZELDEAN RD	152	0.5727
## ALBION RD	150	0.5652
## HIGHWAY 416	142	0.5350
## CONROY RD	140	0.5275
## ELGIN ST	138	0.5200
## HAWTHORNE RD	135	0.5086
## BOOTH ST	133	0.5011
## MEADOWLANDS DR	131	0.4936
## STRANDHERD DR	120	0.4521
## DONALD ST	117	0.4408
## ALTA VISTA DR	116	0.4371
## COLONEL BY DR	113	0.4258
## WALKLEY RD	109	0.4107
## BELFAST RD	107	0.4031
## FISHER AVE	106	0.3994
## MOODIE DR	101	0.3805
## GLADSTONE AVE	100	0.3768
## CATHERINE ST	99	0.3730
## EARL ARMSTRONG RD	95	0.3579
## MCARTHUR AVE	94	0.3542
## OTTAWA RIVER PKWY	94	0.3542
## PARKDALE AVE	92	0.3466
## AIRPORT PKWY	89	0.3353
## CASTLEFRANK RD	88	0.3316
## DALY AVE	87	0.3278
## HERON RD	87	0.3278
## LAURIER AVE	87	0.3278
## MITCH OWENS RD	86	0.3240
## OGILVIE RD	86	0.3240
## BESSERER ST	85	0.3203
## AVIATION PKWY	80	0.3014
## KENT ST	79	0.2977
## CEDARVIEW RD	78	0.2939
## ST. JOSEPH BLVD/OLD MONTREAL RD	78	0.2939
## REGIONAL ROAD 174 EB	76	0.2863
## HOLLAND AVE	74	0.2788
## CAMPEAU DR	73	0.2750
## COLONNADE RD	73	0.2750
## JEANNE D'ARC BLVD	72	0.2713
## ROBERTSON RD	71	0.2675
## BLACKBURN BYPASS	66	0.2487
## VIEWMOUNT DR	64	0.2411
## CUMMINGS AVE	62	0.2336
## BYRON AVE	61	0.2298
## COVENTRY RD	61	0.2298
## LEITRIM RD	60	0.2261
## ISLAND PARK DR	59	0.2223
## RUSSELL RD	59	0.2223

```

## INDUSTRIAL AVE/INNES RD      58   0.2185
## VANIER PKWY NB              56   0.2110
## CARLING AVE WB              55   0.2072
## BRIAN COBURN BLVD           54   0.2035
## CAMPEAU DR/HWY 417 MARCH IC138R63 54   0.2035
## RIDEAU ST                   54   0.2035
## CARLING AVE EB              53   0.1997
## CUMBERLAND ST               53   0.1997
## JOCKVALE RD                 53   0.1997
## O'CONNOR ST                 53   0.1997
## DALHOUSIE ST                52   0.1959
## MERIVALE RD/LOTTA AVE       52   0.1959
## ORLEANS BLVD                52   0.1959
## SMYTH RD                     52   0.1959
## TRIM RD                      51   0.1922
## GEORGE ST                   50   0.1884
## RIVERSIDE DR NB              50   0.1884
## WELLINGTON ST                50   0.1884
## ANDERSON RD                 49   0.1846
## BAYSHORE DR                  47   0.1771
## DUNROBIN RD                  47   0.1771
## HUNTMAR DR                   47   0.1771
## (Other)                      9685  36.4907
##
## =====
## FINAL INFO CHECKING FEATURE:STREET1
## ALL DATA...
## =====
## Number of Blank Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv      26605
##                                         25669
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv      27755
##                                         26073
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv      28453
##                                         28502
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv      27900
##                                         27483
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv      27971
##                                         26530
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv      27867
##                                         27292
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv      26541
##                                         25858
##
## 
```

```
## Summary as Factor Feature:  
## Number of Features: 100[1] "TOP 100 FEATURES COUNTERS OF:STREET1"
```

Feature Value	Counter	Percentage
HIGHWAY 417	28217	7.4158
BANK ST	14472	3.8034
BASELINE RD	8555	2.2484
CARLING AVE	8106	2.1304
INNES RD	6338	1.6657
BRONSON AVE	5916	1.5548
MONTREAL RD	5328	1.4003
GREENBANK RD	5191	1.3643
MERIVALE RD	4709	1.2376
ST. LAURENT BLVD	4183	1.0993
PRINCE OF WALES DR	4065	1.0683
HUNT CLUB RD	4026	1.0581
RICHMOND RD	3768	0.9903
FALLOWFIELD RD	3658	0.9614
KING EDWARD AVE	3602	0.9467
WOODROFFE AVE	3486	0.9162
EAGLESON RD	3469	0.9117
BLAIR RD	3226	0.8478
REGIONAL ROAD 174	3092	0.8126
MARCH RD	2839	0.7461
ST. JOSEPH BLVD	2723	0.7156
ALTA VISTA DR	2721	0.7151
RIVERSIDE DR	2569	0.6752
INDUSTRIAL AVE	2469	0.6489
MEADOWLANDS DR	2242	0.5892
JEANNE D'ARC BLVD	2187	0.5748
ALBION RD	2130	0.5598
COLONEL BY DR	2121	0.5574
ELGIN ST	2105	0.5532
ALBERT ST	2094	0.5503
HIGHWAY 416	2058	0.5409
HAZELDEAN RD	2001	0.5259

WALKLEY RD	1984	0.5214
CARP RD	1952	0.5130
WEST HUNT CLUB RD	1931	0.5075
CYRVILLE RD	1905	0.5007
HERON RD	1890	0.4967
LAURIER AVE	1813	0.4765
CATHERINE ST	1745	0.4586
FISHER AVE	1711	0.4497
CONROY RD	1701	0.4470
DONALD ST	1698	0.4463
GLADSTONE AVE	1669	0.4386
RUSSELL RD	1626	0.4273
RIDEAU ST	1608	0.4226
BELFAST RD	1603	0.4213
TENTH LINE RD	1545	0.4060
MCARTHUR AVE	1500	0.3942
HAWTHORNE RD	1496	0.3932
BOOTH ST	1460	0.3837
MOODIE DR	1440	0.3785
COVENTRY RD	1416	0.3721
CAMPEAU DR	1396	0.3669
TERRY FOX DR	1354	0.3558
ISLAND PARK DR	1333	0.3503
REGIONAL RD 174	1298	0.3411
DALHOUSIE ST	1270	0.3338
PARKDALE AVE	1258	0.3306
AIRPORT PKWY	1238	0.3254
KENT ST	1229	0.3230
CARLING AVE WB	1158	0.3043
BEECHWOOD AVE	1154	0.3033
CLYDE AVE	1112	0.2922
LYON ST	1096	0.2880
OGILVIE RD	1079	0.2836
CEDARVIEW RD	1077	0.2830
AVIATION PKWY	1059	0.2783

CASTLEFRANK RD	1033	0.2715
ROBERTSON RD	1021	0.2683
BESSERER ST	982	0.2581
HOLLAND AVE	936	0.2460
STRANDHERD DR	932	0.2449
O'CONNOR ST	931	0.2447
RIVERSIDE DR NB	925	0.2431
CUMBERLAND ST	909	0.2389
PRESTON ST	891	0.2342
BYRON AVE	879	0.2310
KIRKWOOD AVE	874	0.2297
MITCH OWENS RD	871	0.2289
CARLING AVE EB	870	0.2286
CUMMINGS AVE	869	0.2284
ANDERSON RD	826	0.2171
WELLINGTON ST	805	0.2116
BAYSHORE DR	798	0.2097
PINECREST RD	795	0.2089
TRIM RD	783	0.2058
OTTAWA RIVER PKWY	782	0.2055
SMYTH RD	776	0.2039
LANCASTER RD	756	0.1987
REGIONAL RD 174 EB	739	0.1942
MAITLAND AVE	738	0.1940
BAY ST	699	0.1837
SOMERSET ST	689	0.1811
METCALFE ST	685	0.1800
BANTREE ST	680	0.1787
DALY AVE	675	0.1774
DUNROBIN RD	665	0.1748
JOCKVALE RD	654	0.1719
COLONNADE RD	639	0.1679
(Other)	148922	39.1386

30.1 STREET1 = “” (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (STREET1=)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (STREET1=) Percentage ----- ----- -----

31. Street2 (STREET2)

```
##  
## -----  
## CHECKING FEATURE:STREET2  
## DATA:All 2004-Only 2004-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF STREET2  
##  
## Feature Value Counter Percentage  
## -----  
## WOODROFFE AVE 499 1.9440  
## ST. LAURENT BLVD 481 1.8739  
## MERIVALE RD 349 1.3596  
## WALKLEY RD 346 1.3479  
## RIVERSIDE DR 324 1.2622  
## WEST HUNT CLUB RD 295 1.1492  
## RICHMOND RD 290 1.1298  
## OGILVIE RD 273 1.0635  
## MONTREAL RD 262 1.0207  
## BANK ST 251 0.9778  
## CARLING AVE 238 0.9272  
## INNES RD 228 0.8882  
## HUNT CLUB RD 227 0.8843  
## ST. JOSEPH BLVD 207 0.8064  
## GREENBANK RD 195 0.7597  
## HERON RD 194 0.7558  
## RIDEAU ST 184 0.7168  
## WELLINGTON ST 160 0.6233  
## VANIER PKWY 155 0.6038  
## HAZELDEAN RD 152 0.5922  
## MARCH RD 152 0.5922  
## SOMERSET ST 152 0.5922  
## TENTH LINE RD 152 0.5922
```



## PRINCE OF WALES DR	150	0.5844
## HIGHWAY 417	146	0.5688
## EAGLESON RD	123	0.4792
## ISLAND PARK DR	122	0.4753
## JEANNE D'ARC BLVD	122	0.4753
## LAURIER AVE	121	0.4714
## ST. PATRICK ST	118	0.4597
## MAITLAND AVE	109	0.4246
## TERRY FOX DR	106	0.4129
## END	102	0.3974
## MEADOWLANDS DR	102	0.3974
## OTTAWA RIVER PKWY	102	0.3974
## CLYDE AVE	101	0.3935
## SCOTT ST	97	0.3779
## METCALFE ST	94	0.3662
## HWY 417 NICHOLA IC118R67	89	0.3467
## MOODIE DR	87	0.3389
## CUMBERLAND ST	86	0.3350
## SMYTH RD	86	0.3350
## BASELINE RD	84	0.3272
## O'CONNOR ST	84	0.3272
## GLADSTONE AVE	83	0.3233
## HWY 417 NICHOLA IC118R35	82	0.3195
## PRESTON ST	79	0.3078
## BRONSON AVE	78	0.3039
## FISHER AVE	78	0.3039
## HWY 417 BRONSO IC121AR16	78	0.3039
## NAVAHO DR	77	0.3000
## HWY 417 PARKDAL IC122R15	75	0.2922
## ELGIN ST	74	0.2883
## ORLEANS BLVD	74	0.2883
## KENT ST	72	0.2805
## MAIN ST	70	0.2727
## MITCH OWENS RD	70	0.2727
## STRANDHERD DR	70	0.2727
## BLAIR RD RAMP 36	68	0.2649
## KING EDWARD AVE	67	0.2610
## SUNNYSIDE AVE	67	0.2610
## CATHERINE ST	65	0.2532
## HWY 417 METCAL IC119AR75	65	0.2532
## RUSSELL RD	65	0.2532
## ALTA VISTA DR	64	0.2493
## HWY 417 CARLING IC124R67	61	0.2376
## COVENTRY RD	60	0.2337
## NICHOLAS ST	60	0.2337
## BOURASSA ST	59	0.2298
## HWY 417 O'CONN IC119BR76	59	0.2298
## KATIMAVIK RD	59	0.2298

## MURRAY ST	59	0.2298
## SLATER ST	57	0.2221
## UPLANDS DR	57	0.2221
## BELFAST RD	54	0.2104
## DWYER HILL RD	54	0.2104
## HAWTHORNE RD	54	0.2104
## CAHILL DR	53	0.2065
## PARKDALE AVE	53	0.2065
## FALLOWFIELD RD	52	0.2026
## BLAIR RD	51	0.1987
## JOHNSTON RD	51	0.1987
## SUSSEX DR	51	0.1987
## MCARTHUR AVE	49	0.1909
## CRICHTON ST	48	0.1870
## HWY 417 CARLING IC124R65	48	0.1870
## OR174 IC112 RAMP 26	48	0.1870
## PINECREST RD	48	0.1870
## HOG'S BACK RD	47	0.1831
## HWY 417 CARLING IC124R55	47	0.1831
## HWY 417 VANIER IC117R26	47	0.1831
## ISABELLA ST	47	0.1831
## ROBERTSON RD	47	0.1831
## WALLER ST	47	0.1831
## DALHOUSIE ST	46	0.1792
## GEORGE ST	46	0.1792
## INDUSTRIAL AVE	46	0.1792
## KIRKWOOD AVE	46	0.1792
## KIRKWOOD AVE S	46	0.1792
## (Other)	14394	56.0754
##		
## -----		
## CHECKING FEATURE:STREET2		
## DATA:All 2005-Only 2005-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET2		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## WOODROFFE AVE	566	2.1274
## ST. LAURENT BLVD	482	1.8117
## MERIVALE RD	425	1.5974
## WALKLEY RD	320	1.2028

## WEST HUNT CLUB RD	304	1.1426
## RICHMOND RD	302	1.1351
## BANK ST	290	1.0900
## MONTREAL RD	285	1.0712
## OGILVIE RD	283	1.0637
## RIVERSIDE DR	277	1.0412
## HUNT CLUB RD	265	0.9961
## GREENBANK RD	226	0.8495
## RIDEAU ST	221	0.8307
## ST. JOSEPH BLVD	219	0.8232
## INNES RD	209	0.7856
## CARLING AVE	206	0.7743
## PRINCE OF WALES DR	206	0.7743
## HAZELDEAN RD	170	0.6390
## HERON RD	168	0.6315
## WELLINGTON ST	165	0.6202
## VANIER PKWY	163	0.6127
## TENTH LINE RD	161	0.6051
## LAURIER AVE	146	0.5488
## SOMERSET ST	144	0.5413
## KENT ST	132	0.4961
## JEANNE D'ARC BLVD	130	0.4886
## MARCH RD	130	0.4886
## TERRY FOX DR	126	0.4736
## O'CONNOR ST	123	0.4623
## EAGLESON RD	119	0.4473
## ISLAND PARK DR	117	0.4398
## CLYDE AVE	116	0.4360
## HIGHWAY 417	114	0.4285
## MAITLAND AVE	106	0.3984
## SMYTH RD	105	0.3947
## GLADSTONE AVE	100	0.3759
## MOODIE DR	98	0.3684
## BASELINE RD	95	0.3571
## BRONSON AVE	95	0.3571
## HWY 417 NICHOLA IC118R35	94	0.3533
## MEADOWLANDS DR	94	0.3533
## END	91	0.3420
## ST. PATRICK ST	91	0.3420
## NICHOLAS ST	90	0.3383
## SCOTT ST	90	0.3383
## FALLOWFIELD RD	89	0.3345
## HWY 417 PARKDAL IC122R15	86	0.3232
## CUMBERLAND ST	85	0.3195
## ELGIN ST	84	0.3157
## KING EDWARD AVE	84	0.3157
## METCALFE ST	81	0.3045
## RUSSELL RD	81	0.3045

## STRANDHERD DR	78	0.2932
## SUNNYSIDE AVE	78	0.2932
## FISHER AVE	75	0.2819
## ORLEANS BLVD	73	0.2744
## CHURCHILL AVE	72	0.2706
## MITCH OWENS RD	72	0.2706
## INDUSTRIAL AVE	71	0.2669
## HWY 417 CARLING IC124R67	69	0.2593
## KATIMAVIK RD	69	0.2593
## ROBERTSON RD	68	0.2556
## DWYER HILL RD	67	0.2518
## PARKDALE AVE	67	0.2518
## HWY 417 BRONSO IC121AR16	65	0.2443
## BELFAST RD	64	0.2406
## HWY 417 CARLING IC124R55	64	0.2406
## HWY 417 NICHOLA IC118R67	64	0.2406
## BAY ST	63	0.2368
## NAVAHO DR	62	0.2330
## TRIM RD	62	0.2330
## BLAIR RD RAMP 36	61	0.2293
## PRESTON ST	59	0.2218
## VIEWMOUNT DR	59	0.2218
## COLONEL BY DR	58	0.2180
## STITTSVILLE MAIN ST	58	0.2180
## MCARTHUR AVE	57	0.2142
## COLONNADE RD	56	0.2105
## HWY 417 MAITLAN IC126R51	56	0.2105
## SLATER ST	56	0.2105
## BOOTH ST	55	0.2067
## CATHERINE ST	55	0.2067
## KANATA AVE	54	0.2030
## RIVER RD	54	0.2030
## HWY 417 CARLING IC124R76	53	0.1992
## JOHNSTON RD	53	0.1992
## MAIN ST	53	0.1992
## RIVERSIDE DR N	53	0.1992
## HWY 417 METCAL IC119AR75	52	0.1955
## FAIRLAWN AVE	51	0.1917
## UPLANDS DR	51	0.1917
## CRICHTON ST	50	0.1879
## KNOXDALE RD	50	0.1879
## GEORGE ST	49	0.1842
## HWY 417 GREENBA IC129R51	49	0.1842
## BOURASSA ST	48	0.1804
## LYON ST	48	0.1804
## DALHOUSIE ST	47	0.1767
## HWY 417 ANDERSO IC104R61	47	0.1767
## (Other)	14761	55.4821

```
##  
## -----  
## CHECKING FEATURE:STREET2  
## DATA:All 2006-Only 2006-Homologated.csv...  
##  
## Number of Blank Values:0  
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF STREET2  
##  
## Feature Value Counter Percentage  
## -----  
## WOODROFFE AVE 563 2.1593  
## ST. LAURENT BLVD 449 1.7221  
## MERIVALE RD 420 1.6109  
## WALKLEY RD 353 1.3539  
## WEST HUNT CLUB RD 336 1.2887  
## RICHMOND RD 291 1.1161  
## BANK ST 288 1.1046  
## RIVERSIDE DR 280 1.0739  
## INNES RD 265 1.0164  
## HUNT CLUB RD 258 0.9895  
## GREENBANK RD 256 0.9819  
## RIDEAU ST 253 0.9704  
## OGILVIE RD 231 0.8860  
## MONTREAL RD 221 0.8476  
## TENTH LINE RD 208 0.7978  
## CARLING AVE 205 0.7863  
## ST. JOSEPH BLVD 190 0.7287  
## PRINCE OF WALES DR 177 0.6789  
## HERON RD 175 0.6712  
## LAURIER AVE 168 0.6443  
## MARCH RD 155 0.5945  
## VANIER PKWY 155 0.5945  
## TERRY FOX DR 146 0.5600  
## WELLINGTON ST 140 0.5370  
## SOMERSET ST 136 0.5216  
## ST. PATRICK ST 134 0.5139  
## HIGHWAY 417 129 0.4948  
## MAITLAND AVE 125 0.4794  
## METCALFE ST 124 0.4756  
## KENT ST 120 0.4602  
## EAGLESON RD 114 0.4372  
## ISLAND PARK DR 113 0.4334  
## JEANNE D'ARC BLVD 113 0.4334
```

## FALLOWFIELD RD	105	0.4027
## O'CONNOR ST	103	0.3950
## HAZELDEAN RD	102	0.3912
## CLYDE AVE	101	0.3874
## BRONSON AVE	95	0.3644
## SMYTH RD	95	0.3644
## STRANDHERD DR	91	0.3490
## END	90	0.3452
## FISHER AVE	88	0.3375
## BASELINE RD	85	0.3260
## HWY 417 PARKDAL IC122R15	85	0.3260
## CUMBERLAND ST	84	0.3222
## ELGIN ST	82	0.3145
## BLAIR RD RAMP 36	81	0.3107
## NICHOLAS ST	79	0.3030
## RUSSELL RD	79	0.3030
## HWY 417 BRONSO IC121AR16	78	0.2992
## NAVAHO DR	76	0.2915
## MITCH OWENS RD	75	0.2877
## ALTA VISTA DR	74	0.2838
## CATHERINE ST	73	0.2800
## OTTAWA RIVER PKWY	73	0.2800
## HWY 417 CARLING IC124R67	72	0.2761
## KING EDWARD AVE	72	0.2761
## PARKDALE AVE	72	0.2761
## ORLEANS BLVD	70	0.2685
## HWY 417 NICHOLA IC118R35	69	0.2646
## MURRAY ST	68	0.2608
## PRESTON ST	68	0.2608
## SCOTT ST	68	0.2608
## SLATER ST	67	0.2570
## SUNNYSIDE AVE	66	0.2531
## MOODIE DR	64	0.2455
## MEADOWLANDS DR	63	0.2416
## GLADSTONE AVE	62	0.2378
## BAY ST	61	0.2340
## TRIM RD	61	0.2340
## COLONEL BY DR	60	0.2301
## LEITRIM RD	60	0.2301
## QUEEN ST	57	0.2186
## INDUSTRIAL AVE	56	0.2148
## BOOTH ST	55	0.2109
## BOURASSA ST	54	0.2071
## COVENTRY RD	54	0.2071
## JOHNSTON RD	54	0.2071
## HAWTHORNE RD	53	0.2033
## MAIN ST	53	0.2033
## ROBERTSON RD	51	0.1956

## LISA AVE	50	0.1918
## DALHOUSIE ST	49	0.1879
## WALLER ST	49	0.1879
## HWY 417 VANIER IC117R26	48	0.1841
## MCARTHUR AVE	48	0.1841
## COOPER ST	47	0.1803
## HWY 417 CARLING IC124R76	47	0.1803
## HWY 417 RIVERSI IC117R35	47	0.1803
## ALBION RD	46	0.1764
## CAHILL DR	46	0.1764
## CEDARVIEW RD	46	0.1764
## CORDOVA ST	46	0.1764
## FORMER NE/OT BOUNDARY	46	0.1764
## HWY 417 METCAL IC119AR75	46	0.1764
## HWY 417 O'CONN IC119BR76	46	0.1764
## KIRKWOOD AVE N	46	0.1764
## VIEWMOUNT DR	45	0.1726
## CHURCHILL AVE	44	0.1688
## (Other)	14436	55.3676
##		
## -----		
## CHECKING FEATURE:STREET2		
## DATA:All 2007-Only 2007-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET2		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## WOODROFFE AVE	661	2.3816
## ST. LAURENT BLVD	498	1.7943
## MERIVALE RD	384	1.3835
## WEST HUNT CLUB RD	336	1.2106
## WALKLEY RD	332	1.1962
## RIVERSIDE DR	308	1.1097
## INNES RD	291	1.0485
## OGILVIE RD	290	1.0449
## RICHMOND RD	289	1.0413
## HUNT CLUB RD	269	0.9692
## GREENBANK RD	259	0.9332
## BANK ST	227	0.8179
## MONTREAL RD	226	0.8143
## ST. JOSEPH BLVD	226	0.8143

## RIDEAU ST	200	0.7206
## CARLING AVE	195	0.7026
## TENTH LINE RD	186	0.6701
## PRINCE OF WALES DR	185	0.6665
## HERON RD	181	0.6521
## VANIER PKWY	177	0.6377
## LAURIER AVE	165	0.5945
## WELLINGTON ST	162	0.5837
## TERRY FOX DR	153	0.5513
## JEANNE D'ARC BLVD	152	0.5476
## HIGHWAY 417	151	0.5440
## SOMERSET ST	149	0.5368
## EAGLESON RD	144	0.5188
## SMYTH RD	130	0.4684
## MEADOWLANDS DR	129	0.4648
## END	125	0.4504
## METCALFE ST	125	0.4504
## ST. PATRICK ST	124	0.4468
## MARCH RD	118	0.4251
## KENT ST	117	0.4215
## CLYDE AVE	112	0.4035
## GLADSTONE AVE	107	0.3855
## STRANDHERD DR	105	0.3783
## ISLAND PARK DR	103	0.3711
## HAZELDEAN RD	102	0.3675
## BAY ST	96	0.3459
## MCARTHUR AVE	95	0.3423
## BRONSON AVE	91	0.3279
## HWY 417 NICHOLA IC118R35	90	0.3243
## O'CONNOR ST	89	0.3207
## RUSSELL RD	89	0.3207
## FISHER AVE	87	0.3135
## HWY 417 CARLING IC124R55	87	0.3135
## ALTA VISTA DR	82	0.2954
## HWY 417 CARLING IC124R67	79	0.2846
## ROBERTSON RD	77	0.2774
## FALLOWFIELD RD	76	0.2738
## SLATER ST	76	0.2738
## COVENTRY RD	75	0.2702
## KING EDWARD AVE	75	0.2702
## PRESTON ST	74	0.2666
## MAIN ST	73	0.2630
## CHURCHILL AVE	72	0.2594
## HWY 417 NICHOLA IC118R67	72	0.2594
## HWY 417 PARKDAL IC122R16	68	0.2450
## NICHOLAS ST	68	0.2450
## INDUSTRIAL AVE	67	0.2414
## MAITLAND AVE	66	0.2378



## MITCH OWENS RD	65	0.2342
## PARKDALE AVE	65	0.2342
## BASELINE RD	64	0.2306
## HWY 417 BRONSO IC121AR16	64	0.2306
## BOOTH ST	63	0.2270
## HWY 417 PARKDAL IC122R15	63	0.2270
## MURRAY ST	63	0.2270
## COLONEL BY DR	62	0.2234
## KANATA AVE	61	0.2198
## OTTAWA RIVER PKWY	61	0.2198
## BLAIR RD RAMP 36	60	0.2162
## JOCKVALE RD	60	0.2162
## MEADOWBROOK RD	60	0.2162
## ORLEANS BLVD	60	0.2162
## CATHERINE ST	59	0.2126
## JOHNSTON RD	59	0.2126
## LEITRIM RD	58	0.2090
## SUSSEX DR	58	0.2090
## LYON ST	57	0.2054
## NAVAHO DR	57	0.2054
## MOODIE DR	56	0.2018
## HWY 417 BRONSO IC121AR51	55	0.1982
## SCOTT ST	55	0.1982
## CHARLEMAGNE BLVD	54	0.1946
## CUMBERLAND ST	54	0.1946
## HWY 417 GREENBA IC129R51	54	0.1946
## CONROY RD	53	0.1910
## ELGIN ST	53	0.1910
## LABELLE ST	53	0.1910
## ALBION RD	52	0.1874
## DALHOUSIE ST	52	0.1874
## BOURASSA ST	51	0.1838
## HAWTHORNE RD	51	0.1838
## HWY 417 MAITLAN IC126R51	51	0.1838
## LISA AVE	51	0.1838
## HWY 417 METCAL IC119AR75	50	0.1801
## KENT ST (OTTAWA)	50	0.1801
## (Other)	15624	56.2926
##		
## -----		
## CHECKING FEATURE:STREET2		
## DATA:All 2008-Only 2008-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		

```
##
## TOP 100 FEATURES OF STREET2
##
## Feature Value          Counter    Percentage
## -----
## WOODROFFE AVE           615      2.1577
## ST. LAURENT BLVD        538      1.8876
## MERIVALE RD              414      1.4525
## WALKLEY RD              407      1.4280
## WEST HUNT CLUB RD       378      1.3262
## RIVERSIDE DR             370      1.2982
## RICHMOND RD              338      1.1859
## BANK ST                  301      1.0561
## OGILVIE RD               290      1.0175
## HUNT CLUB RD             260      0.9122
## INNES RD                 255      0.8947
## CARLING AVE              243      0.8526
## RIDEAU ST                233      0.8175
## GREENBANK RD              226      0.7929
## HERON RD                 218      0.7649
## MONTREAL RD              213      0.7473
## TENTH LINE RD             209      0.7333
## ST. JOSEPH BLVD          190      0.6666
## VANIER PKWY              185      0.6491
## PRINCE OF WALES DR        173      0.6070
## TERRY FOX DR              172      0.6035
## SOMERSET ST               157      0.5508
## HIGHWAY 417                148      0.5193
## WELLINGTON ST              142      0.4982
## HAZELDEAN RD              137      0.4807
## JEANNE D'ARC BLVD          133      0.4666
## LAURIER AVE               130      0.4561
## STRANDHERD DR              130      0.4561
## END                         126      0.4421
## MAITLAND AVE              125      0.4386
## MARCH RD                  119      0.4175
## ST. PATRICK ST              114      0.4000
## GLADSTONE AVE              112      0.3930
## HWY 417 NICHOLA IC118R35      112      0.3930
## KENT ST                      110      0.3859
## ISLAND PARK DR              108      0.3789
## EAGLESON RD                 107      0.3754
## BRONSON AVE                 103      0.3614
## FALLOWFIELD RD              103      0.3614
## BLAIR RD RAMP 36              101      0.3544
## METCALFE ST                  98      0.3438
## O'CONNOR ST                  98      0.3438
## CLYDE AVE                     92      0.3228
```

## MOODIE DR	92	0.3228
## SMYTH RD	91	0.3193
## MEADOWLANDS DR	90	0.3158
## HWY 417 EAGLESO IC138R25	86	0.3017
## PARKDALE AVE	85	0.2982
## BASELINE RD	84	0.2947
## FISHER AVE	82	0.2877
## RUSSELL RD	79	0.2772
## INDUSTRIAL AVE	78	0.2737
## ELGIN ST	75	0.2631
## HWY 417 BRONSO IC121AR16	75	0.2631
## HWY 417 NICHOLA IC118R67	75	0.2631
## HWY 417 PARKDAL IC122R16	73	0.2561
## HWY 417 CARLING IC124R67	72	0.2526
## MAIN ST	72	0.2526
## NICHOLAS ST	72	0.2526
## HWY 417 VANIER IC117R26	71	0.2491
## SCOTT ST	71	0.2491
## WALLER ST	71	0.2491
## KATIMAVIK RD	68	0.2386
## KING EDWARD AVE	65	0.2281
## CATHERINE ST	64	0.2245
## MITCH OWENS RD	64	0.2245
## MURRAY ST	64	0.2245
## ORLEANS BLVD	63	0.2210
## TRIM RD	63	0.2210
## ALTA VISTA DR	60	0.2105
## BAY ST	60	0.2105
## NAVAHO DR	60	0.2105
## ROBERTSON RD	60	0.2105
## SUNNYSIDE AVE	59	0.2070
## CHARLEMAGNE BLVD	58	0.2035
## CUMBERLAND ST	57	0.2000
## HWY 417 BRONSO IC121AR51	57	0.2000
## HWY 417 METCAL IC119AR75	57	0.2000
## CHURCHILL AVE	56	0.1965
## HAWTHORNE RD	56	0.1965
## HWY 417 MAITLAN IC126R51	56	0.1965
## KNOXDALE RD	55	0.1930
## SUSSEX DR	55	0.1930
## VIEWMOUNT DR	55	0.1930
## HWY 417 PARKDAL IC122R15	54	0.1895
## KANATA AVE	54	0.1895
## BELFAST RD	53	0.1860
## COLONEL BY DR	53	0.1860
## ISABELLA ST	53	0.1860
## LEITRIM RD	52	0.1824
## RICHARDSON SIDE RD	52	0.1824



```
## STITTSVILLE MAIN ST      52      0.1824
## HWY 416 RICHMOND IC75R26 51      0.1789
## HWY 417 MOODIE IC134R26 51      0.1789
## OTTAWA RIVER PKWY        51      0.1789
## GEORGE ST                50      0.1754
## HWY 417 CARLING IC124R55 50      0.1754
## SLATER ST                50      0.1754
## CAHILL DR                49      0.1719
## (Other)                  16088   56.4452
##
## -----
## CHECKING FEATURE:STREET2
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET2
##
## Feature Value          Counter Percentage
## -----
## WOODROFFE AVE          625     2.1966
## ST. LAURENT BLVD       496     1.7432
## MERIVALE RD             477     1.6764
## RICHMOND RD             369     1.2969
## WEST HUNT CLUB RD      332     1.1668
## RIVERSIDE DR            331     1.1633
## INNES RD                309     1.0860
## WALKLEY RD              299     1.0509
## BANK ST                 294     1.0333
## HUNT CLUB RD            293     1.0298
## OGILVIE RD              271     0.9524
## CARLING AVE             247     0.8681
## GREENBANK RD            247     0.8681
## RIDEAU ST               240     0.8435
## ST. JOSEPH BLVD         238     0.8365
## VANIER PKWY              229     0.8048
## PRINCE OF WALES DR      222     0.7802
## MONTREAL RD              216     0.7591
## HERON RD                 213     0.7486
## TENTH LINE RD            212     0.7451
## HIGHWAY 417              209     0.7345
## TERRY FOX DR             170     0.5975
## JEANNE D'ARC BLVD        169     0.5940
## SOMERSET ST              164     0.5764
```

## LAURIER AVE	163	0.5729
## WELLINGTON ST	142	0.4991
## BRONSON AVE	139	0.4885
## MAITLAND AVE	131	0.4604
## MARCH RD	131	0.4604
## CLYDE AVE	123	0.4323
## ST. PATRICK ST	118	0.4147
## STRANDHERD DR	113	0.3971
## HWY 417 BRONSO IC121AR16	111	0.3901
## O'CONNOR ST	111	0.3901
## END	107	0.3761
## HWY 417 NICHOLA IC118R35	107	0.3761
## EAGLESON RD	106	0.3725
## HWY 417 CARLING IC124R67	106	0.3725
## MEADOWLANDS DR	103	0.3620
## KENT ST	102	0.3585
## ISLAND PARK DR	99	0.3479
## SMYTH RD	98	0.3444
## GLADSTONE AVE	97	0.3409
## NICHOLAS ST	96	0.3374
## NAVAHO DR	95	0.3339
## BLAIR RD RAMP 36	93	0.3269
## SUSSEX DR	91	0.3198
## ELGIN ST	90	0.3163
## FISHER AVE	89	0.3128
## FALLOWFIELD RD	88	0.3093
## METCALFE ST	88	0.3093
## ORLEANS BLVD	88	0.3093
## BASELINE RD	87	0.3058
## SCOTT ST	85	0.2987
## MAIN ST	83	0.2917
## CUMBERLAND ST	82	0.2882
## MCARTHUR AVE	79	0.2777
## HWY 417 PARKDAL IC122R15	77	0.2706
## MOODIE DR	77	0.2706
## TRIM RD	77	0.2706
## BAY ST	75	0.2636
## HWY 417 PARKDAL IC122R16	75	0.2636
## INDUSTRIAL AVE	75	0.2636
## COVENTRY RD	74	0.2601
## PRESTON ST	72	0.2530
## PARKDALE AVE	71	0.2495
## HAZELDEAN RD	70	0.2460
## CAHILL DR	68	0.2390
## ROBERTSON RD	68	0.2390
## BOURASSA ST	66	0.2320
## HWY 417 EAGLESO IC138R25	65	0.2284
## ALTA VISTA DR	64	0.2249

## COLONEL BY DR	64	0.2249
## HWY 417 METCAL IC119AR75	64	0.2249
## SLATER ST	63	0.2214
## CRICHTON ST	62	0.2179
## CHURCHILL AVE	61	0.2144
## LANTHIER DR	61	0.2144
## QUEEN ST	61	0.2144
## RUSSELL RD	61	0.2144
## SUNNYSIDE AVE	61	0.2144
## JOHNSTON RD	60	0.2109
## HWY 417 CARLING IC124R65	59	0.2074
## MURRAY ST	59	0.2074
## COLONNADE RD	58	0.2038
## DALHOUSIE ST	58	0.2038
## HWY 417 RIVERSI IC117R35	58	0.2038
## KING EDWARD AVE	57	0.2003
## PINECREST RD	57	0.2003
## HWY 417 NICHOLA IC118R67	56	0.1968
## ALBION RD	55	0.1933
## CATHERINE ST	55	0.1933
## KANATA AVE	55	0.1933
## MITCH OWENS RD	55	0.1933
## BELFAST RD	54	0.1898
## ISABELLA ST	53	0.1863
## UPLANDS DR	52	0.1828
## HWY 417 CARLING IC124R55	51	0.1792
## HWY 417 CARLING IC124R76	51	0.1792
## (Other)	15505	54.4934
##		
## -----		
## CHECKING FEATURE:STREET2		
## DATA:All 2010-Only 2010-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET2		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## WOODROFFE AVE	564	2.0522
## ST. LAURENT BLVD	523	1.9030
## MERIVALE RD	399	1.4518
## WALKLEY RD	364	1.3245
## BANK ST	318	1.1571

## RICHMOND RD	311	1.1316
## INNES RD	298	1.0843
## WEST HUNT CLUB RD	296	1.0770
## RIVERSIDE DR	283	1.0297
## OGILVIE RD	281	1.0225
## HUNT CLUB RD	274	0.9970
## GREENBANK RD	264	0.9606
## ST. JOSEPH BLVD	248	0.9024
## RIDEAU ST	245	0.8915
## MONTREAL RD	239	0.8696
## PRINCE OF WALES DR	236	0.8587
## TENTH LINE RD	222	0.8078
## CARLING AVE	201	0.7314
## TERRY FOX DR	196	0.7132
## HIGHWAY 417	191	0.6950
## HERON RD	169	0.6149
## STRANDHERD DR	167	0.6076
## LAURIER AVE	151	0.5494
## WELLINGTON ST	148	0.5385
## JEANNE D'ARC BLVD	147	0.5349
## VANIER PKWY	147	0.5349
## SOMERSET ST	146	0.5312
## MARCH RD	124	0.4512
## MEADOWLANDS DR	117	0.4257
## KENT ST	116	0.4221
## METCALFE ST	116	0.4221
## GLADSTONE AVE	115	0.4184
## HAZELDEAN RD	114	0.4148
## ISLAND PARK DR	109	0.3966
## SMYTH RD	107	0.3893
## BRONSON AVE	104	0.3784
## RUSSELL RD	102	0.3711
## NICHOLAS ST	99	0.3602
## END	98	0.3566
## FALLOWFIELD RD	98	0.3566
## MAITLAND AVE	95	0.3457
## BLAIR RD RAMP 36	90	0.3275
## CLYDE AVE	88	0.3202
## ELGIN ST	88	0.3202
## PARKDALE AVE	84	0.3056
## HWY 417 NICHOLA IC118R67	83	0.3020
## SLATER ST	83	0.3020
## HAWTHORNE RD	82	0.2984
## MOODIE DR	81	0.2947
## O'CONNOR ST	78	0.2838
## BAY ST	75	0.2729
## CATHERINE ST	75	0.2729
## HWY 417 CARLING IC124R67	75	0.2729

## TRIM RD	75	0.2729
## HWY 417 VANIER IC117R26	74	0.2693
## CUMBERLAND ST	73	0.2656
## INDUSTRIAL AVE	73	0.2656
## SCOTT ST	73	0.2656
## FISHER AVE	71	0.2583
## ST. PATRICK ST	70	0.2547
## JOHNSTON RD	69	0.2511
## LEITRIM RD	69	0.2511
## BATE ISLAND	68	0.2474
## BASELINE RD	67	0.2438
## HWY 417 BRONSO IC121AR16	67	0.2438
## ORLEANS BLVD	66	0.2401
## STITTSVILLE MAIN ST	65	0.2365
## HWY 417 NICHOLA IC118R35	63	0.2292
## SUSSEX DR	63	0.2292
## DALHOUSIE ST	61	0.2220
## HWY 417 CARLING IC124R76	61	0.2220
## PRESTON ST	61	0.2220
## RIVERSIDE DR N	61	0.2220
## HWY 417 PARKDAL IC122R15	60	0.2183
## NAVAHO DR	60	0.2183
## STAR TOP RD	60	0.2183
## HWY 417 BRONSO IC121AR51	59	0.2147
## KANATA AVE	59	0.2147
## MITCH OWENS RD	59	0.2147
## COLONEL BY DR	58	0.2110
## TREMBLAY RD	58	0.2110
## EAGLESON RD	57	0.2074
## KING EDWARD AVE	56	0.2038
## KNOXDALE RD	56	0.2038
## MEADOWBROOK RD	56	0.2038
## COLONNADE RD	55	0.2001
## CRICHTON ST	55	0.2001
## KIRKWOOD AVE N	55	0.2001
## OTTAWA RIVER PKWY	55	0.2001
## MCARTHUR AVE	54	0.1965
## DONALD ST	53	0.1928
## GEORGE ST	53	0.1928
## HWY 417 RIVERSI IC117R35	53	0.1928
## LANTHIER DR	53	0.1928
## VIEWMOUNT DR	53	0.1928
## CHURCHILL AVE	52	0.1892
## HWY 417 METCAL IC119AR75	52	0.1892
## MAIN ST	52	0.1892
## FORMER NE/OT BOUNDARY	51	0.1856
## (Other)	15165	55.1796
##		



```
## -----
## CHECKING FEATURE:STREET2
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET2
##
## Feature Value Counter Percentage
## -----
## WOODROFFE AVE 575 2.0609
## ST. LAURENT BLVD 520 1.8638
## MERIVALE RD 397 1.4229
## RIVERSIDE DR 388 1.3907
## RICHMOND RD 367 1.3154
## WALKLEY RD 367 1.3154
## INNES RD 324 1.1613
## ST. JOSEPH BLVD 312 1.1183
## BANK ST 310 1.1111
## WEST HUNT CLUB RD 297 1.0645
## GREENBANK RD 268 0.9606
## MONTREAL RD 235 0.8423
## CARLING AVE 227 0.8136
## HUNT CLUB RD 224 0.8029
## RIDEAU ST 206 0.7384
## PRINCE OF WALES DR 202 0.7240
## HERON RD 197 0.7061
## OGILVIE RD 196 0.7025
## TENTH LINE RD 189 0.6774
## HIGHWAY 417 188 0.6738
## TERRY FOX DR 187 0.6703
## LAURIER AVE 151 0.5412
## SOMERSET ST 150 0.5376
## STRANDHERD DR 146 0.5233
## VANIER PKWY 137 0.4910
## JEANNE D'ARC BLVD 133 0.4767
## MARCH RD 133 0.4767
## GLADSTONE AVE 132 0.4731
## WELLINGTON ST 132 0.4731
## SMYTH RD 123 0.4409
## BRONSON AVE 119 0.4265
## ISLAND PARK DR 119 0.4265
## HAZELDEAN RD 114 0.4086
## KENT ST 114 0.4086
```

## CLYDE AVE	110	0.3943
## MAITLAND AVE	110	0.3943
## FISHER AVE	109	0.3907
## HWY 417 CARLING IC124R67	108	0.3871
## MEADOWLANDS DR	105	0.3763
## FALLOWFIELD RD	99	0.3548
## END	97	0.3477
## EAGLESON RD	94	0.3369
## O'CONNOR ST	93	0.3333
## METCALFE ST	90	0.3226
## PRESTON ST	89	0.3190
## HWY 417 NICHOLA IC118R67	87	0.3118
## PARKDALE AVE	84	0.3011
## SCOTT ST	83	0.2975
## TRIM RD	80	0.2867
## BASELINE RD	79	0.2832
## SLATER ST	79	0.2832
## RUSSELL RD	78	0.2796
## OTTAWA RIVER PKWY	77	0.2760
## HWY 417 BRONSO IC121AR16	76	0.2724
## HWY 417 NICHOLA IC118R35	76	0.2724
## NICHOLAS ST	76	0.2724
## BLAIR RD RAMP 36	74	0.2652
## NAVAHO DR	73	0.2616
## HAWTHORNE RD	72	0.2581
## HWY 417 VANIER IC117R26	72	0.2581
## MCARTHUR AVE	72	0.2581
## BAY ST	71	0.2545
## ELGIN ST	71	0.2545
## KANATA AVE	70	0.2509
## STITTSVILLE MAIN ST	69	0.2473
## CEDARVIEW RD	68	0.2437
## MITCH OWENS RD	68	0.2437
## HWY 417 PARKDAL IC122R15	66	0.2366
## CATHERINE ST	65	0.2330
## CRICHTON ST	65	0.2330
## CUMBERLAND ST	65	0.2330
## ST. PATRICK ST	65	0.2330
## ALTA VISTA DR	64	0.2294
## HWY 417 CARLING IC124R55	64	0.2294
## SUNNYSIDE AVE	62	0.2222
## WALLER ST	61	0.2186
## COLONEL BY DR	60	0.2151
## INDUSTRIAL AVE	59	0.2115
## LANTHIER DR	58	0.2079
## KING EDWARD AVE	57	0.2043
## VIEWMOUNT DR	57	0.2043
## ORLEANS BLVD	56	0.2007



```
## BOURASSA ST           54    0.1935
## LEITRIM RD            54    0.1935
## TREMBLAY RD           54    0.1935
## HWY 417 CARLING IC124R76 53    0.1900
## HWY 417 MAITLAN IC126R51 53    0.1900
## JOCKVALE RD           53    0.1900
## MOODIE DR              53    0.1900
## HWY 417 GREENBA IC129R51 52    0.1864
## OR174 IC112 RAMP 26     52    0.1864
## QUEEN ST                52    0.1864
## COVENTRY RD             51    0.1828
## HWY 417 METCAL IC119AR75 51    0.1828
## MAIN ST                 51    0.1828
## HWY 417 PARKDAL IC122R16 50    0.1792
## MICHAEL COWPLAND DR      50    0.1792
## MURRAY ST                49    0.1756
## SOLANDT RD               49    0.1756
## (Other)                  15457 55.4014
##
## -----
## CHECKING FEATURE:STREET2
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET2
##
## Feature Value          Counter   Percentage
## -----
## WOODROFFE AVE          556      2.0957
## ST. LAURENT BLVD        476      1.7942
## MERIVALE RD              386      1.4550
## INNES RD                 353      1.3306
## WALKLEY RD               343      1.2929
## RIVERSIDE DR              318      1.1986
## WEST HUNT CLUB RD        311      1.1723
## ST. JOSEPH BLVD          297      1.1195
## RICHMOND RD               278      1.0479
## HUNT CLUB RD              273      1.0290
## BANK ST                  256      0.9649
## RIDEAU ST                 250      0.9423
## GREENBANK RD              247      0.9310
## OGILVIE RD                 237      0.8933
## PRINCE OF WALES DR         236      0.8896
```



## CARLING AVE	233	0.8783
## MONTREAL RD	233	0.8783
## TERRY FOX DR	226	0.8519
## TENTH LINE RD	211	0.7953
## HERON RD	179	0.6747
## SOMERSET ST	176	0.6634
## VANIER PKWY	168	0.6332
## WELLINGTON ST	168	0.6332
## JEANNE D'ARC BLVD	166	0.6257
## HIGHWAY 417	163	0.6144
## STRANDHERD DR	147	0.5541
## LAURIER AVE	139	0.5239
## MAITLAND AVE	130	0.4900
## MARCH RD	130	0.4900
## HAZELDEAN RD	128	0.4825
## FALLOWFIELD RD	125	0.4712
## KENT ST	120	0.4523
## CLYDE AVE	111	0.4184
## END	109	0.4109
## ISLAND PARK DR	107	0.4033
## SMYTH RD	103	0.3882
## CUMBERLAND ST	91	0.3430
## METCALFE ST	91	0.3430
## TRIM RD	90	0.3392
## HWY 417 NICHOLA IC118R35	89	0.3355
## INDUSTRIAL AVE	89	0.3355
## FISHER AVE	88	0.3317
## EAGLESON RD	87	0.3279
## ELGIN ST	86	0.3242
## MOODIE DR	86	0.3242
## MITCH OWENS RD	85	0.3204
## BASELINE RD	83	0.3129
## HWY 417 NICHOLA IC118R67	81	0.3053
## HWY 417 CARLING IC124R67	80	0.3015
## PARKDALE AVE	79	0.2978
## BRONSON AVE	77	0.2902
## MAIN ST	75	0.2827
## O'CONNOR ST	75	0.2827
## RUSSELL RD	73	0.2752
## BLAIR RD RAMP 36	70	0.2639
## MCARTHUR AVE	69	0.2601
## NICHOLAS ST	69	0.2601
## ORLEANS BLVD	68	0.2563
## GLADSTONE AVE	67	0.2525
## NAVAHO DR	67	0.2525
## CORDOVA ST	62	0.2337
## COVENTRY RD	61	0.2299
## HWY 417 VANIER IC117R26	61	0.2299

## BAY ST	60	0.2262
## SCOTT ST	59	0.2224
## ST. PATRICK ST	59	0.2224
## DALHOUSIE ST	58	0.2186
## HWY 417 CARLING IC124R76	58	0.2186
## LEITRIM RD	58	0.2186
## JOHNSTON RD	57	0.2149
## PRESTON ST	57	0.2149
## SLATER ST	56	0.2111
## GEORGE ST	55	0.2073
## HWY 417 METCAL IC119AR75	55	0.2073
## KING EDWARD AVE	55	0.2073
## MEADOWLANDS DR	55	0.2073
## MURRAY ST	55	0.2073
## CRICHTON ST	54	0.2035
## HWY 417 BRONSO IC121AR16	54	0.2035
## HWY 417 MAITLAN IC126R51	53	0.1998
## KATIMAVIK RD	53	0.1998
## STITTSVILLE MAIN ST	53	0.1998
## SUSSEX DR	52	0.1960
## HWY 417 CARLING IC124R55	51	0.1922
## OR174 IC112 RAMP 26	51	0.1922
## UPLANDS DR	51	0.1922
## BOOTH ST	50	0.1885
## KIRKWOOD AVE N	49	0.1847
## CATHERINE ST	48	0.1809
## FOXFIELD DR	48	0.1809
## RICHARDSON SIDE RD	48	0.1809
## BLAIR RD	47	0.1772
## FIFTH AVE	47	0.1772
## HWY 417 GREENBA IC129R51	46	0.1734
## HWY 417 PARKDAL IC122R15	46	0.1734
## KANATA AVE	46	0.1734
## OTTAWA RIVER PKWY	46	0.1734
## QUEEN ST	46	0.1734
## ROBERTSON RD	46	0.1734
## (Other)	14460	54.5043
##		
## -----		
## CHECKING FEATURE:STREET2		
## DATA:All 2013-Only 2013-Homologated.csv...		
##		
## Number of Blank Values:0		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		

```
## TOP 100 FEATURES OF STREET2
##
## Feature Value          Counter    Percentage
## -----
## WOODROFFE AVE           581      2.0772
## ST. LAURENT BLVD        462      1.6517
## MERIVALE RD              441      1.5766
## WEST HUNT CLUB RD       405      1.4479
## WALKLEY RD               388      1.3872
## BANK ST                  337      1.2048
## INNES RD                 315      1.1262
## RIVERSIDE DR             300      1.0725
## RICHMOND RD              292      1.0439
## HUNT CLUB RD             290      1.0368
## TERRY FOX DR             284      1.0153
## ST. JOSEPH BLVD          262      0.9367
## GREENBANK RD              251      0.8974
## OGILVIE RD                246      0.8795
## CARLING AVE              234      0.8366
## MONTREAL RD               234      0.8366
## PRINCE OF WALES DR        221      0.7901
## HIGHWAY 417                 215      0.7687
## WELLINGTON ST              188      0.6721
## HERON RD                  185      0.6614
## VANIER PKWY                174      0.6221
## TENTH LINE RD              173      0.6185
## HWY 417 NICHOLA IC118R35     157      0.5613
## MARCH RD                  157      0.5613
## RIDEAU ST                  156      0.5577
## SOMERSET ST                 153      0.5470
## LAURIER AVE                 151      0.5398
## KENT ST                      142      0.5077
## STRANDHERD DR                141      0.5041
## SMYTH RD                     138      0.4934
## BLAIR RD RAMP 36              133      0.4755
## FALLOWFIELD RD                133      0.4755
## HWY 417 NICHOLA IC118R67     126      0.4505
## EAGLESON RD                  122      0.4362
## JEANNE D'ARC BLVD            119      0.4254
## MAITLAND AVE                  116      0.4147
## HAZELDEAN RD                  115      0.4111
## HWY 417 PARKDAL IC122R15     115      0.4111
## END                           111      0.3968
## CLYDE AVE                     110      0.3933
## BASELINE RD                   109      0.3897
## SLATER ST                      109      0.3897
## HWY 417 VANIER IC117R26       108      0.3861
## FISHER AVE                     101      0.3611
```

## GLADSTONE AVE	97	0.3468
## BRONSON AVE	92	0.3289
## METCALFE ST	89	0.3182
## MITCH OWENS RD	88	0.3146
## ELGIN ST	87	0.3110
## PRESTON ST	85	0.3039
## RUSSELL RD	84	0.3003
## SCOTT ST	84	0.3003
## ISLAND PARK DR	82	0.2932
## HWY 417 CARLING IC124R67	80	0.2860
## HWY 417 BRONSO IC121AR16	79	0.2824
## ORLEANS BLVD	77	0.2753
## TRIM RD	77	0.2753
## COVENTRY RD	76	0.2717
## HWY 417 PARKDAL IC122R16	73	0.2610
## O'CONNOR ST	73	0.2610
## ROBERTSON RD	73	0.2610
## HWY 417 RIVERSI IC117R35	71	0.2538
## NICHOLAS ST	69	0.2467
## HAWTHORNE RD	68	0.2431
## MEADOWLANDS DR	68	0.2431
## HWY 417 CARLING IC124R55	66	0.2360
## SUNNYSIDE AVE	66	0.2360
## MAIN ST	65	0.2324
## CATHERINE ST	64	0.2288
## HWY 417 BRONSO IC121AR51	64	0.2288
## INDUSTRIAL AVE	64	0.2288
## LEITRIM RD	64	0.2288
## ALTA VISTA DR	63	0.2252
## CAHILL DR	63	0.2252
## NEIGHBORHOOD WAY	63	0.2252
## ST. PATRICK ST	62	0.2217
## BAY ST	61	0.2181
## MURRAY ST	60	0.2145
## ROCHESTER ST	60	0.2145
## STITTSVILLE MAIN ST	60	0.2145
## OTTAWA RIVER PKWY	59	0.2109
## MOODIE DR	58	0.2074
## CUMBERLAND ST	57	0.2038
## FIFTH AVE	57	0.2038
## COLONEL BY DR	56	0.2002
## LYON ST	56	0.2002
## OR174 IC112 RAMP 26	55	0.1966
## VIEWMOUNT DR	55	0.1966
## WALLER ST	55	0.1966
## BOOTH ST	54	0.1931
## SUSSEX DR	54	0.1931
## NAVAHO DR	53	0.1895



```
## BOURASSA ST           52    0.1859
## CRICHTON ST          52    0.1859
## HWY 417 CARLING IC124R76 52    0.1859
## FARLANE BLVD          51    0.1823
## KING EDWARD AVE      51    0.1823
## MCARTHUR AVE         51    0.1823
## PARKDALE AVE          51    0.1823
## (Other)                15025 53.7163
##
## -----
## CHECKING FEATURE:STREET2
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:165
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET2
##
## Feature Value          Counter   Percentage
## -----
## HIGHWAY 417              165     0.6046
## TURN LANE                 160     0.5863
## BANK ST                   154     0.5643
## JEANNE D'ARC BLVD (0012421) 133     0.4873
## HWY417 IC118 RAMP57        129     0.4727
## HWY417 IC118 RAMP35        114     0.4177
## RAMP                      111     0.4067
## HWY417 IC117 RAMP51        96      0.3518
## WOODROFFE AVE (0000576)    91      0.3334
## RIVERSIDE DR               87      0.3188
## RIVERSIDE DR (0002237)      86      0.3151
## TRANSIT                    85      0.3114
## WOODROFFE AVE (0002225)    84      0.3078
## WEST HUNT CLUB RD (0000567) 79      0.2895
## HWY417 IC117 RAMP26        78      0.2858
## WEST HUNT CLUB RD          77      0.2821
## TO BE DETERMINED          73      0.2675
## PALLADIUM DR/KATIMAVIK RD (0011858) 72      0.2638
## RIVERSIDE DR (0011905)       72      0.2638
## ST. LAURENT BLVD (0002203) 72      0.2638
## HWY417 IC126 RAMP61         69      0.2528
## TENTH LINE RD (0004633)      69      0.2528
## MARCH RD (0009710)          68      0.2492
## GREENBANK RD (0000549)       67      0.2455
```

## COVENTRY RD/OGILVIE RD (0002151)	66	0.2418
## RUSSELL RD	66	0.2418
## STRANDHERD DR (0005563)	66	0.2418
## WALKLEY RD (0002618)	65	0.2382
## INDUSTRIAL AVE	63	0.2308
## SMYTH RD (0011353)	62	0.2272
## WEST HUNT CLUB RD (0000584)	61	0.2235
## HWY417 IC117 RAMP61	60	0.2198
## HWY417 IC127 RAMP63	58	0.2125
## WOODROFFE AVE	57	0.2089
## WALKLEY RD (0011423)	56	0.2052
## WEST HUNT CLUB RD (0005167)	54	0.1979
## BEECHWOOD AVE/ST. PA (0001604)	53	0.1942
## HWY417 IC115 RAMP36	53	0.1942
## MERIVALE RD	53	0.1942
## MERIVALE RD (0000625)	53	0.1942
## VANIER PKWY (0004630)	53	0.1942
## HERON RD (0002236)	52	0.1905
## TUNNEY'S PASTURE/REMIC RAPIDS ENT	52	0.1905
## WELLINGTON ST (0002388)	52	0.1905
## WOODROFFE AVE (0000095)	52	0.1905
## CLYDE AVE (0002343)	51	0.1869
## HWY417 IC117 RAMP36	51	0.1869
## HWY417 IC124 RAMP76	51	0.1869
## INNES RD	51	0.1869
## CARLING AVE	50	0.1832
## HWY417 IC119A RAMP75	50	0.1832
## WOODROFFE AVE (0010372)	50	0.1832
## ST. LAURENT BLVD (0002604)	49	0.1795
## TREMBLAY RD/HWY417 IC117 RAMP52 (0010790)	48	0.1759
## HUNT CLUB RD (0007651)	47	0.1722
## QUIGLEY HILL RD	47	0.1722
## ZZ COLLISION AT STOP CONTROL (9900003)	47	0.1722
## FALLOWFIELD RD	46	0.1685
## OGILVIE RD (0004114)	46	0.1685
## SUNNYSIDE AVE/UNIVERSITY RD - CA (0007209)	46	0.1685
## OR174 IC109 RAMP55	45	0.1649
## HUNT CLUB RD (0002119)	44	0.1612
## HWY 417 IC129 RAMP57/IRIS ST (0009073)	44	0.1612
## HWY417 IC122 RAMP51	44	0.1612
## JEANNE D'ARC BLVD/MER BLEUE RD (0012475)	44	0.1612
## KIRKWOOD AVE S (0002209)	44	0.1612
## KNOXDALE RD/MEDHURST DR (0000519)	44	0.1612
## METCALFE ST	44	0.1612
## REGIONAL ROAD 174	44	0.1612
## BERRIGAN DR/WESSEX RD (0004726)	43	0.1576
## BRONSON AVE (0002240)	43	0.1576
## CATHERINE ST/RAYMOND ST (0007198)	43	0.1576

## HAZELDEAN RD/ROBERTSON RD (0002715)	43	0.1576
## KENT ST	43	0.1576
## KING EDWARD AVE	43	0.1576
## NICHOLAS ST (0010711)	43	0.1576
## ST. LAURENT BLVD (0008630)	43	0.1576
## CLEOPATRA DR/LANCELOT DR (0000114)	42	0.1539
## HWY417 IC118 RAMP67	42	0.1539
## ST. LAURENT BLVD	42	0.1539
## CHARLEMAGNE BLVD S/DES EPINETTE (0003686)	41	0.1502
## HWY417 IC117 RAMP25	41	0.1502
## HWY417 IC121B RAMP51	41	0.1502
## SUSSEX DR	41	0.1502
## TERRY FOX DR (0003682)	41	0.1502
## GREENBANK RD (0002357)	40	0.1466
## HERON RD	40	0.1466
## HOLLY ACRES RD/NANAIMO DR (0001068)	40	0.1466
## ORLEANS BLVD S (0004154)	40	0.1466
## TERRY FOX DR (0008211)	40	0.1466
## FISHER AVE (0002346)	39	0.1429
## MARCH RD	39	0.1429
## O'CONNOR ST	39	0.1429
## VANIER PKWY (0004626)	39	0.1429
## ISLAND PARK DR (0002127)	38	0.1392
## MERIVALE RD (0001528)	38	0.1392
## MONTREAL RD (0008799)	38	0.1392
## HAZELDEAN RD (0000086)	37	0.1356
## (Other)	21400	78.4113

##

CHECKING FEATURE:STREET2

DATA:All 2015-Only 2015-Homologated.csv...

##

Number of Blank Values:4

##

Summary as Factor Feature:

##

Number of Features: 100

##

TOP 100 FEATURES OF STREET2

##

## Feature Value	Counter	Percentage
## HIGHWAY 417	129	0.4629
## RIVERSIDE DR (0002237)	125	0.4486
## RAMP	119	0.4270
## JEANNE D'ARC BLVD (0012421)	108	0.3876
## BANK ST	104	0.3732
## TENTH LINE RD (0004633)	100	0.3588

## WEST HUNT CLUB RD	100	0.3588
## TURN LANE	86	0.3086
## RIVERSIDE DR (0011905)	81	0.2907
## COVENTRY RD/OGILVIE RD (0002151)	79	0.2835
## WEST HUNT CLUB RD (0000567)	79	0.2835
## TRANSIT	74	0.2655
## ST. LAURENT BLVD (0008630)	73	0.2620
## HERON RD (0002155)	72	0.2584
## HWY417 IC118 RAMP57	70	0.2512
## INNES RD (0004165)	70	0.2512
## WOODROFFE AVE (0002225)	70	0.2512
## HUNT CLUB RD (0002119)	67	0.2404
## TREMBLAY RD/HWY417 IC117 RAMP52 (0010790)	67	0.2404
## ST. LAURENT BLVD (0007658)	66	0.2368
## HWY417 IC117 RAMP51	65	0.2333
## ST. LAURENT BLVD (0002203)	65	0.2333
## TO BE DETERMINED	63	0.2261
## CARLING AVE	62	0.2225
## WELLINGTON ST (0002388)	62	0.2225
## HUNT CLUB RD (0007651)	61	0.2189
## MERIVALE RD (0000625)	61	0.2189
## METCALFE ST	61	0.2189
## HWY417 IC113 RAMP65	60	0.2153
## HWY417 IC118 RAMP67	60	0.2153
## SMYTH RD (0011353)	59	0.2117
## HWY417 IC124 RAMP76	58	0.2081
## RIVERSIDE DR	58	0.2081
## MARCH RD (0009710)	57	0.2045
## OGILVIE RD (0004120)	56	0.2010
## RIVERSIDE DR N (0010778)	55	0.1974
## CLEOPATRA DR/LANCELOT DR (0000114)	54	0.1938
## MERIVALE RD	54	0.1938
## REGIONAL RD 174 N/OR174 IC112 RAMP61 (0003617)	54	0.1938
## WOODROFFE AVE	54	0.1938
## HUNT CLUB RD (0002257)	53	0.1902
## MONTREAL RD	53	0.1902
## CHARLEMAGNE BLVD N/TOMPKINS AV (0009222)	52	0.1866
## HWY417 IC127 RAMP25	52	0.1866
## INNES RD (0009352)	52	0.1866
## ST. LAURENT BLVD (0002604)	52	0.1866
## TENTH LINE RD (0009163)	52	0.1866
## BEECHWOOD AVE/ST. PA (0001604)	51	0.1830
## CLYDE AVE	51	0.1830
## HERON RD (0002236)	51	0.1830
## INDUSTRIAL AVE	51	0.1830
## PALLADIUM DR/KATIMAVIK RD (0011858)	51	0.1830
## WOODROFFE AVE (0010372)	51	0.1830
## RIDEAU ST (0002121)	50	0.1794

## SUNNYSIDE AVE/UNIVERSITY RD - CA (0007209)	50	0.1794
## TERRY FOX DR (0003682)	50	0.1794
## WALKLEY RD (0007653)	50	0.1794
## GREENBANK RD (0002357)	49	0.1758
## LAURIER AVE (0002232)	49	0.1758
## CLYDE AVE (0001112)	48	0.1722
## HWY417 IC117 RAMP61	48	0.1722
## WALLER ST (0008859)	48	0.1722
## FALLOWFIELD RD	47	0.1687
## O'CONN (0001697)	47	0.1687
## CLYDE AVE (0002343)	46	0.1651
## HWY417 IC118 RAMP35	46	0.1651
## VANIER PKWY (0002139)	46	0.1651
## HWY417 IC118 RAMP76	45	0.1615
## HWY417 IC121B RAMP51	45	0.1615
## KIRKWOOD AVE S (0002209)	45	0.1615
## MEADOWLANDS DR/HOG'S BACK (0001629)	45	0.1615
## WOODROFFE AVE (0000576)	45	0.1615
## HWY417 IC126 RAMP61	44	0.1579
## OGILVIE RD (0004114)	44	0.1579
## HWY417 IC122 RAMP51	43	0.1543
## HWY417 IC127 RAMP63	43	0.1543
## KNOXDALE RD/MEDHURST DR (0000519)	43	0.1543
## O'CONNOR ST	43	0.1543
## PRINCE OF WALES DR	43	0.1543
## RUSSELL RD	43	0.1543
## WOODROFFE AVE (0000095)	43	0.1543
## CARLING AVE (0002358)	42	0.1507
## MONTREAL RD (0008799)	42	0.1507
## MOODIE DR	42	0.1507
## ST. LAURENT BLVD (0002021)	42	0.1507
## WEST HUNT CLUB RD (0005167)	42	0.1507
## HWY417 IC124 RAMP57	41	0.1471
## HWY417 IC129 RAMP25	41	0.1471
## NICHOLAS ST (0010711)	41	0.1471
## ST. PATRICK ST (0002714)	41	0.1471
## WALKLEY RD (0011423)	41	0.1471
## WEST HUNT CLUB RD (0000584)	41	0.1471
## CAPILANO DR/WITHROW AVE (0009820)	40	0.1435
## HAZELDEAN RD/ROBERTSON RD (0002715)	40	0.1435
## HWY417 IC117 RAMP26	40	0.1435
## HWY417 IC119B RAMP57	40	0.1435
## RIVERSIDE DR S (0002704)	40	0.1435
## VANIER PKWY (0004630)	40	0.1435
## WALKLEY RD (0002618)	40	0.1435
## (Other)	22253	79.8543
## -----		

```

## CHECKING FEATURE:STREET2
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:8
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET2
##
## Feature Value Counter Percentage
## -----
## WOODROFFE AVE 461 1.7828
## ST. LAURENT BLVD 353 1.3651
## WALKLEY RD 340 1.3149
## WEST HUNT CLUB RD 329 1.2723
## HUNT CLUB RD 298 1.1524
## MERIVALE RD 296 1.1447
## RIVERSIDE DR 276 1.0674
## INNES RD 267 1.0326
## RICHMOND RD 240 0.9281
## TERRY FOX DR 215 0.8315
## VANIER PKWY 210 0.8121
## BANK ST 206 0.7967
## JEANNE D'ARC BLVD 199 0.7696
## OGILVIE RD 199 0.7696
## MONTREAL RD 184 0.7116
## STRANDHERD DR 183 0.7077
## TENTH LINE RD 175 0.6768
## PRINCE OF WALES DR 172 0.6652
## HERON RD 166 0.6420
## MARCH RD 164 0.6342
## CARLING AVE 163 0.6304
## GREENBANK RD 160 0.6188
## HIGHWAY 417 158 0.6110
## ST. JOSEPH BLVD 143 0.5530
## O'CONNOR ST 138 0.5337
## RIDEAU ST 136 0.5259
## METCALFE ST 126 0.4873
## WELLINGTON ST 120 0.4641
## CLYDE AVE 117 0.4525
## SOMERSET ST 115 0.4447
## LAURIER AVE 104 0.4022
## TRIM RD 101 0.3906
## LONGFIELDS DR 100 0.3867
## PRESTON ST 99 0.3829
## BRONSON AVE 98 0.3790

```

## KENT ST	98	0.3790
## MCARTHUR AVE	97	0.3751
## TURN LANE	97	0.3751
## ST. PATRICK ST	96	0.3713
## SLATER ST	91	0.3519
## SCOTT ST	84	0.3249
## RUSSELL RD	83	0.3210
## SUSSEX DR	83	0.3210
## HAZELDEAN RD	82	0.3171
## NICHOLAS ST	82	0.3171
## GLADSTONE AVE	81	0.3132
## RAMP	81	0.3132
## HWY417 IC122 RAMP61	80	0.3094
## MOODIE DR	80	0.3094
## TRANSIT	80	0.3094
## FALLOWFIELD RD	77	0.2978
## ORLEANS BLVD	76	0.2939
## ISLAND PARK DR	75	0.2900
## MURRAY ST	75	0.2900
## INDUSTRIAL AVE	72	0.2784
## FISHER AVE	71	0.2746
## MITCH OWENS RD	69	0.2668
## SMYTH RD	69	0.2668
## HWY417 IC126 RAMP61	67	0.2591
## RIDEAU RD	65	0.2514
## NAVAN RD	63	0.2436
## RIVER RD	62	0.2398
## HWY417 IC127 RAMP25	61	0.2359
## LEITRIM RD	61	0.2359
## MAITLAND AVE	61	0.2359
## MAIN ST	60	0.2320
## WALLER ST	60	0.2320
## BEECHWOOD AVE/ST. PA	59	0.2282
## HWY417 IC127 RAMP35	59	0.2282
## MEADOWLANDS DR	59	0.2282
## ROBERTSON RD	58	0.2243
## DALHOUSIE ST	55	0.2127
## ALTA VISTA DR	53	0.2050
## HWY417 IC129 RAMP25	53	0.2050
## ELGIN ST	52	0.2011
## HWY417 IC123 RAMP62	51	0.1972
## PARKDALE AVE	51	0.1972
## COVENTRY RD	50	0.1934
## DONALD ST	50	0.1934
## HWY417 IC115 RAMP36	50	0.1934
## HWY417 IC117 RAMP51	48	0.1856
## TO BE DETERMINED	48	0.1856
## TREMBLAY RD	48	0.1856

## VIEWMOUNT DR	48	0.1856
## JOHNSTON RD	47	0.1818
## HWY417 IC122 RAMP15	46	0.1779
## ALBION RD	45	0.1740
## YORK ST	45	0.1740
## ALTA VISTA DR/SANDFORD FLEMIN	44	0.1702
## HWY 417 IC129 RAMP57/IRIS ST	44	0.1702
## HWY417 IC124 RAMP67	44	0.1702
## JOCKVALE RD	44	0.1702
## TREMBLAY RD/HWY417 IC117 RAMP52	44	0.1702
## HWY417 IC124 RAMP65	43	0.1663
## HWY417 IC134 RAMP35	43	0.1663
## Continuation of HIGHWAY 417	42	0.1624
## RICHARDSON SIDE RD	42	0.1624
## CHARLEMAGNE BLVD N/TOMPKINS AV	41	0.1586
## COLONEL BY DR	41	0.1586
## (Other)	15061	58.2450
##		
## -----		
## CHECKING FEATURE:STREET2		
## DATA:All 2017-Only 2017-Homologated.csv...		
##		
## Number of Blank Values:5		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREET2		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
## WOODROFFE AVE	527	1.9856
## ST. LAURENT BLVD	411	1.5485
## WEST HUNT CLUB RD	371	1.3978
## MERIVALE RD	368	1.3865
## WALKLEY RD	344	1.2961
## RIVERSIDE DR	286	1.0776
## STRANDHERD DR	285	1.0738
## INNES RD	284	1.0700
## HUNT CLUB RD	265	0.9985
## TERRY FOX DR	238	0.8967
## VANIER PKWY	236	0.8892
## PRINCE OF WALES DR	232	0.8741
## RICHMOND RD	215	0.8101
## MONTREAL RD	207	0.7799
## BANK ST	198	0.7460
## OGILVIE RD	190	0.7159

## HIGHWAY 417	176	0.6631
## TENTH LINE RD	171	0.6443
## MARCH RD	164	0.6179
## JEANNE D'ARC BLVD	163	0.6141
## GREENBANK RD	154	0.5802
## METCALFE ST	154	0.5802
## RIDEAU ST	154	0.5802
## CLYDE AVE	147	0.5539
## CARLING AVE	137	0.5162
## TRIM RD	136	0.5124
## HAZELDEAN RD	121	0.4559
## WELLINGTON ST	121	0.4559
## KENT ST	117	0.4408
## NICHOLAS ST	113	0.4258
## O'CONNOR ST	109	0.4107
## LAURIER AVE	107	0.4031
## SOMERSET ST	107	0.4031
## HWY417 IC124 RAMP65	104	0.3918
## ISLAND PARK DR	103	0.3881
## HWY417 IC119A RAMP75	102	0.3843
## ST. JOSEPH BLVD	101	0.3805
## HERON RD	99	0.3730
## PRESTON ST	99	0.3730
## RIVER RD	95	0.3579
## HWY417 IC122 RAMP61	94	0.3542
## RAMP	94	0.3542
## BRONSON AVE	93	0.3504
## MAITLAND AVE	93	0.3504
## MOODIE DR	92	0.3466
## MCARTHUR AVE	90	0.3391
## GLADSTONE AVE	87	0.3278
## HWY417 IC127 RAMP25	85	0.3203
## MITCH OWENS RD	85	0.3203
## SUSSEX DR	84	0.3165
## TRANSIT	83	0.3127
## HWY417 IC122 RAMP15	81	0.3052
## LONGFIELDS DR	79	0.2977
## MEADOWLANDS DR	78	0.2939
## SCOTT ST	78	0.2939
## SMYTH RD	78	0.2939
## TURN LANE	78	0.2939
## FALLOWFIELD RD	75	0.2826
## HWY417 IC118 RAMP67	75	0.2826
## MAIN ST	73	0.2750
## ST. PATRICK ST	73	0.2750
## SLATER ST	71	0.2675
## ORLEANS BLVD	70	0.2637
## FISHER AVE	68	0.2562

## HWY417 IC126 RAMP61	68	0.2562
## HWY417 IC129 RAMP25	67	0.2524
## LEITRIM RD	67	0.2524
## HWY417 IC124 RAMP67	65	0.2449
## TREMBLAY RD/HWY417 IC117 RAMP52	63	0.2374
## HWY417 IC138 RAMP61	61	0.2298
## HWY417 IC121A RAMP16	59	0.2223
## RIDEAU RD	59	0.2223
## WALLER ST	59	0.2223
## JEANNE D'ARC BLVD/MER BLEUE RD	58	0.2185
## ALTA VISTA DR	57	0.2148
## KNOXDALE RD/MEDHURST DR	57	0.2148
## HWY417 IC126 RAMP25	56	0.2110
## KING EDWARD AVE	55	0.2072
## DALHOUSIE ST	54	0.2035
## NAVAN RD	54	0.2035
## HWY417 IC118 RAMP35	53	0.1997
## MURRAY ST	53	0.1997
## JOHNSTON RD	51	0.1922
## SUNNYSIDE AVE/UNIVERSITY RD - CA	51	0.1922
## COVENTRY RD/OGILVIE RD	50	0.1884
## RICHARDSON SIDE RD	49	0.1846
## ROBERTSON RD	49	0.1846
## UPLANDS DR	47	0.1771
## HAZELDEAN RD/ROBERTSON RD	46	0.1733
## HWY417 IC124 RAMP76	46	0.1733
## REGIONAL RD 174 S/OR174 IC112 RAMP15	46	0.1733
## HWY417 IC123 RAMP62	45	0.1695
## WOODROFFE AVE W	45	0.1695
## BEECHWOOD AVE/ST. PA	44	0.1658
## BOOTH ST	44	0.1658
## ELGIN ST	44	0.1658
## HWY417 IC117 RAMP51	44	0.1658
## HWY417 IC124 RAMP57	44	0.1658
## KIRKWOOD AVE S	44	0.1658
## (Other)	15019	56.5879
##		
## =====		
## FINAL INFO CHECKING FEATURE:STREET2		
## ALL DATA...		
## =====		
##		
## Number of Blank Values:182		
##		
## Summary per Data File:		
## All 2004-Only 2004-Homologated.csv	All 2005-Only 2005-Homologated.csv	
## 25669	26605	
## All 2006-Only 2006-Homologated.csv	All 2007-Only 2007-Homologated.csv	

```

##          26073      27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##          28502      28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##          27483      27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##          26530      27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##          27292      27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##          25858      26541
##
##
## Summary as Factor Feature:
## Number of Features: 100[1] "TOP 100 FEATURES COUNTERS OF:STREET2"

```

Feature Value	Counter	Percentage
WOODROFFE AVE	6904	1.8145
ST. LAURENT BLVD	5764	1.5149
MERIVALE RD	4863	1.2781
WALKLEY RD	4245	1.1156
WEST HUNT CLUB RD	4167	1.0951
RIVERSIDE DR	3885	1.0210
RICHMOND RD	3637	0.9559
BANK ST	3513	0.9233
INNES RD	3482	0.9151
HUNT CLUB RD	3228	0.8484
OGILVIE RD	3024	0.7947
MONTREAL RD	2839	0.7461
GREENBANK RD	2815	0.7398
ST. JOSEPH BLVD	2693	0.7078
CARLING AVE	2641	0.6941
RIDEAU ST	2520	0.6623
PRINCE OF WALES DR	2486	0.6534
TERRY FOX DR	2291	0.6021
TENTH LINE RD	2282	0.5997
HIGHWAY 417	2277	0.5984
HERON RD	2217	0.5827
VANIER PKWY	2174	0.5714
WELLINGTON ST	1799	0.4728

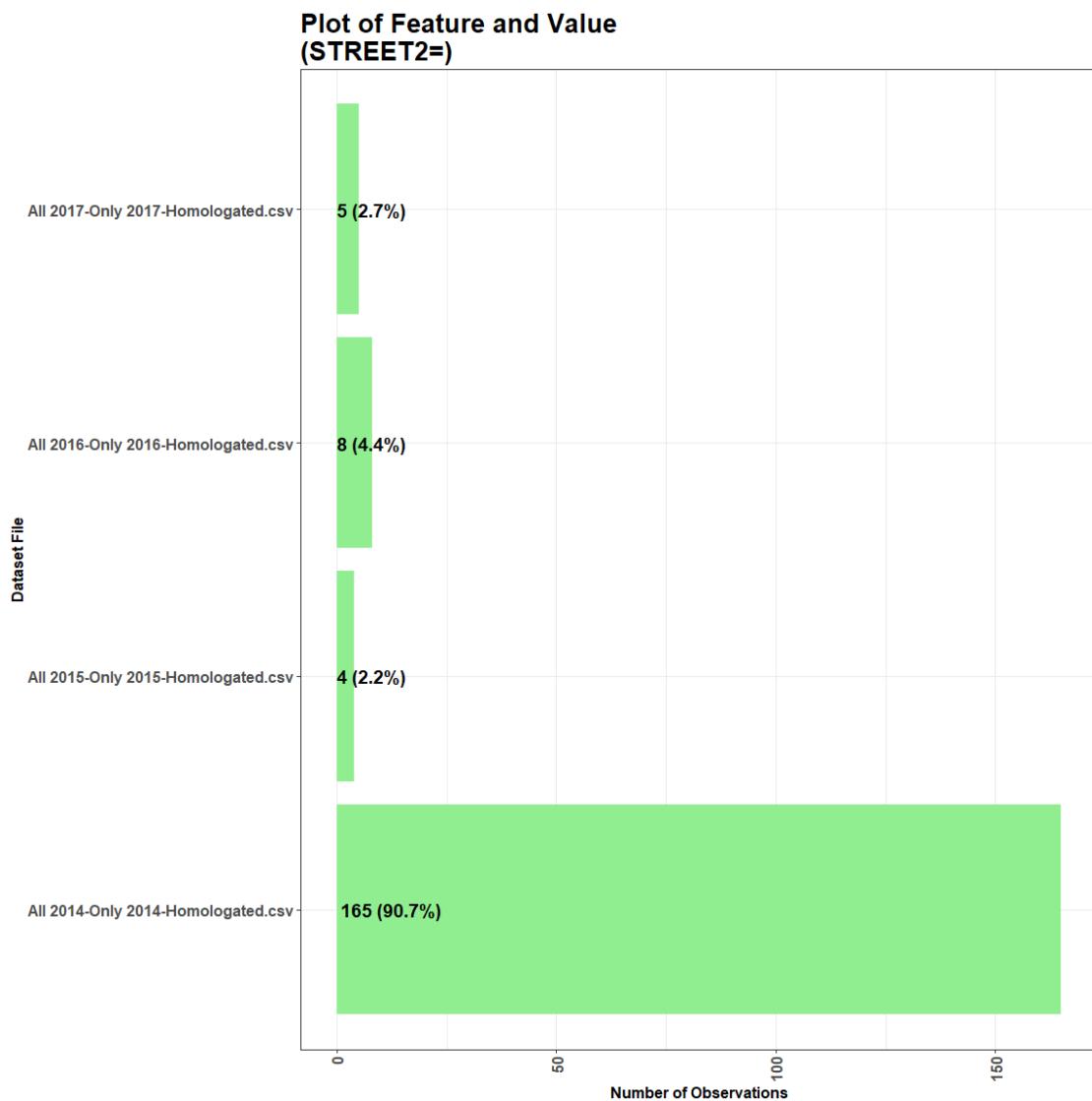
SOMERSET ST	1749	0.4597
JEANNE D'ARC BLVD	1748	0.4594
MARCH RD	1741	0.4576
LAURIER AVE	1696	0.4457
STRANDHERD DR	1681	0.4418
HAZELDEAN RD	1447	0.3803
KENT ST	1441	0.3787
CLYDE AVE	1401	0.3682
METCALFE ST	1381	0.3629
MAITLAND AVE	1280	0.3364
ISLAND PARK DR	1265	0.3325
O'CONNOR ST	1256	0.3301
SMYTH RD	1249	0.3283
BRONSON AVE	1239	0.3256
FALLOWFIELD RD	1213	0.3188
GLADSTONE AVE	1167	0.3067
EAGLESON RD	1160	0.3049
ST. PATRICK ST	1155	0.3035
MEADOWLANDS DR	1081	0.2841
END	1076	0.2828
FISHER AVE	1023	0.2689
RUSSELL RD	1022	0.2686
MOODIE DR	998	0.2623
NICHOLAS ST	997	0.2620
SCOTT ST	947	0.2489
PRESTON ST	944	0.2481
HWY 417 NICHOLA IC118R35	939	0.2468
BASELINE RD	925	0.2431
ELGIN ST	924	0.2428
TRIM RD	912	0.2397
INDUSTRIAL AVE	905	0.2378
SLATER ST	874	0.2297
ORLEANS BLVD	870	0.2286
MITCH OWENS RD	866	0.2276
MCARTHUR AVE	848	0.2229

CUMBERLAND ST	844	0.2218
BLAIR RD RAMP 36	831	0.2184
NAVAHO DR	808	0.2124
HWY 417 CARLING IC124R67	804	0.2113
PARKDALE AVE	804	0.2113
KING EDWARD AVE	803	0.2110
SUSSEX DR	796	0.2092
MAIN ST	795	0.2089
HWY 417 NICHOLA IC118R67	767	0.2016
ALTA VISTA DR	755	0.1984
HWY 417 BRONSO IC121AR16	747	0.1963
BAY ST	746	0.1961
HWY 417 PARKDAL IC122R15	727	0.1911
MURRAY ST	722	0.1898
ROBERTSON RD	703	0.1848
CATHERINE ST	696	0.1829
COVENTRY RD	680	0.1787
COLONEL BY DR	668	0.1756
LEITRIM RD	667	0.1753
OTTAWA RIVER PKWY	656	0.1724
DALHOUSIE ST	647	0.1700
JOHNSTON RD	641	0.1685
SUNNYSIDE AVE	639	0.1679
WALLER ST	633	0.1664
HAWTHORNE RD	607	0.1595
HWY 417 VANIER IC117R26	607	0.1595
KANATA AVE	606	0.1593
STITTSVILLE MAIN ST	602	0.1582
VIEWMOUNT DR	593	0.1558
RIVER RD	580	0.1524
BELFAST RD	570	0.1498
BOOTH ST	567	0.1490
BOURASSA ST	553	0.1453
UPLANDS DR	553	0.1453
CAHILL DR	549	0.1443

CHURCHILL AVE	541	0.1422
HWY 417 METCAL IC119AR75	541	0.1422
CEDARVIEW RD	539	0.1417
HWY 417 PARKDAL IC122R16	538	0.1414
HWY 417 CARLING IC124R55	536	0.1409
ALBION RD	528	0.1388
(Other)	236144	62.0617

31.1 STREET2 = "" (Blank)

```
##  
## ======  
## CHECKING FEATURE AND VALUE (STREET2=)  
##  
## Summary per Data File:  
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv  
## 165 4  
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv  
## 8 5
```



DATASET FILE	COUNTER OF (STREET2=)	Percentage
All 2014-Only 2014-Homologated.csv	165	90.659
All 2015-Only 2015-Homologated.csv	4	2.198
All 2016-Only 2016-Homologated.csv	8	4.396
All 2017-Only 2017-Homologated.csv	5	2.747

32. Street3 (STREET3)

```
##  
## -----  
## CHECKING FEATURE:STREET3  
## DATA:All 2004-Only 2004-Homologated.csv...  
##
```

```

## Number of Blank Values:13165
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREETS
##
## Feature Value          Counter    Percentage
## -----      -----
##                               13165      51.2875
## WOODROFFE AVE            123       0.4792
## HWY 417 PARKDAL IC122R51 109       0.4246
## HWY 417 VANIER IC117R36  94        0.3662
## TRANSITWAY                92        0.3584
## RIVERSIDE DR              90        0.3506
## O'CONNOR ST               86        0.3350
## WEST HUNT CLUB RD         86        0.3350
## WALKLEY RD                82        0.3195
## ST. LAURENT BLVD          75        0.2922
## HWY 417 O'CONN IC119BR57 74        0.2883
## RUSSELL RD                72        0.2805
## HWY 417 RIVERSI IC117R51  66        0.2571
## HWY 417 NICHOLA IC118R57 61        0.2376
## MERIVALE RD               60        0.2337
## REGIONAL ROAD 174          59        0.2298
## SOMERSET ST               59        0.2298
## INNES RD                  58        0.2260
## WELLINGTON ST              58        0.2260
## INDUSTRIAL AVE             57        0.2221
## PRINCE OF WALES DR         57        0.2221
## RICHMOND RD                57        0.2221
## ST. JOSEPH BLVD            57        0.2221
## STAR TOP RD                57        0.2221
## KENT ST                     55        0.2143
## NO NAME                    54        0.2104
## HWY 417 BRONSO IC121AR61  52        0.2026
## LYON ST                     52        0.2026
## SUSSEX DR                  52        0.2026
## HWY 417 ST.LAUR IC115R36  50        0.1948
## HIGHWAY 417                 49        0.1909
## HWY 417 MOODIE IC134R36   49        0.1909
## MOODIE DR                  49        0.1909
## VANIER PKWY                 49        0.1909
## METCALFE ST                 48        0.1870
## TERRY FOX DR                47        0.1831
## REGIONAL RD 174              45        0.1753
## HWY 417 WOODROF IC127R25   44        0.1714

```

## KING EDWARD AVE	44	0.1714
## HWY 417 CARLING IC124R57	43	0.1675
## X-ROYDON PL	43	0.1675
## HWY 417 MOODIE IC134R51	42	0.1636
## OTTAWA RIVER PKWY	42	0.1636
## END	41	0.1597
## IRIS ST	41	0.1597
## N/A	41	0.1597
## HWY 417 O'CONN IC119BR76	40	0.1558
## MEADOWLANDS DR	40	0.1558
## HWY 417 VANIER IC117R61	39	0.1519
## MONTREAL RD	39	0.1519
## TREMBLAY RD	38	0.1480
## HWY 417 PARKDAL IC122R61	37	0.1441
## HWY 417 ROCHE'S IC121BR16	37	0.1441
## HWY 417 MAITLAN IC126R61	36	0.1402
## OGILVIE RD	36	0.1402
## VIEWMOUNT DR	36	0.1402
## HWY 416 ROGERSTE IC49R	35	0.1364
## THOMAS A. DOLAN PKWY	35	0.1364
## HWY 417 ST.LAUR IC115R51	34	0.1325
## MELFORT ST	34	0.1325
## ORLEANS BLVD	34	0.1325
## GREY NUNS DR	33	0.1286
## HWY 417 MOODIE IC134R61	32	0.1247
## HWY 417 NICHOLA IC118R76	32	0.1247
## HWY 417 RICHMON IC130R26	32	0.1247
## LANCASTER RD	32	0.1247
## RIDEAU ST	32	0.1247
## RIVERSIDE DR RAMP 42A	32	0.1247
## YORK ST	32	0.1247
## HWY 417 CARLING IC124R76	31	0.1208
## HWY 417 ROCHE'S IC121BR51	31	0.1208
## MARCH RD	31	0.1208
## OR174 IC112 RAMP 36	31	0.1208
## RIDEAU RD	31	0.1208
## ROCHESTER ST	31	0.1208
## NELSON ST	30	0.1169
## PARKDALE AVE	30	0.1169
## TENTH LINE RD	30	0.1169
## DONALD ST	29	0.1130
## HWY 417 WOODROF IC127R63	29	0.1130
## JOHNSTON RD	29	0.1130
## HERON RD	28	0.1091
## HUNT CLUB RD	28	0.1091
## LARKIN DR	28	0.1091
## ST. PATRICK ST	28	0.1091
## OSGOODE ST	27	0.1052

```

## HWY 417 IS.PARK IC123R62          26      0.1013
## UNIVERSITY RD                     26      0.1013
## HAANEL DR                        25      0.0974
## HWY 417 WOODROF IC127R51         25      0.0974
## MCARTHUR AVE                    25      0.0974
## CATHERINE ST                     24      0.0935
## HWY 417 KENT IC120AR52          24      0.0935
## NORICE ST                         24      0.0935
## RICHARDSON SIDE RD              24      0.0935
## STRANDHERD DR                   24      0.0935
## SUNNYSIDE AVE                    24      0.0935
## CYRVILLE RD                      23      0.0896
## FALLOWFIELD RD                  23      0.0896
## (Other)                           8157    31.7776
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:13971
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET3
##
## Feature Value           Counter   Percentage
## -----
##                               13971    52.5127
## WOODROFFE AVE             127      0.4774
## WEST HUNT CLUB RD          117      0.4398
## TRANSITWAY                 90       0.3383
## O'CONNOR ST                86       0.3232
## RUSSELL RD                 80       0.3007
## MERIVALE RD                79       0.2969
## RIVERSIDE DR                77       0.2894
## ST. LAURENT BLVD            75       0.2819
## HWY 417 RIVERSI IC117R51    72       0.2706
## HWY 417 PARKDAL IC122R51    70       0.2631
## LYON ST                      69       0.2593
## SUSSEX DR                     67       0.2518
## END                           64       0.2406
## HWY 417 NICHOLA IC118R57    63       0.2368
## HWY 417 CARLING IC124R57    61       0.2293
## WELLINGTON ST                61       0.2293
## HIGHWAY 417                  60       0.2255
## HWY 417 MAITLAN IC126R61     59       0.2218

```

## PRINCE OF WALES DR	59	0.2218
## WALKLEY RD	59	0.2218
## HWY 417 MOODIE IC134R51	58	0.2180
## MOODIE DR	58	0.2180
## N/A	58	0.2180
## RICHMOND RD	58	0.2180
## HWY 417 BRONSO IC121AR61	57	0.2142
## SOMERSET ST	57	0.2142
## ST. JOSEPH BLVD	57	0.2142
## HWY 417 VANIER IC117R36	56	0.2105
## HWY 417 WOODROF IC127R25	56	0.2105
## VIEWMOUNT DR	54	0.2030
## KENT ST	53	0.1992
## HWY 417 BOUNDARY IC96R16	52	0.1955
## HWY 417 ROCHES IC121BR51	52	0.1955
## INNES RD	52	0.1955
## INDUSTRIAL AVE	51	0.1917
## RIDEAU ST	50	0.1879
## HERON RD	48	0.1804
## HWY 417 O'CONN IC119BR76	47	0.1767
## METCALFE ST	47	0.1767
## HWY 417 CARLING IC124R76	45	0.1691
## KING EDWARD AVE	45	0.1691
## NELSON ST	45	0.1691
## REGIONAL ROAD 174	45	0.1691
## RIDEAU RD	45	0.1691
## HWY 417 PARKDAL IC122R61	43	0.1616
## X-GL/OT BOUNDARY	43	0.1616
## HWY 417 MOODIE IC134R61	42	0.1579
## REGIONAL RD 174	42	0.1579
## HWY 417 ST.LAUR IC115R36	40	0.1503
## HWY 417 O'CONN IC119BR57	38	0.1428
## HWY 417 VANIER IC117R61	37	0.1391
## TREMBLAY RD	37	0.1391
## STAR TOP RD	35	0.1316
## OR174 IC112 RAMP 51	34	0.1278
## ORLEANS BLVD	34	0.1278
## HWY 417 MOODIE IC134R36	33	0.1240
## MELFORT ST	32	0.1203
## OGILVIE RD	32	0.1203
## MEADOWLANDS DR	31	0.1165
## MONTREAL RD	31	0.1165
## HUNT CLUB RD	29	0.1090
## HWY 417 NICHOLA IC118R76	29	0.1090
## HWY 417 ST.LAUR IC115R51	29	0.1090
## OTTAWA RIVER PKWY	29	0.1090
## PINECREST RD	29	0.1090
## ROYDON PL	29	0.1090



## HWY 417 WOODROF IC127R63	28	0.1052
## NO NAME	28	0.1052
## STARWOOD RD	28	0.1052
## HUNT CLUB PL	27	0.1015
## NORICE ST	27	0.1015
## PERCY ST	27	0.1015
## RICHARDSON SIDE RD	27	0.1015
## TERRY FOX DR	27	0.1015
## THOMAS A. DOLAN PKWY	27	0.1015
## DALHOUSIE ST	26	0.0977
## FALLOWFIELD RD	26	0.0977
## HWY 417 BOUNDARY IC96R51	26	0.0977
## HWY 417 MAITLAN IC126R15	26	0.0977
## HWY 417 ROCHE'S IC121BR16	26	0.0977
## CLYDE AVE	25	0.0940
## GREENBANK RD	25	0.0940
## HWY 416 ROGERSTE IC49R	25	0.0940
## MALAKOFF RD	25	0.0940
## MCARTHUR AVE	25	0.0940
## REMIC RAPIDS ENT	25	0.0940
## SHEFFIELD RD	25	0.0940
## STINSON AVE	25	0.0940
## SUNNYSIDE AVE	25	0.0940
## WESTLEIGH BLVD	25	0.0940
## CASTLEFRANK RD	24	0.0902
## HWY 417 MARCH IC138R61	24	0.0902
## HWY 417 ST.LAUR IC115R57	24	0.0902
## MARCH RD	24	0.0902
## MCLEOD ST	24	0.0902
## OSGODE ST	24	0.0902
## RITA AVE	24	0.0902
## TERMINAL AVE	24	0.0902
## (Other)	8317	31.2610
##		
## -----		
## CHECKING FEATURE:STREET3		
## DATA:All 2006-Only 2006-Homologated.csv...		
##		
## Number of Blank Values:13753		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREETS		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----

##	13753	52.7481
## WOODROFFE AVE	111	0.4257
## TRANSITWAY	100	0.3835
## MERIVALE RD	99	0.3797
## O'CONNOR ST	91	0.3490
## HWY 417 PARKDAL IC122R51	89	0.3413
## WEST HUNT CLUB RD	88	0.3375
## LYON ST	87	0.3337
## RIVERSIDE DR	82	0.3145
## HWY 417 RIVERSI IC117R51	74	0.2838
## RUSSELL RD	71	0.2723
## ST. LAURENT BLVD	71	0.2723
## HIGHWAY 417	68	0.2608
## END	65	0.2493
## PRINCE OF WALES DR	65	0.2493
## REGIONAL ROAD 174	65	0.2493
## RIDEAU RD	65	0.2493
## MOODIE DR	58	0.2225
## INNES RD	55	0.2109
## WALKLEY RD	55	0.2109
## HWY 417 MOODIE IC134R51	54	0.2071
## SUSSEX DR	54	0.2071
## HWY 417 MAITLAN IC126R61	52	0.1994
## INDUSTRIAL AVE	52	0.1994
## STAR TOP RD	51	0.1956
## STARWOOD RD	51	0.1956
## WELLINGTON ST	51	0.1956
## SOMERSET ST	50	0.1918
## TREMBLAY RD	50	0.1918
## N/A	49	0.1879
## HWY 417 VANIER IC117R36	48	0.1841
## ST. JOSEPH BLVD	48	0.1841
## KENT ST	47	0.1803
## HWY 417 O'CONN IC119BR57	46	0.1764
## MELFORT ST	46	0.1764
## HWY 417 CARLING IC124R76	44	0.1688
## HWY 417 ROCHE'S IC121BR16	44	0.1688
## KING EDWARD AVE	43	0.1649
## RICHMOND RD	43	0.1649
## HWY 417 MOODIE IC134R61	42	0.1611
## METCALFE ST	42	0.1611
## PARKDALE AVE	41	0.1573
## REGIONAL RD 174	41	0.1573
## TERRY FOX DR	41	0.1573
## HWY 417 BRONSO IC121AR61	40	0.1534
## HWY 417 NICHOLA IC118R57	40	0.1534
## NO NAME	40	0.1534
## HWY 417 BOUNDARY IC96R16	39	0.1496



## GREENBANK RD	37	0.1419
## HWY 417 RICHMON IC130R26	37	0.1419
## HWY 417 ST.LAUR IC115R36	37	0.1419
## STRANDHERD DR	37	0.1419
## FALLOWFIELD RD	36	0.1381
## HWY 417 PARKDAL IC122R61	36	0.1381
## LANCASTER RD	36	0.1381
## MONTREAL RD	36	0.1381
## THOMAS A. DOLAN PKWY	36	0.1381
## TRANSITWAY ON RAMP	36	0.1381
## BANK ST	35	0.1342
## PRESTON ST	35	0.1342
## HERON RD	34	0.1304
## MONTREAL RD RAMP 86	34	0.1304
## VANIER PKWY	34	0.1304
## HWY 417 ST.LAUR IC115R51	33	0.1266
## REMIC RAPIDS ENT	33	0.1266
## HAANEL DR	32	0.1227
## HWY 417 EAGLESO IC138R51	32	0.1227
## HWY 417 O'CONN IC119BR76	32	0.1227
## OTTAWA RIVER PKWY	32	0.1227
## HWY 417 MOODIE IC134R36	31	0.1189
## PERCY ST	31	0.1189
## HWY 417 KINBURN IC169R35	30	0.1151
## HWY 417 WOODROF IC127R25	30	0.1151
## IRIS ST	30	0.1151
## ROYDON PL	30	0.1151
## YORK ST	30	0.1151
## CLYDE AVE	29	0.1112
## HWY 417 WOODROF IC127R51	29	0.1112
## MCARTHUR AVE	29	0.1112
## SHEFFIELD RD	29	0.1112
## HWY 417 WALKLEY IC110R64	28	0.1074
## OR174 IC112 RAMP 51	28	0.1074
## RITA AVE	28	0.1074
## TERMINAL AVE	28	0.1074
## HWY 417 ROCHE IC121BR51	27	0.1036
## MEADOWLANDS DR	27	0.1036
## SPRATT RD	27	0.1036
## VIEWMOUNT DR	27	0.1036
## DALHOUSIE ST	26	0.0997
## HWY 417 WOODROF IC127R63	26	0.0997
## LANG'S RD	26	0.0997
## TENTH LINE RD	26	0.0997
## OGILVIE RD	25	0.0959
## ROSSLAND AVE	25	0.0959
## CLEOPATRA DR	24	0.0920
## HWY 417 PARKDAL IC122R16	24	0.0920

```

## MARCH RD           24      0.0920
## NELSON ST          24      0.0920
## RIDEAU ST          24      0.0920
## (Other)            8020    30.7598
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:14405
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET3
##
## Feature Value          Counter   Percentage
## -----
## WOODROFFE AVE          14405    51.9006
## WOODROFFE AVE          112      0.4035
## WEST HUNT CLUB RD       102      0.3675
## TRANSITWAY              99       0.3567
## HWY 417 PARKDAL IC122R51 98       0.3531
## O'CONNOR ST             89       0.3207
## WALKLEY RD              84       0.3026
## ST. LAURENT BLVD        82       0.2954
## HIGHWAY 417              77       0.2774
## HWY 417 CARLING IC124R57 76       0.2738
## MERIVALE RD              76       0.2738
## RUSSELL RD              75       0.2702
## HWY 417 RIVERSI IC117R51 74       0.2666
## TERRY FOX DR             69       0.2486
## HWY 417 PARKDAL IC122R61 68       0.2450
## LYON ST                  67       0.2414
## PRINCE OF WALES DR       67       0.2414
## RICHMOND RD              67       0.2414
## SUSSEX DR                 64       0.2306
## WELLINGTON ST             62       0.2234
## HWY 417 VANIER IC117R36  61       0.2198
## N/A                      60       0.2162
## END                      59       0.2126
## STAR TOP RD              59       0.2126
## HWY 417 ST.LAUR IC115R36  57       0.2054
## RIVERSIDE DR              57       0.2054
## SOMERSET ST                55       0.1982
## HWY 417 VANIER IC117R61  54       0.1946
## HWY 417 BRONSO IC121AR61  53       0.1910

```

## HWY 417 NICHOLA IC118R57	53	0.1910
## RIDEAU RD	52	0.1874
## HWY 417 WOODROF IC127R25	51	0.1838
## OTTAWA RIVER PKWY	51	0.1838
## INNES RD	50	0.1801
## MOODIE DR	50	0.1801
## HWY 417 O'CONN IC119BR57	49	0.1765
## METCALFE ST	49	0.1765
## ST. JOSEPH BLVD	48	0.1729
## INDUSTRIAL AVE	46	0.1657
## REGIONAL RD 174	46	0.1657
## LANCASTER RD	45	0.1621
## REGIONAL ROAD 174	45	0.1621
## HWY 417 WOODROF IC127R63	43	0.1549
## VANIER PKWY	43	0.1549
## HERON RD	42	0.1513
## HWY 417 MOODIE IC134R61	42	0.1513
## HWY 417 O'CONN IC119BR76	42	0.1513
## TREMBLAY RD	42	0.1513
## MCARTHUR AVE	41	0.1477
## OSGODE ST	41	0.1477
## STARWOOD RD	41	0.1477
## HWY 417 BOUNDARY IC96R16	40	0.1441
## MARCH RD	39	0.1405
## HWY 417 MAITLAN IC126R61	38	0.1369
## NELSON ST	38	0.1369
## NO NAME	38	0.1369
## OGILVIE RD	38	0.1369
## TENTH LINE RD	38	0.1369
## HWY 417 CARLING IC124R76	36	0.1297
## HWY 417 NICHOLA IC118R76	36	0.1297
## HWY 417 MOODIE IC134R36	35	0.1261
## HWY 417 WOODROF IC127R51	35	0.1261
## NORICE ST	35	0.1261
## PERCY ST	35	0.1261
## STRANDHERD DR	35	0.1261
## HWY 416 ROGERSTE IC49R	34	0.1225
## HWY 417 MOODIE IC134R51	34	0.1225
## MONTREAL RD	34	0.1225
## FALLOWFIELD RD	33	0.1189
## GREENBANK RD	33	0.1189
## HWY 417 ROCHE IC121BR51	33	0.1189
## RITA AVE	33	0.1189
## HWY 417 WOODROF IC127R67	32	0.1153
## REMIC RAPIDS ENT	32	0.1153
## HWY 417 KENT IC120AR52	31	0.1117
## HWY 417 PARKDAL IC122R16	31	0.1117
## ORLEANS BLVD	31	0.1117

```

## ROCHESTER ST           31      0.1117
## VIEWMOUNT DR          31      0.1117
## WINSTON AVE           31      0.1117
## HWY 417 IS.PARK IC123R62 30      0.1081
## HWY 417 ST.LAUR IC115R51 30      0.1081
## KATIMAVIK RD          30      0.1081
## KENT ST                30      0.1081
## YORK ST                30      0.1081
## BANK ST                29      0.1045
## BRONSON AVE           29      0.1045
## HWY 417 ROCHES IC121BR16 29      0.1045
## HWY 417 WALKLEY IC110R64 29      0.1045
## OR174 IC112 RAMP 51     29      0.1045
## PARKDALE AVE          29      0.1045
## PRESTON ST             29      0.1045
## HWY 417 RICHMON IC130R26 28      0.1009
## RIDEAU ST              27      0.0973
## TERMINAL AVE           27      0.0973
## TRANSITWAY ON RAMP     27      0.0973
## ERIE AVE               26      0.0937
## GLADSTONE AVE          26      0.0937
## KING EDWARD AVE RAMP 34 26      0.0937
## (Other)                8775    31.6159
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:14802
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREETS
##
## Feature Value          Counter   Percentage
## -----
##                               14802    51.9332
## WEST HUNT CLUB RD        128      0.4491
## WOODROFFE AVE            124      0.4351
## TRANSITWAY                113      0.3965
## RIVERSIDE DR              104      0.3649
## HWY 417 MOODIE IC134R51  100      0.3509
## REGIONAL ROAD 174         100      0.3509
## MERIVALE RD               99       0.3473
## HWY 417 RIVERSI IC117R51  95       0.3333
## ST. LAURENT BLVD          95       0.3333

```

## WALKLEY RD	90	0.3158
## HWY 417 VANIER IC117R36	85	0.2982
## O'CONNOR ST	85	0.2982
## RUSSELL RD	79	0.2772
## N/A	78	0.2737
## RICHMOND RD	77	0.2702
## SUSSEX DR	74	0.2596
## HWY 417 PARKDAL IC122R61	73	0.2561
## LYON ST	70	0.2456
## HWY 417 MOODIE IC134R36	69	0.2421
## HWY 417 PARKDAL IC122R51	69	0.2421
## END	68	0.2386
## HWY 417 O'CONN IC119BR57	65	0.2281
## TERRY FOX DR	64	0.2245
## INNES RD	63	0.2210
## HWY 417 VANIER IC117R61	59	0.2070
## HWY 417 ROCHE IC121BR16	58	0.2035
## KENT ST	57	0.2000
## HWY 417 WOODROF IC127R25	56	0.1965
## ST. JOSEPH BLVD	56	0.1965
## HWY 417 NICHOLA IC118R57	55	0.1930
## MOODIE DR	55	0.1930
## OR174 IC112 RAMP 51	55	0.1930
## SOMERSET ST	55	0.1930
## WELLINGTON ST	55	0.1930
## PRINCE OF WALES DR	54	0.1895
## OTTAWA RIVER PKWY	53	0.1860
## TREMBLAY RD	53	0.1860
## VANIER PKWY	53	0.1860
## HWY 417 BRONSO IC121AR61	52	0.1824
## HWY 417 CARLING IC124R76	51	0.1789
## RIDEAU RD	50	0.1754
## HWY 417 ROCHE IC121BR51	49	0.1719
## HIGHWAY 417	48	0.1684
## HWY 417 CARLING IC124R57	48	0.1684
## HWY 417 MOODIE IC134R61	47	0.1649
## METCALFE ST	45	0.1579
## HWY 417 ST.LAUR IC115R36	44	0.1544
## REGIONAL RD 174	44	0.1544
## HWY 417 MAITLAN IC126R61	43	0.1509
## VIEWMOUNT DR	42	0.1474
## STARWOOD RD	41	0.1438
## HERON RD	40	0.1403
## HWY 417 ST.LAUR IC115R51	40	0.1403
## MARCH RD	40	0.1403
## STAR TOP RD	40	0.1403
## YORK ST	40	0.1403
## MONTREAL RD	39	0.1368

## NO NAME	39	0.1368
## PERCY ST	39	0.1368
## HUNT CLUB RD	38	0.1333
## HIGBURY PARK	37	0.1298
## HWY 416 ROGERSTE IC49R	37	0.1298
## LANCASTER RD	37	0.1298
## INDUSTRIAL AVE	35	0.1228
## FALLOWFIELD RD	33	0.1158
## KING EDWARD AVE	33	0.1158
## NORICE ST	33	0.1158
## SPRATT RD	33	0.1158
## HWY 416 WESTHUNT IC72R24	32	0.1123
## MCARTHUR AVE	32	0.1123
## TRANSITWAY ON RAMP	32	0.1123
## GREENBANK RD	31	0.1088
## HWY 417 WOODROF IC127R51	31	0.1088
## MELFORT ST	31	0.1088
## NELSON ST	31	0.1088
## HWY 416 FALLOWFI IC66R24	30	0.1053
## VANIER RD	30	0.1053
## IRIS ST	29	0.1017
## KIRKWOOD AVE	29	0.1017
## MEADOWLANDS DR	29	0.1017
## HWY 417 KENT IC120AR52	28	0.0982
## RIDEAU ST	28	0.0982
## ROYDON PL	28	0.0982
## STINSON AVE	28	0.0982
## TERMINAL AVE	28	0.0982
## EAGLESON RD	27	0.0947
## HWY 417 WOODROF IC127R63	27	0.0947
## HWY 417 WOODROF IC127R67	27	0.0947
## NICHOLAS ST	27	0.0947
## REMIC RAPIDS ENT	27	0.0947
## ELGIN ST	26	0.0912
## HARDING RD	26	0.0912
## HEATHERINGTON RD	26	0.0912
## HWY 417 EAGLESO IC138R51	26	0.0912
## HWY 417 O'CONN IC119BR76	26	0.0912
## TEMPLETON ST	26	0.0912
## THOMAS A. DOLAN PKWY	26	0.0912
## HWY 417 BOUNDARY IC96R51	25	0.0877
## (Other)	8773	30.7803
##		
## -----		
## CHECKING FEATURE:STREET3		
## DATA:All 2009-Only 2009-Homologated.csv...		
##		
## Number of Blank Values:14734		

```

## 
## Summary as Factor Feature:
## 
## Number of Features: 100
## 
## TOP 100 FEATURES OF STREETS
## 

## Feature Value          Counter   Percentage
## -----                  -----      -----
## RIVERSIDE DR           14734     51.7836
## RIVERSIDE DR           137       0.4815
## WOODROFFE AVE          135       0.4745
## HWY 417 PARKDAL IC122R51 119       0.4182
## O'CONNOR ST             111       0.3901
## WEST HUNT CLUB RD       111       0.3901
## REGIONAL ROAD 174        100       0.3515
## WALKLEY RD              99        0.3479
## HWY 417 RIVERSI IC117R51 97        0.3409
## ST. LAURENT BLVD         90        0.3163
## HIGHWAY 417              85        0.2987
## RUSSELL RD               85        0.2987
## TRANSITWAY                85        0.2987
## HWY 417 MOODIE IC134R51  80        0.2812
## SUSSEX DR                 79        0.2777
## HWY 417 ROCHES IC121BR16 77        0.2706
## HWY 417 BRONSO IC121AR61 73        0.2566
## HWY 417 PARKDAL IC122R61 73        0.2566
## TERRY FOX DR              73        0.2566
## MERIVALE RD               69        0.2425
## SOMERSET ST                68        0.2390
## RICHMOND RD                66        0.2320
## END                         65        0.2284
## HWY 417 CARLING IC124R76  65        0.2284
## HWY 417 NICHOLA IC118R57  65        0.2284
## LYON ST                      63        0.2214
## TREMBLAY RD                  62        0.2179
## STAR TOP RD                  61        0.2144
## HWY 417 VANIER IC117R36      56        0.1968
## PRINCE OF WALES DR            56        0.1968
## MOODIE DR                      55        0.1933
## PERCY ST                      55        0.1933
## HWY 417 ST.LAUR IC115R36      54        0.1898
## WELLINGTON ST                  54        0.1898
## HWY 417 O'CONN IC119BR57      52        0.1828
## OR174 IC112 RAMP 51            52        0.1828
## OTTAWA RIVER PKWY                52        0.1828
## HWY 417 MAITLAN IC126R61        51        0.1792
## INDUSTRIAL AVE                  51        0.1792

```

## METCALFE ST	51	0.1792
## N/A	51	0.1792
## VANIER PKWY	51	0.1792
## HIGHBURY PARK	50	0.1757
## HWY 416 ROGERSTE IC49R	50	0.1757
## TENTH LINE RD	49	0.1722
## HWY 417 VANIER IC117R61	48	0.1687
## HWY 417 WOODROF IC127R51	48	0.1687
## ST. JOSEPH BLVD	48	0.1687
## KING EDWARD AVE	47	0.1652
## HWY 417 ROCHE'S IC121BR51	46	0.1617
## HWY 417 WOODROF IC127R25	46	0.1617
## HWY 417 MOODIE IC134R36	45	0.1582
## OGILVIE RD	45	0.1582
## RIDEAU ST	45	0.1582
## INNES RD	44	0.1546
## LANCASTER RD	44	0.1546
## HERON RD	43	0.1511
## KENT ST	43	0.1511
## REGIONAL RD 174	43	0.1511
## SUNNYSIDE AVE	43	0.1511
## MONTREAL RD	42	0.1476
## ORLEANS BLVD	42	0.1476
## VIEWMOUNT DR	41	0.1441
## RIDEAU RD	40	0.1406
## HWY 417 CARLING IC124R57	38	0.1336
## FALLOWFIELD RD	36	0.1265
## RIVERSIDE DR RAMP 42A	36	0.1265
## HWY 417 WOODROF IC127R67	34	0.1195
## MCARTHUR AVE	34	0.1195
## SPRATT RD	34	0.1195
## MEADOWLANDS DR	33	0.1160
## SHOPPERS CITY WEST SC	33	0.1160
## ROCHESTER ST	32	0.1125
## SHEFFIELD RD	32	0.1125
## HWY 417 WALKLEY IC110R64	31	0.1090
## MAITLAND AVE	31	0.1090
## NAVAHO DR	31	0.1090
## CLYDE AVE	30	0.1054
## ANTARES DR	29	0.1019
## HUNT CLUB PL	29	0.1019
## HWY 417 O'CONN IC119BR76	29	0.1019
## HWY 417 RR 174 IC113R67	29	0.1019
## NO NAME	29	0.1019
## RENFREW AVE	29	0.1019
## STARWOOD RD	29	0.1019
## HWY 417 BOUNDARY IC96R16	28	0.0984
## MARCH RD	28	0.0984



```
## ROYDON PL           28    0.0984
## CAMBRIDGE ST        27    0.0949
## GREENBANK RD         27    0.0949
## HWY 417 IS.PARK IC123R62  27    0.0949
## HWY 417 RICHMON IC130R26  27    0.0949
## HWY 417 RICHMON IC130R35  27    0.0949
## HUNT CLUB RD          26    0.0914
## HWY 417 EAGLESO IC138R51  26    0.0914
## HWY 417 NICHOLA IC118R76  26    0.0914
## IBER RD                26    0.0914
## LARKIN DR               26    0.0914
## MCLEOD ST              26    0.0914
## (Other)                 8650   30.4010
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:14333
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET3
##
## Feature Value          Counter Percentage
## -----
## TRANSITWAY             14333   52.1522
## WOODROFFE AVE          175     0.6368
## ST. LAURENT BLVD       128     0.4657
## MERIVALE RD              94     0.3420
## RUSSELL RD              94     0.3420
## HWY 417 VANIER IC117R36  92     0.3348
## WEST HUNT CLUB RD       91     0.3311
## RIVERSIDE DR             83     0.3020
## O'CONNOR ST              80     0.2911
## END                     79     0.2875
## REGIONAL RD 174          79     0.2875
## HWY 417 RIVERSI IC117R51  74     0.2693
## REGIONAL ROAD 174          71     0.2583
## HWY 417 PARKDAL IC122R51  70     0.2547
## SUSSEX DR                  69     0.2511
## WELLINGTON ST             69     0.2511
## KENT ST                   68     0.2474
## TERRY FOX DR              68     0.2474
## WALKLEY RD                  68     0.2474
```

## LYON ST	67	0.2438
## HWY 417 ROCHES IC121BR16	66	0.2401
## OTTAWA RIVER PKWY	66	0.2401
## HWY 417 MAITLAN IC126R61	63	0.2292
## HWY 417 VANIER IC117R61	62	0.2256
## PRINCE OF WALES DR	62	0.2256
## RICHMOND RD	62	0.2256
## HWY 417 ROCHES IC121BR51	61	0.2220
## STARWOOD RD	60	0.2183
## MEADOWLANDS DR	57	0.2074
## HWY 417 CARLING IC124R76	55	0.2001
## HWY 417 WOODROF IC127R67	54	0.1965
## METCALFE ST	53	0.1928
## N/A	53	0.1928
## TREMBLAY RD	53	0.1928
## STAR TOP RD	52	0.1892
## HWY 417 O'CONN IC119BR76	50	0.1819
## HWY 417 PARKDAL IC122R61	50	0.1819
## INDUSTRIAL AVE	50	0.1819
## MCARTHUR AVE	50	0.1819
## INNES RD	49	0.1783
## JOHNSTON RD	49	0.1783
## HWY 417 GREENBA IC126R51	48	0.1747
## HWY 417 WOODROF IC127R51	48	0.1747
## HWY 417 WOODROF IC127R25	47	0.1710
## MARCH RD	47	0.1710
## NO NAME	47	0.1710
## ST. JOSEPH BLVD	47	0.1710
## TENTH LINE RD	47	0.1710
## HIGHWAY 417	46	0.1674
## HWY 417 O'CONN IC119BR57	46	0.1674
## ORLEANS BLVD	46	0.1674
## VANIER PKWY	45	0.1637
## HWY 417 BRONSO IC121AR61	44	0.1601
## HWY 417 MOODIE IC134R51	44	0.1601
## NELSON ST	44	0.1601
## RIDEAU RD	44	0.1601
## HWY 417 ST.LAUR IC115R36	43	0.1565
## HWY 417 NICHOLA IC118R57	42	0.1528
## NORICE ST	42	0.1528
## OR174 IC112 RAMP 51	39	0.1419
## HERON RD	38	0.1383
## LANCASTER RD	38	0.1383
## VIEWMOUNT DR	37	0.1346
## MONTREAL RD	36	0.1310
## HWY 417 NICHOLA IC118R76	34	0.1237
## HWY 417 WOODROF IC127R63	34	0.1237
## KING EDWARD AVE	34	0.1237



## PERCY ST	34	0.1237
## HIGBURY PARK	33	0.1201
## HWY 417 ST.LAUR IC115R51	33	0.1201
## HWY 417 BOUNDARY IC96R16	32	0.1164
## MELFORT ST	32	0.1164
## PARKDALE AVE	32	0.1164
## SPRATT RD	32	0.1164
## HWY 417 PARKDAL IC122R16	31	0.1128
## OGILVIE RD	31	0.1128
## STRANDHERD DR	31	0.1128
## HUNT CLUB RD	30	0.1092
## HWY 417 MOODIE IC134R36	30	0.1092
## MCLEOD ST	30	0.1092
## MOODIE DR	30	0.1092
## NEPEAN ST	30	0.1092
## SOMERSET ST	30	0.1092
## WALLER ST	30	0.1092
## YORK ST	30	0.1092
## HWY 416 ROGERSTE IC49R	29	0.1055
## HWY 417 RR 174 IC113R65	29	0.1055
## IRIS ST	29	0.1055
## REMIC RAPIDS ENT	29	0.1055
## TRANSITWAY ON RAMP	29	0.1055
## HWY 417 MARCH IC138R61	28	0.1019
## RIVERSIDE DR RAMP 42A	28	0.1019
## HWY 417 MAITLAN IC126R15	27	0.0982
## PRESTON ST	27	0.0982
## ST. PATRICK ST	27	0.0982
## ST. JOSEPH BLVD R-TRANSIT	26	0.0946
## WILLIAM ST	26	0.0946
## HWY 417 WALKLEY IC110R64	25	0.0910
## (Other)	8219	29.9058
##		
## -----		
## CHECKING FEATURE:STREET3		
## DATA:All 2011-Only 2011-Homologated.csv...		
##		
## Number of Blank Values:14492		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREETS		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
##	14492	51.9427

## WOODROFFE AVE	126	0.4516
## HWY 417 VANIER IC117R36	114	0.4086
## INNES RD	109	0.3907
## WEST HUNT CLUB RD	109	0.3907
## MERIVALE RD	107	0.3835
## TRANSITWAY	107	0.3835
## ST. LAURENT BLVD	106	0.3799
## RIVERSIDE DR	101	0.3620
## HWY 417 PARKDAL IC122R51	86	0.3082
## WALKLEY RD	86	0.3082
## TERRY FOX DR	83	0.2975
## O'CONNOR ST	81	0.2903
## RUSSELL RD	74	0.2652
## HWY 417 BRONSO IC121AR61	72	0.2581
## HERON RD	71	0.2545
## HIGHWAY 417	71	0.2545
## HWY 417 CARLING IC124R76	71	0.2545
## HWY 417 RR 174 IC113R67	70	0.2509
## HWY 417 RIVERSI IC117R51	67	0.2401
## HWY 417 WOODROF IC127R51	65	0.2330
## SUSSEX DR	65	0.2330
## REGIONAL RD 174	63	0.2258
## PRINCE OF WALES DR	61	0.2186
## MEADOWLANDS DR	59	0.2115
## HWY 417 MAITLAN IC126R61	55	0.1971
## TENTH LINE RD	55	0.1971
## GREENBANK RD	54	0.1935
## HWY 417 CARLING IC124R57	54	0.1935
## HWY 417 NICHOLA IC118R57	54	0.1935
## INDUSTRIAL AVE	54	0.1935
## REGIONAL ROAD 174	54	0.1935
## HWY 417 WOODROF IC127R25	53	0.1900
## NO NAME	53	0.1900
## END	52	0.1864
## KENT ST	52	0.1864
## MONTREAL RD	52	0.1864
## SOMERSET ST	52	0.1864
## TREMBLAY RD	52	0.1864
## VIEWMOUNT DR	51	0.1828
## HWY 417 WOODROF IC127R67	50	0.1792
## N/A	50	0.1792
## LYON ST	49	0.1756
## OR174 IC112 RAMP 51	49	0.1756
## RICHMOND RD	49	0.1756
## METCALFE ST	48	0.1720
## RIDEAU RD	48	0.1720
## VANIER PKWY	48	0.1720
## WELLINGTON ST	48	0.1720



## HWY 417 GREENBA IC126R51	47	0.1685
## HWY 417 MOODIE IC134R36	46	0.1649
## HWY 417 ROCHE'S IC121BR16	46	0.1649
## MARCH RD	45	0.1613
## HWY 417 O'CONN IC119BR57	44	0.1577
## HWY 417 ST.LAUR IC115R51	44	0.1577
## STAR TOP RD	44	0.1577
## HWY 417 PARKDAL IC122R61	42	0.1505
## ST. JOSEPH BLVD	41	0.1470
## RIDEAU ST	40	0.1434
## PERCY ST	39	0.1398
## LARKIN DR	38	0.1362
## MOODIE DR	38	0.1362
## TRANSITWAY ON RAMP	38	0.1362
## HWY 416 ROGERSTE IC49R	36	0.1290
## HWY 417 VANIER IC117R61	36	0.1290
## HWY 417 BOUNDARY IC96R16	35	0.1254
## MAC ST	35	0.1254
## SUNNYSIDE AVE	35	0.1254
## HWY 417 MOODIE IC134R51	34	0.1219
## HWY 417 ROCHE'S IC121BR51	34	0.1219
## MELFORT ST	34	0.1219
## RENAUD RD	34	0.1219
## HWY 417 RICHMON IC130R35	33	0.1183
## HWY 417 ST.LAUR IC115R36	33	0.1183
## KING EDWARD AVE	33	0.1183
## HWY 417 O'CONN IC119BR76	32	0.1147
## LANCASTER RD	32	0.1147
## NELSON ST	32	0.1147
## HUNT CLUB RD	31	0.1111
## MCCOOEY LANE	31	0.1111
## NAVAHO DR	31	0.1111
## SPRATT RD	31	0.1111
## HWY 417 NICHOLA IC118R76	30	0.1075
## HWY 417 BOUNDARY IC96R51	29	0.1039
## HWY 417 MAITLAN IC126R15	29	0.1039
## VANCES SIDE RD	29	0.1039
## FALLOWFIELD RD	28	0.1004
## HWY 417 RR 174 IC113R65	28	0.1004
## RICHARDSON SIDE RD	28	0.1004
## ROTHBOURNE RD	28	0.1004
## HWY 417 IS.PARK IC123R62	27	0.0968
## JOCKVALE RD	27	0.0968
## OTTAWA RIVER PKWY	27	0.0968
## ROCHESTER ST	27	0.0968
## SHEFFIELD RD	27	0.0968
## DESCHAMPS AVE	26	0.0932
## HWY 417 WOODROF IC127R63	26	0.0932

```

## ORLEANS BLVD           26      0.0932
## SHOPPERS CITY WEST SC 26      0.0932
## (Other)                8456    30.3082
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:14344
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREETS
##
## Feature Value          Counter   Percentage
## -----
##                               14344    54.0671
## TRANSITWAY                 123      0.4636
## WOODROFFE AVE              123      0.4636
## WEST HUNT CLUB RD          103      0.3882
## HWY 417 VANIER IC117R36    101      0.3807
## RUSSELL RD                 100      0.3769
## ST. LAURENT BLVD           97       0.3656
## RIVERSIDE DR                80       0.3015
## TREMBLAY RD                 77       0.2902
## O'CONNOR ST                76       0.2865
## LYON ST                     75       0.2827
## REGIONAL ROAD 174           75       0.2827
## NO NAME                      70       0.2639
## MERIVALE RD                  69       0.2601
## HWY 417 MAITLAN IC126R61    67       0.2525
## INNES RD                     66       0.2488
## PRINCE OF WALES DR          63       0.2375
## RICHMOND RD                  62       0.2337
## WALKLEY RD                   62       0.2337
## END                           60       0.2262
## HWY 417 NICHOLA IC118R57    60       0.2262
## MOODIE DR                     57       0.2149
## HIGHWAY 417                   55       0.2073
## ST. JOSEPH BLVD              55       0.2073
## HWY 417 CARLING IC124R76    54       0.2035
## HWY 417 RIVERSI IC117R51     54       0.2035
## MONTREAL RD                   54       0.2035
## HWY 417 WOODROF IC127R25    53       0.1998
## METCALFE ST                   51       0.1922
## HWY 417 CARLING IC124R57    50       0.1885

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## HWY 417 ST.LAUR IC115R51	50	0.1885
## REGIONAL RD 174	50	0.1885
## HWY 417 PARKDAL IC122R51	49	0.1847
## HWY 417 ROCHES IC121BR16	49	0.1847
## HWY 417 ST.LAUR IC115R36	47	0.1772
## WELLINGTON ST	47	0.1772
## KENT ST	46	0.1734
## STAR TOP RD	46	0.1734
## N/A	45	0.1696
## SOMERSET ST	45	0.1696
## HERON RD	44	0.1658
## SUSSEX DR	44	0.1658
## HWY 417 MOODIE IC134R36	43	0.1621
## Highbury Park	42	0.1583
## HWY 417 O'CONN IC119BR57	42	0.1583
## HWY 417 BRONSO IC121AR61	41	0.1545
## MARCH RD	41	0.1545
## FALLOWFIELD RD	40	0.1508
## HWY 417 MARCH IC138R61	39	0.1470
## RIDEAU RD	39	0.1470
## HWY 417 VANIER IC117R61	38	0.1432
## TENTH LINE RD	38	0.1432
## VANIER PKWY	38	0.1432
## HWY 417 ROCHES IC121BR51	37	0.1395
## VIEWMOUNT DR	37	0.1395
## KING EDWARD AVE	36	0.1357
## HWY 417 BOUNDARY IC96R51	35	0.1319
## HWY 417 O'CONN IC119BR76	35	0.1319
## PERCY ST	35	0.1319
## TERRY FOX DR	35	0.1319
## RIDEAU ST	34	0.1282
## STRANDHERD DR	34	0.1282
## GREENBANK RD	33	0.1244
## OTTAWA RIVER PKWY	33	0.1244
## JEANNE D'ARC BLVD	32	0.1206
## OR174 IC112 RAMP 36	32	0.1206
## CLEOPATRA DR	31	0.1168
## HWY 417 MOODIE IC134R51	31	0.1168
## HWY 417 WOODROF IC127R51	31	0.1168
## HWY 417 WOODROF IC127R67	31	0.1168
## HWY 417 GREENBA IC126R51	30	0.1131
## MCARTHUR AVE	30	0.1131
## LARKIN DR	29	0.1093
## ORLEANS BLVD	29	0.1093
## HWY 417 PARKDAL IC122R61	28	0.1055
## MONTREAL RD RAMP 64	28	0.1055
## HWY 417 WOODROF IC127R63	27	0.1018
## INDUSTRIAL AVE	27	0.1018

## SPRATT RD	27	0.1018
## DALHOUSIE ST	26	0.0980
## FERGUSON ST	26	0.0980
## HWY 416 ROGERSTE IC49R	26	0.0980
## HWY 417 NICHOLA IC118R76	26	0.0980
## MEADOWLANDS DR	26	0.0980
## NELSON ST	26	0.0980
## NORMANDY CRES S	26	0.0980
## RENFREW AVE	26	0.0980
## SUNNYSIDE AVE	26	0.0980
## WILDFLOWER DR	26	0.0980
## CUMBERLAND ST	25	0.0942
## DEAD END	25	0.0942
## HWY 417 MAITLAN IC126R15	25	0.0942
## LANCASTER RD	25	0.0942
## ST. JEAN ST	25	0.0942
## ST. JOSEPH BLVD R-TRANSIT	25	0.0942
## IRIS ST	24	0.0905
## O'TOOLE RD	24	0.0905
## ROCHESTER ST	24	0.0905
## THURSTON DR	24	0.0905
## (Other)	7758	29.2424
##		
## -----		
## CHECKING FEATURE:STREET3		
## DATA:All 2013-Only 2013-Homologated.csv...		
##		
## Number of Blank Values:14629		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREETS		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
##	14629	52.3006
## HWY 417 VANIER IC117R36	165	0.5899
## HWY 417 RIVERSI IC117R51	141	0.5041
## HWY 417 PARKDAL IC122R51	128	0.4576
## REGIONAL ROAD 174	118	0.4219
## ST. LAURENT BLVD	108	0.3861
## WOODROFFE AVE	108	0.3861
## RIVERSIDE DR	105	0.3754
## RUSSELL RD	105	0.3754
## WEST HUNT CLUB RD	102	0.3647
## WALKLEY RD	100	0.3575

## TRANSITWAY	97	0.3468
## O'CONNOR ST	95	0.3396
## MERIVALE RD	94	0.3361
## HWY 417 NICHOLA IC118R57	82	0.2932
## HIGHWAY 417	76	0.2717
## HWY 417 ROCHE'S IC121BR16	74	0.2646
## END	73	0.2610
## HWY 417 PARKDAL IC122R61	73	0.2610
## LYON ST	70	0.2503
## PRINCE OF WALES DR	70	0.2503
## TERRY FOX DR	65	0.2324
## HWY 417 ROCHE'S IC121BR51	64	0.2288
## HWY 417 ST.LAUR IC115R36	62	0.2217
## REGIONAL RD 174	61	0.2181
## HWY 416 ROGERSTE IC49R	59	0.2109
## HWY 417 VANIER IC117R61	59	0.2109
## KENT ST	59	0.2109
## MOODIE DR	59	0.2109
## HWY 417 CARLING IC124R76	58	0.2074
## INNES RD	58	0.2074
## TREMBLAY RD	58	0.2074
## METCALFE ST	56	0.2002
## RIDEAU RD	55	0.1966
## WELLINGTON ST	54	0.1931
## MEADOWLANDS DR	53	0.1895
## RICHMOND RD	53	0.1895
## SUSSEX DR	52	0.1859
## HWY 417 CARLING IC124R57	51	0.1823
## HWY 417 O'CONN IC119BR57	49	0.1752
## HWY 417 MOODIE IC134R36	48	0.1716
## HWY 417 MAITLAN IC126R61	47	0.1680
## HWY 417 MOODIE IC134R51	47	0.1680
## N/A	47	0.1680
## INDUSTRIAL AVE	46	0.1645
## MARCH RD	45	0.1609
## HWY 417 WOODROF IC127R63	44	0.1573
## HWY 417 WOODROF IC127R51	43	0.1537
## ST. JOSEPH BLVD	42	0.1502
## HWY 417 BRONSO IC121AR61	41	0.1466
## SOMERSET ST	41	0.1466
## HWY 417 WOODROF IC127R25	40	0.1430
## HWY 417 WOODROF IC127R67	40	0.1430
## HWY 417 ST.LAUR IC115R51	39	0.1394
## LANCASTER RD	39	0.1394
## OR174 IC112 RAMP 51	39	0.1394
## HERON RD	37	0.1323
## HWY 417 O'CONN IC119BR76	37	0.1323
## STAR TOP RD	37	0.1323

## HIGHBURY PARK	35	0.1251
## HWY 417 NICHOLA IC118R76	35	0.1251
## ORLEANS BLVD	35	0.1251
## ELGIN ST	34	0.1216
## HWY 417 RICHMON IC130R26	34	0.1216
## MONTREAL RD	34	0.1216
## PERCY ST	34	0.1216
## RIDEAU ST	34	0.1216
## STRANDHERD DR	34	0.1216
## VANIER PKWY	34	0.1216
## HUNT CLUB RD	33	0.1180
## FALLOWFIELD RD	32	0.1144
## HWY 417 MAITLAN IC126R15	32	0.1144
## RIVERSIDE DR RAMP 42A	32	0.1144
## ROYDON PL	32	0.1144
## YORK ST	32	0.1144
## HWY 417 EAGLESO IC138R51	31	0.1108
## NORICE ST	31	0.1108
## ROCHESTER ST	31	0.1108
## CLEOPATRA DR	30	0.1073
## GREENBANK RD	30	0.1073
## IRIS ST	30	0.1073
## MCARTHUR AVE	30	0.1073
## NE/OT BOUNDARY	30	0.1073
## OR174 IC112 RAMP 36	30	0.1073
## RIDGEMONT AVE	30	0.1073
## LANG'S RD	29	0.1037
## PAGE RD	29	0.1037
## SUNNYSIDE AVE	29	0.1037
## DALHOUSIE ST	28	0.1001
## HWY 417 BOUNDARY IC96R16	28	0.1001
## HWY 417 RR 174 IC113R67	28	0.1001
## MAIN ST	28	0.1001
## MELFORT ST	28	0.1001
## PARKDALE AVE	28	0.1001
## SPRATT RD	28	0.1001
## HWY 417 MARCH IC155R61	27	0.0965
## NO NAME	27	0.0965
## ROSSLAND AVE	27	0.0965
## TENTH LINE RD	27	0.0965
## (Other)	8244	29.4734
##		
## -----		
## CHECKING FEATURE:STREET3		
## DATA:All 2014-Only 2014-Homologated.csv...		
##		
## Number of Blank Values:15210		
##		

```
## Summary as Factor Feature:
```

```
##
```

```
## Number of Features: 100
```

```
##
```

```
## TOP 100 FEATURES OF STREETS
```

```
##
```

## Feature Value	Counter	Percentage
## -----	-----	-----
## HWY417 IC118 RAMP35 (_3ZA2YQ)	15210	55.7306
## HWY417 IC117 RAMP51 (_3ZA2YP)	113	0.4140
## HWY417 IC117 RAMP35 (_3ZA2YN)	111	0.4067
## HWY417 IC117 RAMP61 (_3ZA2YM)	89	0.3261
## HWY417 IC124 RAMP76 (_3ZA2Y2)	78	0.2858
## HWY417 IC115 RAMP36 (_3ZA2RZ)	69	0.2528
## HWY417 IC115 RAMP26 (_3ZA2R4)	60	0.2198
## HWY417 IC115 RAMP26 (_3ZA2R4)	53	0.1942
## HWY417 IC118 RAMP57 (_3ZA2R2)	50	0.1832
## HWY417 IC124 RAMP67 (_3ZA2R7)	48	0.1759
## HWY417 IC127 RAMP67 (_3ZA2RF)	45	0.1649
## TRANSIT (_3ZA28V)	45	0.1649
## HWY417 IC117 RAMP36 (_3ZA2Y0)	42	0.1539
## HWY417 IC115 RAMP51 (_3ZA2R3)	41	0.1502
## HWY417 IC121A RAMP51 (_3ZA2YW)	41	0.1502
## HWY417 IC117 RAMP26 (_3ZAZE0)	40	0.1466
## PARKDALE (_3ZA24KA)	40	0.1466
## HWY417 IC122 RAMP15 (_3ZA2R0)	37	0.1356
## HWY417 IC122 RAMP61 (_3ZA2RA)	37	0.1356
## ST. LAURENT BLVD (_3ZA3R7)	37	0.1356
## FALLOWFIELD RD (_3ZA1NE)	36	0.1319
## HWY417 IC126 RAMP51 (_3ZA2XA)	36	0.1319
## HWY417 IC118 RAMP67 (_3ZA2YR)	35	0.1282
## OTTAWA RIVER PKWY (_3ZA2ZEB)	34	0.1246
## HWY417 IC134 RAMP36 (_3ZA20I)	32	0.1173
## TREMBLAY RD (_3ZA4SE)	32	0.1173
## HWY417 IC119A RAMP75 (_3ZA1QN)	31	0.1136
## REGIONAL ROAD 174 DIVIDED (_3ZA2Y5)	31	0.1136
## HWY 417 BOUNDARY IC96R16 (_3ZA2W5)	30	0.1099
## BOURASSA ST (_3ZBOFB)	29	0.1063
## TURN LANE (_3ZA3J0)	29	0.1063
## HWY417 IC124 RAMP55 (_3ZA2Y1)	28	0.1026
## Highbury Park DR (_3ZAZK0)	27	0.0989
## HWY417 IC138 RAMP61 (_3ZA20H)	27	0.0989
## MEADOWBROOK RD (_3ZA3SN)	27	0.0989
## NELSON ST (_3ZA3VG)	26	0.0953
## HWY417 IC129 RAMP35 (_3ZAYFR)	25	0.0916
## VANIER PKWY (_3ZA3LL)	25	0.0916
## SUSSEX DR (_3ZA1B0)	24	0.0879
## TENTH LINE RD (_3ZA3Y7)	24	0.0879

```
## -----
```

## Feature Value	Counter	Percentage
## -----	-----	-----
## HWY417 IC118 RAMP35 (_3ZA2YQ)	15210	55.7306
## HWY417 IC117 RAMP51 (_3ZA2YP)	113	0.4140
## HWY417 IC117 RAMP35 (_3ZA2YN)	111	0.4067
## HWY417 IC117 RAMP61 (_3ZA2YM)	89	0.3261
## HWY417 IC124 RAMP76 (_3ZA2Y2)	78	0.2858
## HWY417 IC115 RAMP36 (_3ZA2RZ)	69	0.2528
## HWY417 IC115 RAMP26 (_3ZA2R4)	60	0.2198
## HWY417 IC115 RAMP26 (_3ZA2R4)	53	0.1942
## HWY417 IC118 RAMP57 (_3ZA2R2)	50	0.1832
## HWY417 IC124 RAMP67 (_3ZA2R7)	48	0.1759
## HWY417 IC127 RAMP67 (_3ZA2RF)	45	0.1649
## TRANSIT (_3ZA28V)	45	0.1649
## HWY417 IC117 RAMP36 (_3ZA2Y0)	42	0.1539
## HWY417 IC115 RAMP51 (_3ZA2R3)	41	0.1502
## HWY417 IC121A RAMP51 (_3ZA2YW)	41	0.1502
## HWY417 IC117 RAMP26 (_3ZAZE0)	40	0.1466
## PARKDALE (_3ZA24KA)	40	0.1466
## HWY417 IC122 RAMP15 (_3ZA2R0)	37	0.1356
## HWY417 IC122 RAMP61 (_3ZA2RA)	37	0.1356
## ST. LAURENT BLVD (_3ZA3R7)	37	0.1356
## FALLOWFIELD RD (_3ZA1NE)	36	0.1319
## HWY417 IC126 RAMP51 (_3ZA2XA)	36	0.1319
## HWY417 IC118 RAMP67 (_3ZA2YR)	35	0.1282
## OTTAWA RIVER PKWY (_3ZA2ZEB)	34	0.1246
## HWY417 IC134 RAMP36 (_3ZA20I)	32	0.1173
## TREMBLAY RD (_3ZA4SE)	32	0.1173
## HWY417 IC119A RAMP75 (_3ZA1QN)	31	0.1136
## REGIONAL ROAD 174 DIVIDED (_3ZA2Y5)	31	0.1136
## HWY 417 BOUNDARY IC96R16 (_3ZA2W5)	30	0.1099
## BOURASSA ST (_3ZBOFB)	29	0.1063
## TURN LANE (_3ZA3J0)	29	0.1063
## HWY417 IC124 RAMP55 (_3ZA2Y1)	28	0.1026
## Highbury Park DR (_3ZAZK0)	27	0.0989
## HWY417 IC138 RAMP61 (_3ZA20H)	27	0.0989
## MEADOWBROOK RD (_3ZA3SN)	27	0.0989
## NELSON ST (_3ZA3VG)	26	0.0953
## HWY417 IC129 RAMP35 (_3ZAYFR)	25	0.0916
## VANIER PKWY (_3ZA3LL)	25	0.0916
## SUSSEX DR (_3ZA1B0)	24	0.0879
## TENTH LINE RD (_3ZA3Y7)	24	0.0879

## BAYSHORE CS (_3ZAA40B)	23	0.0843
## OR174 BLAIR IC112 RAMP51 (_3ZAZFJ)	23	0.0843
## RIVERSIDE DR NB RAMP FROM EB TO WB (_3ZBOEF)	23	0.0843
## STAFFORD RD (_3ZBOCU)	23	0.0843
## HWY417 IC120A RAMP52 (_3ZA2R6)	22	0.0806
## PRINCE OF WALES DR (_3ZA3IQ)	22	0.0806
## HWY416 IC57 RAMP62 (_3ZA10I)	21	0.0769
## HWY417 IC121B RAMP51 (_3ZA2RB)	21	0.0769
## HWY417 IC122 RAMP16 (_3ZA2R9)	21	0.0769
## HWY417 IC126 RAMP16 (_3ZA2X0)	21	0.0769
## MOODIE DR (_3ZA411)	21	0.0769
## TRANS CANADA TRAIL (_355BDZB)	21	0.0769
## ANOKA ST (_3ZA360)	20	0.0733
## HWY416 IC49 RAMP42 (_3ZAZGI)	20	0.0733
## HWY417 IC134 RAMP51 (_3ZA29B)	20	0.0733
## HWY417 IC142 RAMP25 (_3ZA1Z0)	20	0.0733
## HWY417 IC121B RAMP16 (_3ZA2Y4)	19	0.0696
## REGIONAL ROAD 174 (_3ZA2RY)	19	0.0696
## END (_3ZA795)	18	0.0660
## HWY417 IC121A RAMP61 (_3ZA2YY)	18	0.0660
## INDUSTRIAL AVE (_3ZA3R8)	18	0.0660
## RUSSELL RD (_3ZA3R9)	18	0.0660
## ST. LAURENT BLVD (_3ZA79Z)	18	0.0660
## WEST HUNT CLUB RD (_3ZAYGP)	18	0.0660
## COLONNADE RD (_3ZA33F)	17	0.0623
## Continuation of REGIONAL (_3ZA28A)	17	0.0623
## HWY417 IC104 RAMP16 (_3ZA2W9)	17	0.0623
## HWY417 IC129 RAMP51 (_3ZA290)	17	0.0623
## HWY417 IC145 RAMP56 (_3ZA2Q2)	17	0.0623
## INNES RD (_3ZA2EZ)	17	0.0623
## LEMIEUX ST (_3ZA2C9)	17	0.0623
## POWELL AVE (_3ZA3BZ)	17	0.0623
## RICHMOND RD (_3ZA4Y2)	17	0.0623
## STATION RD (_3ZA3CD)	17	0.0623
## ANDERSON RD (_3ZA3JZ)	16	0.0586
## BELFAST RD (_3ZA2GU)	16	0.0586
## CAMERON ST (_3ZA27U)	16	0.0586
## HILLSIDE DR (_3ZA1MC)	16	0.0586
## HWY417 IC139 RAMP61 (_4BCL0Z)	16	0.0586
## HWY417 IC142 RAMP35 (_3ZAZE1)	16	0.0586
## SMYTH RD (_3ZA3R6)	16	0.0586
## BILLINGS TRANSIT (_3ZA3NMA)	15	0.0550
## CHURCHILL AVE N (_3ZA40S)	15	0.0550
## DONALD ST (_3ZBOF4)	15	0.0550
## HIGHWAY 7 (_7JQ7LK)	15	0.0550
## HWY416 IC57 RAMP34 (_3ZAZLC)	15	0.0550
## HWY417 IC119B RAMP57 (_3ZA2R1)	15	0.0550
## HWY417 IC139 RAMP15 (_4BCLBK)	15	0.0550

```

## RAMP (_3ZBOFZB) 15 0.0550
## REGIONAL ROAD 174 (_3ZA2XG) 15 0.0550
## RIVERDALE AVE (_3ZA3BV) 15 0.0550
## STAR TOP RD (_3ZA2XP) 15 0.0550
## TRANS CANADA TRAIL (_355BDZA) 15 0.0550
## TURN LANE (_3ZBPH9) 15 0.0550
## CLEGG ST (2) (_3ZBPHH) 14 0.0513
## HWY417 IC104 RAMP61 (_3ZA2W6) 14 0.0513
## HWY417 IC117 RAMP26 (_3ZA4TH) 14 0.0513
## HWY417 IC124 RAMP57 (_3ZA2R5) 14 0.0513
## HWY417 IC130 RAMP25 (_3ZA298) 14 0.0513
## (Other) 9383 34.3800
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:16087
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET3
##
## Feature Value Counter Percentage
## -----
## HWY417 IC118 RAMP35 (_3ZA2YQ) 16087 57.7278
## HWY417 IC117 RAMP35 (_3ZA2YN) 66 0.2368
## HWY417 IC117 RAMP36 (_3ZA2YO) 65 0.2333
## OR174 BLAIR IC112 RAMP51 (_3ZAZFJ) 60 0.2153
## HWY417 IC124 RAMP67 (_3ZA2R7) 60 0.2153
## HWY417 IC126 RAMP51 (_3ZA2XA) 54 0.1938
## HWY417 IC115 RAMP36 (_3ZA2RZ) 52 0.1866
## HWY417 IC117 RAMP51 (_3ZA2YP) 48 0.1722
## HWY417 IC118 RAMP67 (_3ZA2YR) 46 0.1651
## HWY417 IC121A RAMP51 (_3ZA2YW) 45 0.1615
## HWY417 IC124 RAMP76 (_3ZA2Y2) 45 0.1579
## FALLOWFIELD RD (_3ZA1NE) 44 0.1543
## HWY417 IC122 RAMP15 (_3ZA2R0) 43 0.1543
## HWY417 IC117 RAMP61 (_3ZA2YM) 43 0.1435
## HWY417 IC119A RAMP75 (_3ZA1QN) 40 0.1435
## HWY417 IC118 RAMP57 (_3ZA2R2) 40 0.1435
## HWY417 IC121B RAMP16 (_3ZA2Y4) 39 0.1400
## HWY417 IC124 RAMP55 (_3ZA2Y1) 36 0.1292
## HWY417 IC127 RAMP67 (_3ZA2RF) 34 0.1220
## HWY417 IC129 RAMP35 (_3ZAYFR) 34 0.1220

```

## HWY417 IC115 RAMP26 (_3ZA2R4)	32	0.1148
## HWY417 IC118 RAMP76 (_3ZA2YS)	31	0.1112
## HWY417 IC122 RAMP51 (_3ZA2R8)	31	0.1112
## HWY417 IC127 RAMP25 (_3ZA2RE)	31	0.1112
## MEADOWBROOK RD (_3ZA3SN)	31	0.1112
## HWY417 IC122 RAMP16 (_3ZA2R9)	30	0.1077
## ST. LAURENT BLVD (_3ZA3R7)	30	0.1077
## HWY417 IC117 RAMP26 (_3ZAZE0)	29	0.1041
## HWY417 IC119B RAMP57 (_3ZA2R1)	27	0.0969
## HWY417 IC121A RAMP61 (_3ZA2YY)	27	0.0969
## HWY417 IC123 RAMP62 (_3ZA2YZ)	27	0.0969
## HWY417 IC134 RAMP51 (_3ZA29B)	27	0.0969
## TRANSIT (_3ZA28V)	27	0.0969
## HWY 417 BOUNDARY IC96R16 (_3ZA2W5)	26	0.0933
## TENTH LINE RD (_3ZA3Y7)	26	0.0933
## HWY417 IC120A RAMP52 (_3ZA2R6)	24	0.0861
## OR174 IC109 RAMP86 (_3ZA28W)	24	0.0861
## REGIONAL ROAD 174 (_3ZA2RY)	23	0.0825
## RUSSELL RD (_3ZA3R9)	23	0.0825
## HWY417 IC119A RAMP67 (_3ZA2YT)	22	0.0789
## HWY417 IC122 RAMP61 (_3ZA2RA)	22	0.0789
## HWY417 IC124 RAMP57 (_3ZA2R5)	22	0.0789
## HWY417 IC88 RAMP16 (_3ZA27Z)	22	0.0789
## PROVINCIAL BOUNDARY (_3ZA2ZEA)	22	0.0789
## ANDERSON RD (_3ZA3JZ)	21	0.0754
## HWY417 IC134 RAMP36 (_3ZA20I)	21	0.0754
## OR174 IC109 RAMP55 (_3ZA28X)	21	0.0754
## REGIONAL ROAD 174 DIVIDED (_3ZA2Y5)	21	0.0754
## TREMBLAY RD (_3ZA4SE)	21	0.0754
## END (1) (_3ZA1QK)	20	0.0718
## HWY416 IC72 RAMP24 (_3ZAZMZ)	20	0.0718
## HWY417 IC126 RAMP61 (_3ZA2RC)	20	0.0718
## KING EDWARD AVE (_3ZB0FX)	20	0.0718
## BREWER WAY (_3ZA3BT)	19	0.0682
## HWY417 IC121A RAMP16 (_3ZA2YX)	19	0.0682
## LEMIEUX ST (_3ZA2C9)	19	0.0682
## HWY417 IC115 RAMP51 (_3ZA2R3)	18	0.0646
## HWY417 IC126 RAMP16 (_3ZA2X0)	18	0.0646
## LOBLAWS SC (_3ZA4ISB)	18	0.0646
## MAPLE GROVE RD (_3ZA1EH)	18	0.0646
## NELSON ST (_3ZA3VG)	18	0.0646
## RIVERSIDE DR RAMPS 34B & 42A-3 (_3ZA3BR)	18	0.0646
## SHORE ST (_3ZA2GT)	18	0.0646
## BOURASSA ST (_3ZB0FB)	17	0.0610
## CLEGG ST (2) (_3ZBPHH)	17	0.0610
## DES EP (_3ZA3YNB)	17	0.0610
## INNES RD (_3ZA2EZ)	17	0.0610
## JEANNE D'ARC BLVD/ME (_3ZA3JWB)	17	0.0610

## RAMP (_3ZA36L)	17	0.0610
## STARWOOD RD (_3ZA2TX)	17	0.0610
## SUSSEX DR (_3ZA1B0)	17	0.0610
## VANIER PKWY (_3ZA3LL)	17	0.0610
## WALLER ST (_6KCFNL)	17	0.0610
## 207 E OF CLYDE AVE (_3ZA4ISA)	16	0.0574
## ERIE AVE (_3ZA36X)	16	0.0574
## HWY417 IC119B RAMP76 (_3ZA2YU)	16	0.0574
## HWY417 IC121B RAMP51 (_3ZA2RB)	16	0.0574
## HWY417 IC134 RAMP26 (_3ZA29C)	16	0.0574
## OR174 IC112 (_3ZA2YI)	16	0.0574
## OR174 IC112 RAMP26 (_3ZAZFK)	16	0.0574
## PAGE RD (_3ZA3JY)	16	0.0574
## PIKE ST (_3ZA3S3)	16	0.0574
## SANDFORD FLEMING AVE (_3ZA3PG)	16	0.0574
## STAFFORD RD (_3ZBOCU)	16	0.0574
## STONEHAVEN DR (_3ZA41H)	16	0.0574
## UPLANDS DR (_3ZA2SC)	16	0.0574
## HWY417 IC115 RAMP35 (_3ZAZEB)	15	0.0538
## HWY417 IC145 RAMP56 (_3ZA2Q2)	15	0.0538
## INDUSTRIAL AVE (_3ZA3R8)	15	0.0538
## MAPLE GROVE RD (_3ZA3DN)	15	0.0538
## NAVAHO DR (_3ZA2TY)	15	0.0538
## OR174 IC105 RAMP16 (_3ZA2XD)	15	0.0538
## WEST HUNT CLUB RD (_3ZAYGP)	15	0.0538
## 125 N OF QUEEN MARY ST (_3ZA2CFA)	14	0.0502
## 260 N OF FALLOWFIELD RD/TRANSITWAY (_3ZA3IO)	14	0.0502
## ANOKA ST (_3ZA360)	14	0.0502
## FALLOWFIELD RD (_3ZA410)	14	0.0502
## HWY417 IC120B RAMP36 (_3ZA2YV)	14	0.0502
## (Other)	9295	33.3549
##		
## -----		
## CHECKING FEATURE:STREET3		
## DATA:All 2016-Only 2016-Homologated.csv...		
##		
## Number of Blank Values:14413		
##		
## Summary as Factor Feature:		
##		
## Number of Features: 100		
##		
## TOP 100 FEATURES OF STREETS		
##		
## Feature Value	Counter	Percentage
## -----	-----	-----
##	14413	55.7390
## END	139	0.5376

## HIGHWAY 417	130	0.5027
## BANK ST	102	0.3945
## TURN LANE	100	0.3867
## TRANSIT	92	0.3558
## HWY417 IC121B RAMP16	80	0.3094
## WOODROFFE AVE	76	0.2939
## HWY417 IC124 RAMP76	67	0.2591
## INNES RD	67	0.2591
## ST. LAURENT BLVD	67	0.2591
## HWY417 IC126 RAMP51	66	0.2552
## HWY417 IC129 RAMP35	65	0.2514
## VANIER PKWY	62	0.2398
## HWY417 IC127 RAMP25	59	0.2282
## MERIVALE RD	58	0.2243
## ELGIN ST	56	0.2166
## TO BE DETERMINED	56	0.2166
## HWY417 IC121A RAMP61	51	0.1972
## HWY417 IC122 RAMP16	51	0.1972
## HWY417 IC117 RAMP35	50	0.1934
## O'CONNOR ST	50	0.1934
## TREMBLAY RD	50	0.1934
## HWY417 IC115 RAMP26	49	0.1895
## HWY417 IC117 RAMP36	49	0.1895
## FALLOWFIELD RD	48	0.1856
## HWY417 IC121B RAMP51	46	0.1779
## HWY417 IC122 RAMP51	43	0.1663
## HWY417 IC134 RAMP25	43	0.1663
## RAMP	43	0.1663
## RUSSELL RD	43	0.1663
## HWY417 IC123 RAMP62	42	0.1624
## PRINCE OF WALES DR	42	0.1624
## HWY 417 BOUNDARY IC96R16	40	0.1547
## HWY417 IC115 RAMP36	40	0.1547
## HWY417 IC124 RAMP67	40	0.1547
## WALKLEY RD	40	0.1547
## METCALFE ST	39	0.1508
## TENTH LINE RD	38	0.1470
## MEADOWBROOK RD	37	0.1431
## MONTREAL RD	37	0.1431
## OR174 IC112	37	0.1431
## BASELINE RD	36	0.1392
## HWY417 IC119A RAMP75	36	0.1392
## OR174 BLAIR IC112 RAMP51	36	0.1392
## RICHMOND RD	36	0.1392
## HWY417 IC117 RAMP61	35	0.1354
## HWY417 IC118 RAMP76	35	0.1354
## HWY417 IC127 RAMP67	35	0.1354
## KENT ST	35	0.1354



## CARLING AVE	34	0.1315
## HWY417 IC124 RAMP57	34	0.1315
## WEST HUNT CLUB RD	34	0.1315
## WALLER ST	33	0.1276
## HWY417 IC119A RAMP67	32	0.1238
## RIDEAU ST	32	0.1238
## OLD TENTH LINE RD	31	0.1199
## COLONNADE RD	30	0.1160
## HAZELDEAN RD	30	0.1160
## HWY417 IC124 RAMP55	30	0.1160
## HWY417 IC134 RAMP26	29	0.1122
## OR174 IC112 RAMP26	29	0.1122
## UPLANDS DR	29	0.1122
## HUNT CLUB RD	28	0.1083
## HWY417 IC118 RAMP57	28	0.1083
## LEITRIM RD	28	0.1083
## OTTAWA RIVER PKWY	28	0.1083
## SOMERSET ST W	28	0.1083
## HWY417 IC122 RAMP61	27	0.1044
## HWY417 IC129 RAMP26	27	0.1044
## REGIONAL ROAD 174	27	0.1044
## RIVERSIDE DR	27	0.1044
## TRAINYARDS DR	27	0.1044
## TURN LANE (1)	27	0.1044
## ALBION RD	25	0.0967
## CUMBERLAND ST	25	0.0967
## DALHOUSIE ST	25	0.0967
## HWY417 IC118 RAMP67	25	0.0967
## CLYDE AVE	24	0.0928
## HWY417 IC120A RAMP52	24	0.0928
## HWY417 IC122 RAMP15	24	0.0928
## HWY417 IC126 RAMP61	24	0.0928
## CHURCHILL AVE N	23	0.0889
## Continuation of HIGHWAY 417	23	0.0889
## OR174 IC105 RAMP16	23	0.0889
## PARKDALE	23	0.0889
## SMYTH RD	23	0.0889
## ANDERSON RD	22	0.0851
## BELCOURT BLVD	22	0.0851
## DONALD ST	22	0.0851
## EAGLESON RD	22	0.0851
## MOODIE DR	22	0.0851
## RIDEAU RD	22	0.0851
## BRONSON AVE	21	0.0812
## FOX CRES	21	0.0812
## GLADSTONE AVE	21	0.0812
## GREENBANK RD	21	0.0812
## HWY417 IC115 RAMP51	21	0.0812

```

## LEMIEUX ST                      21      0.0812
## (Other)                         7493    28.9775
##
## -----
## CHECKING FEATURE:STREET3
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:15797
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF STREET3
##
## Feature Value          Counter   Percentage
## -----
##                               15797    59.5192
## TRANSIT                     150      0.5652
## HIGHWAY 417                 129      0.4860
## END                          121      0.4559
## HWY417 IC122 RAMP51        104      0.3918
## HWY417 IC118 RAMP57        102      0.3843
## HWY417 IC121B RAMP16       95       0.3579
## HWY417 IC126 RAMP51       87       0.3278
## HWY417 IC121B RAMP51       81       0.3052
## INNES RD                     80       0.3014
## TURN LANE                    77       0.2901
## BANK ST                      76       0.2863
## HWY417 IC117 RAMP36        75       0.2826
## HWY417 IC124 RAMP76        68       0.2562
## FALLOWFIELD RD              66       0.2487
## HWY417 IC123 RAMP62        65       0.2449
## HWY417 IC121A RAMP61        61       0.2298
## HWY417 IC134 RAMP36        61       0.2298
## HWY417 IC124 RAMP57        56       0.2110
## MERIVALE RD                  54       0.2035
## ST. LAURENT BLVD            54       0.2035
## WOODROFFE AVE               54       0.2035
## CARLING AVE                 53       0.1997
## HWY417 IC117 RAMP51        53       0.1997
## HWY417 IC124 RAMP55        48       0.1809
## LEITRIM RD                  46       0.1733
## REGIONAL ROAD 174           46       0.1733
## HWY417 IC122 RAMP16         45       0.1695
## HWY417 IC124 RAMP67         45       0.1695
## WALLER ST                   45       0.1695
## HWY417 IC117 RAMP35         44       0.1658

```



## HWY417 IC115 RAMP36	42	0.1582
## HWY417 IC126 RAMP61	42	0.1582
## RICHMOND RD	41	0.1545
## TO BE DETERMINED	40	0.1507
## HWY417 IC115 RAMP51	39	0.1469
## O'CONNOR ST	39	0.1469
## WEST HUNT CLUB RD	39	0.1469
## HWY 417 BOUNDARY IC96R16	38	0.1432
## MOODIE DR	38	0.1432
## OR174 BLAIR IC112 RAMP51	38	0.1432
## HWY417 IC118 RAMP76	37	0.1394
## GREENBANK RD	36	0.1356
## HWY417 IC126 RAMP16	36	0.1356
## HWY417 IC129 RAMP35	36	0.1356
## HWY417 IC134 RAMP51	36	0.1356
## RUSSELL RD	36	0.1356
## RAMP	35	0.1319
## HWY417 IC117 RAMP26	33	0.1243
## HWY417 IC119A RAMP67	33	0.1243
## HWY417 IC88 RAMP16	33	0.1243
## HWY417 IC121A RAMP16	32	0.1206
## HAWTHORNE RD	30	0.1130
## HWY417 IC113 RAMP65	30	0.1130
## VANIER PKWY	30	0.1130
## ELGIN ST	29	0.1093
## HWY416 IC72 RAMP24	29	0.1093
## HWY417 IC122 RAMP15	29	0.1093
## HWY417 IC127 RAMP35	29	0.1093
## TRANS CANADA TRAIL	29	0.1093
## BAY ST	28	0.1055
## CUMBERLAND ST	27	0.1017
## CAMBRIAN RD	26	0.0980
## HWY417 IC104 RAMP51	26	0.0980
## KING EDWARD AVE	26	0.0980
## TREMBLAY RD	26	0.0980
## HWY417 IC104 RAMP16	25	0.0942
## HWY417 IC115 RAMP26	25	0.0942
## HWY417 IC120A RAMP52	25	0.0942
## HWY417 IC122 RAMP61	25	0.0942
## INDUSTRIAL AVE	25	0.0942
## HWY417 IC119A RAMP75	24	0.0904
## HWY417 IC126 RAMP25	24	0.0904
## MONTREAL RD	24	0.0904
## PARKDALE	24	0.0904
## RIVERSIDE DR	24	0.0904
## HILLSIDE DR	23	0.0867
## HWY416 IC72 RAMP53	23	0.0867
## HWY417 IC118 RAMP35	23	0.0867



```
## MEADOWBROOK RD           23   0.0867
## OTTAWA RIVER PKWY         23   0.0867
## TENTH LINE RD            23   0.0867
## DONALD ST                 22   0.0829
## EAGLESON RD              22   0.0829
## HWY417 IC96 RAMP51        22   0.0829
## LYON ST N                 22   0.0829
## METCALFE ST               22   0.0829
## SPRATT RD                 22   0.0829
## STAR TOP RD               22   0.0829
## WALKLEY RD                22   0.0829
## ANDERSON RD               21   0.0791
## HAZELDEAN RD              21   0.0791
## HWY417 IC129 RAMP51        21   0.0791
## HWY417 IC130 RAMP26        21   0.0791
## MAPLE GROVE RD            21   0.0791
## ST. JOSEPH BLVD           21   0.0791
## HWY417 IC119B RAMP76        20   0.0754
## HWY417 IC127 RAMP25        20   0.0754
## TERRY FOX DR               20   0.0754
## (Other)                   6685  25.1874
##
## =====
## FINAL INFO CHECKING FEATURE:STREET3
## ALL DATA...
## =====
##
## Number of Blank Values:204135
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                               25669          26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                               26073          27755
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                               28502          28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                               27483          27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                               26530          27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                               27292          27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                               25858          26541
##
## 
## Summary as Factor Feature:
## Number of Features: 100[1] "TOP 100 FEATURES COUNTERS OF:STREET3"
```

Feature Value	Counter	Percentage
	204135	53.6493
WOODROFFE AVE	1347	0.3540
WEST HUNT CLUB RD	1110	0.2917
TRANSITWAY	1083	0.2846
ST. LAURENT BLVD	1028	0.2702
O'CONNOR ST	969	0.2547
RIVERSIDE DR	967	0.2541
MERIVALE RD	958	0.2518
RUSSELL RD	914	0.2402
HIGHWAY 417	894	0.2350
HWY 417 PARKDAL IC122R51	887	0.2331
END	886	0.2329
HWY 417 VANIER IC117R36	872	0.2292
WALKLEY RD	847	0.2226
HWY 417 RIVERSI IC117R51	814	0.2139
REGIONAL ROAD 174	805	0.2116
INNES RD	751	0.1974
PRINCE OF WALES DR	673	0.1769
RICHMOND RD	671	0.1763
LYON ST	669	0.1758
SUSSEX DR	644	0.1693
TERRY FOX DR	605	0.1590
TREMBLAY RD	598	0.1572
WELLINGTON ST	587	0.1543
HWY 417 NICHOLA IC118R57	575	0.1511
MOODIE DR	569	0.1495
KENT ST	563	0.1480
METCALFE ST	551	0.1448
ST. JOSEPH BLVD	536	0.1409
N/A	532	0.1398
HWY 417 BRONSO IC121AR61	525	0.1380
HWY 417 MOODIE IC134R51	524	0.1377
HWY 417 PARKDAL IC122R61	523	0.1375
INDUSTRIAL AVE	514	0.1351

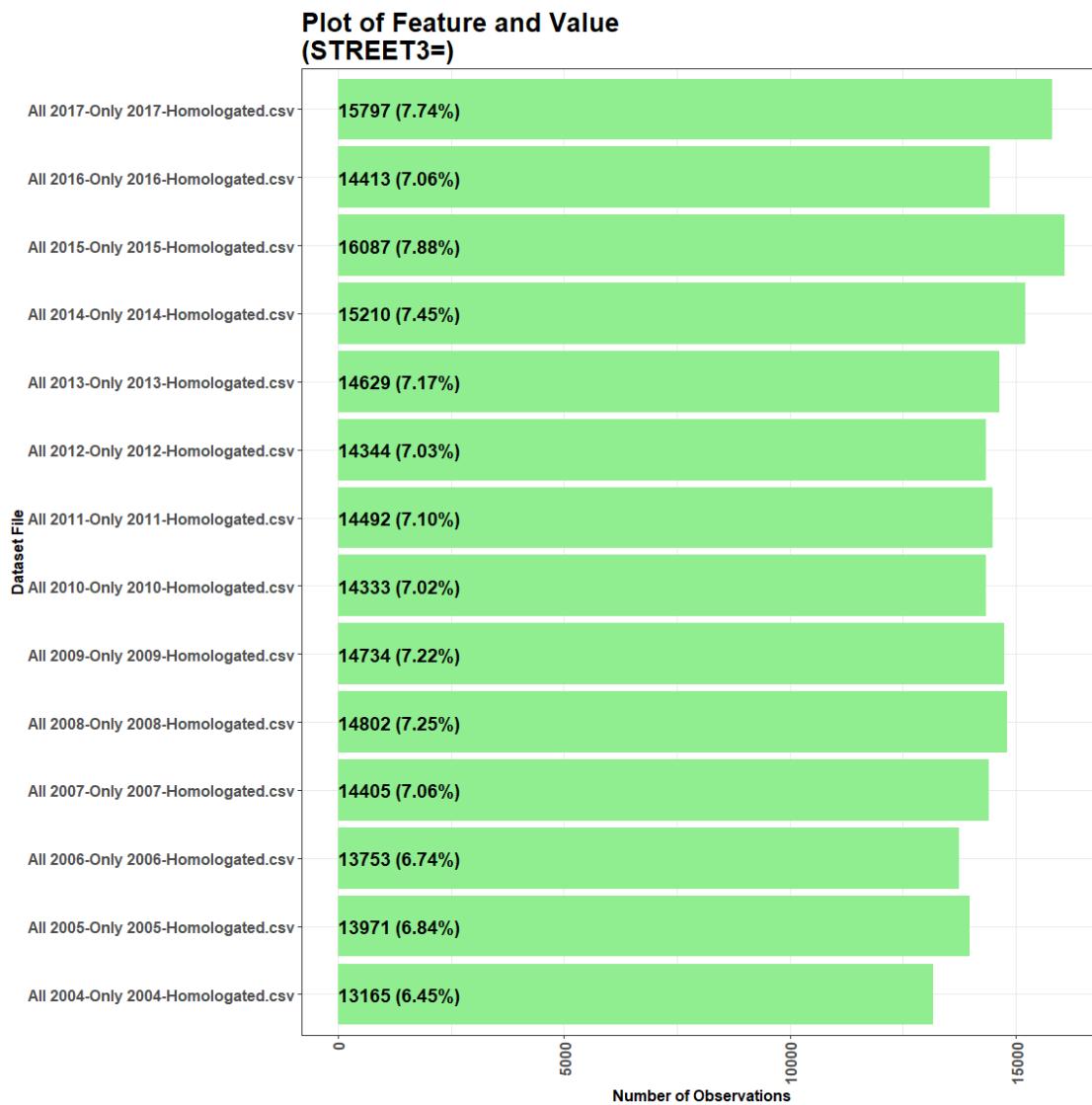
REGIONAL RD 174	514	0.1351
SOMERSET ST	512	0.1346
STAR TOP RD	512	0.1346
HWY 417 MAITLAN IC126R61	511	0.1343
HWY 417 CARLING IC124R76	510	0.1340
VANIER PKWY	510	0.1340
HWY 417 ROCHE S IC121BR16	506	0.1330
HWY 417 O'CONN IC119BR57	505	0.1327
RIDEAU RD	504	0.1325
HWY 417 WOODROF IC127R25	476	0.1251
HWY 417 CARLING IC124R57	468	0.1230
HWY 417 ST.LAUR IC115R36	467	0.1227
OTTAWA RIVER PKWY	462	0.1214
MONTREAL RD	458	0.1204
HWY 417 VANIER IC117R61	455	0.1196
HERON RD	443	0.1164
HWY 417 ROCHE S IC121BR51	434	0.1141
NO NAME	432	0.1135
HWY 417 MOODIE IC134R36	429	0.1127
FALLOWFIELD RD	420	0.1104
TENTH LINE RD	415	0.1091
BANK ST	397	0.1043
HWY 417 BOUNDARY IC96R16	397	0.1043
VIEWMOUNT DR	394	0.1035
MEADOWLANDS DR	393	0.1033
MARCH RD	391	0.1028
KING EDWARD AVE	388	0.1020
PERCY ST	383	0.1007
RIDEAU ST	377	0.0991
HWY 417 WOODROF IC127R51	374	0.0983
OR174 IC112 RAMP 51	371	0.0975
HWY 417 O'CONN IC119BR76	370	0.0972
GREENBANK RD	359	0.0943
HWY 417 ST.LAUR IC115R51	356	0.0936
LANCASTER RD	353	0.0928

ORLEANS BLVD	353	0.0928
HWY 416 ROGERSTE IC49R	351	0.0922
MCARTHUR AVE	346	0.0909
NELSON ST	332	0.0873
HWY 417 WOODROF IC127R67	330	0.0867
STARWOOD RD	328	0.0862
OGILVIE RD	325	0.0854
HUNT CLUB RD	323	0.0849
STRANDHERD DR	317	0.0833
HIGHBURY PARK	308	0.0809
HWY 417 WOODROF IC127R63	304	0.0799
TURN LANE	303	0.0796
SPRATT RD	302	0.0794
YORK ST	301	0.0791
ROCHESTER ST	300	0.0788
MELFORT ST	299	0.0786
NORICE ST	297	0.0781
ELGIN ST	290	0.0762
HWY 417 MOODIE IC134R61	286	0.0752
PARKDALE AVE	284	0.0746
HWY 417 NICHOLA IC118R76	283	0.0744
IRIS ST	276	0.0725
TRANSITWAY ON RAMP	269	0.0707
SUNNYSIDE AVE	267	0.0702
CARLING AVE	265	0.0696
THOMAS A. DOLAN PKWY	265	0.0696
DALHOUSIE ST	263	0.0691
WALLER ST	259	0.0681
HWY 417 GREENBA IC126R51	250	0.0657
PRESTON ST	250	0.0657
(Other)	127201	33.4300

32.1 STREET3 = "" (Blank)

```
##  
## ======  
## CHECKING FEATURE AND VALUE (STREET3=)  
##
```

```
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
## 13165 13971
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
## 13753 14405
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
## 14802 14734
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
## 14333 14492
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
## 14344 14629
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
## 15210 16087
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
## 14413 15797
```



DATASET FILE	COUNTER OF (STREET3=)	Percentage
All 2004-Only 2004-Homologated.csv	13165	6.449
All 2005-Only 2005-Homologated.csv	13971	6.844
All 2006-Only 2006-Homologated.csv	13753	6.737
All 2007-Only 2007-Homologated.csv	14405	7.057
All 2008-Only 2008-Homologated.csv	14802	7.251
All 2009-Only 2009-Homologated.csv	14734	7.218
All 2010-Only 2010-Homologated.csv	14333	7.021
All 2011-Only 2011-Homologated.csv	14492	7.099
All 2012-Only 2012-Homologated.csv	14344	7.027
All 2013-Only 2013-Homologated.csv	14629	7.166
All 2014-Only 2014-Homologated.csv	15210	7.451
All 2015-Only 2015-Homologated.csv	16087	7.881
All 2016-Only 2016-Homologated.csv	14413	7.061
All 2017-Only 2017-Homologated.csv	15797	7.739

33. Accident Date (ACCIDENT_DATE)

```
## 
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##           Min.      1st Qu.      Median      Mean      3rd Qu.
## "2004-01-01" "2004-03-08" "2004-06-29" "2004-06-30" "2004-10-19"
##           Max.
## "2004-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
```

## 2004-01-14	390	1.5193
## 2004-12-20	372	1.4492
## 2004-01-15	343	1.3362
## 2004-01-26	238	0.9272
## 2004-12-21	238	0.9272
## 2004-01-24	213	0.8298
## 2004-01-11	193	0.7519
## 2004-01-23	185	0.7207
## 2004-12-01	184	0.7168
## 2004-12-23	178	0.6934
## 2004-12-17	176	0.6857
## 2004-04-04	173	0.6740
## 2004-01-16	163	0.6350
## 2004-12-15	154	0.5999
## 2004-12-10	153	0.5960
## 2004-09-07	147	0.5727
## 2004-01-07	141	0.5493
## 2004-11-02	141	0.5493
## 2004-01-09	140	0.5454
## 2004-01-13	140	0.5454
## 2004-12-07	139	0.5415
## 2004-01-21	138	0.5376
## 2004-02-03	138	0.5376
## 2004-02-12	133	0.5181
## 2004-01-08	129	0.5026
## 2004-02-06	126	0.4909
## 2004-07-14	122	0.4753
## 2004-01-28	121	0.4714
## 2004-01-12	118	0.4597
## 2004-12-11	116	0.4519
## 2004-06-01	115	0.4480
## 2004-11-19	115	0.4480
## 2004-02-13	114	0.4441
## 2004-01-20	113	0.4402
## 2004-06-29	111	0.4324
## 2004-12-14	110	0.4285
## 2004-01-17	109	0.4246
## 2004-06-30	109	0.4246
## 2004-01-06	104	0.4052
## 2004-10-21	104	0.4052
## 2004-12-18	104	0.4052
## 2004-10-30	103	0.4013
## 2004-11-18	103	0.4013
## 2004-01-22	102	0.3974
## 2004-01-30	102	0.3974
## 2004-05-18	102	0.3974
## 2004-01-29	101	0.3935
## 2004-01-25	100	0.3896

## 2004-09-10	100	0.3896
## 2004-10-15	100	0.3896
## 2004-02-05	99	0.3857
## 2004-02-04	98	0.3818
## 2004-11-15	98	0.3818
## 2004-12-13	98	0.3818
## 2004-10-29	97	0.3779
## 2004-12-16	97	0.3779
## 2004-12-22	97	0.3779
## 2004-12-24	96	0.3740
## 2004-10-28	95	0.3701
## 2004-11-30	95	0.3701
## 2004-10-01	93	0.3623
## 2004-05-07	92	0.3584
## 2004-09-22	92	0.3584
## 2004-10-22	92	0.3584
## 2004-02-26	91	0.3545
## 2004-04-22	91	0.3545
## 2004-06-22	91	0.3545
## 2004-08-03	91	0.3545
## 2004-11-24	91	0.3545
## 2004-05-28	90	0.3506
## 2004-02-02	89	0.3467
## 2004-11-23	89	0.3467
## 2004-11-26	89	0.3467
## 2004-06-24	88	0.3428
## 2004-11-17	88	0.3428
## 2004-12-03	88	0.3428
## 2004-01-18	87	0.3389
## 2004-04-23	87	0.3389
## 2004-09-24	87	0.3389
## 2004-11-04	87	0.3389
## 2004-04-05	86	0.3350
## 2004-11-12	86	0.3350
## 2004-09-23	85	0.3311
## 2004-10-07	85	0.3311
## 2004-12-09	85	0.3311
## 2004-01-19	84	0.3272
## 2004-06-03	84	0.3272
## 2004-02-23	83	0.3233
## 2004-09-15	83	0.3233
## 2004-10-02	83	0.3233
## 2004-10-20	83	0.3233
## 2004-11-05	83	0.3233
## 2004-12-04	83	0.3233
## 2004-02-27	82	0.3195
## 2004-05-13	82	0.3195
## 2004-06-18	82	0.3195

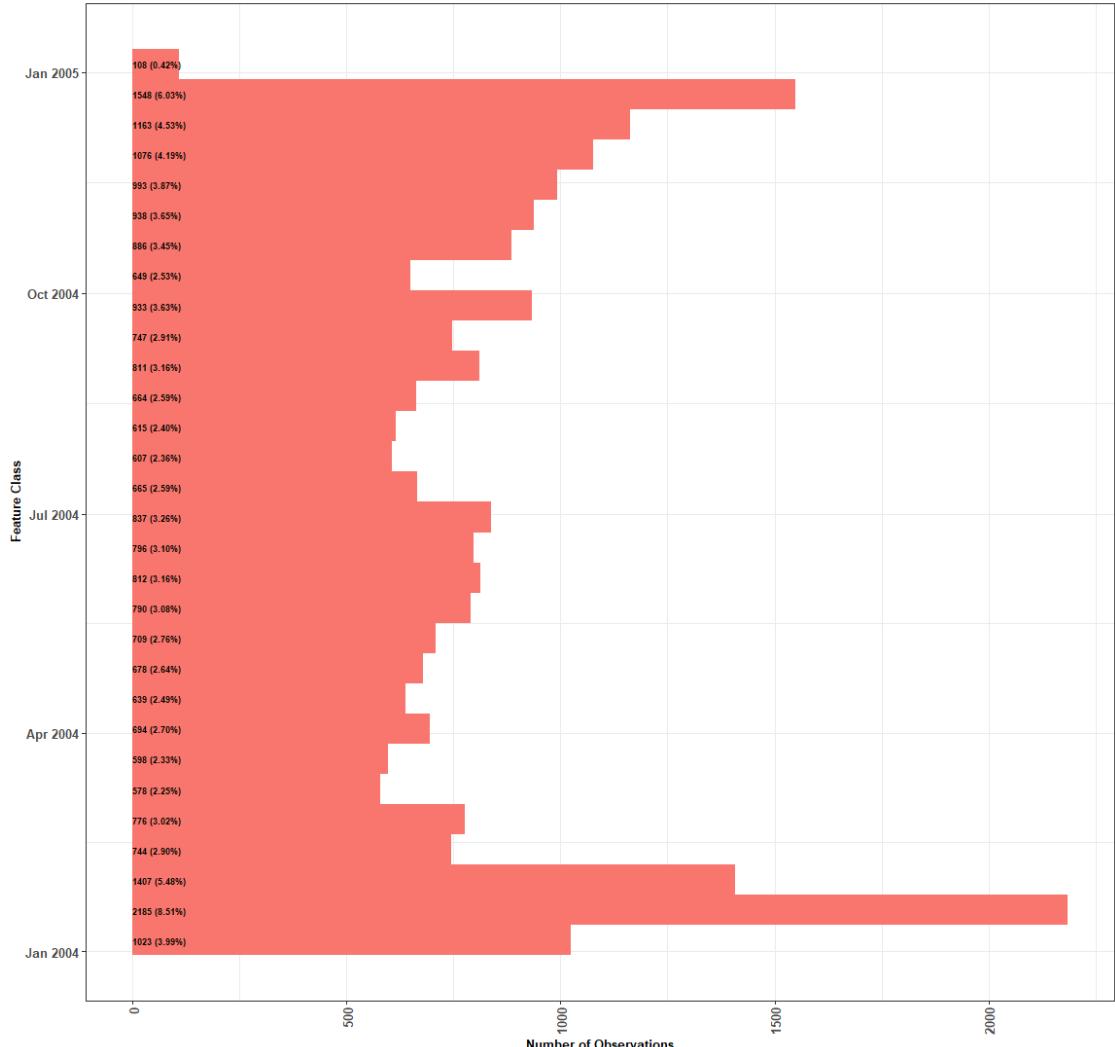
```

## 2004-09-29          82      0.3195
## 2004-11-20          81      0.3156
## 2004-01-05          80      0.3117
## (Other)           13861     53.9990

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

```

Plot of Feature:ACCIDENT_DATE
Data:All 2004-Only 2004-Homologated.csv



```

##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
## 
```

```

## Summary as Date Feature:
##
##           Min.      1st Qu.       Median        Mean      3rd Qu.
## "2005-01-01" "2005-03-18" "2005-07-06" "2005-07-04" "2005-10-16"
##           Max.
## "2005-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2005-01-21       414     1.5561
## 2005-11-24       226     0.8495
## 2005-01-28       220     0.8269
## 2005-01-27       219     0.8232
## 2005-03-01       205     0.7705
## 2005-11-18       195     0.7329
## 2005-03-07       194     0.7292
## 2005-12-15       176     0.6615
## 2005-05-27       164     0.6164
## 2005-01-19       162     0.6089
## 2005-09-16       160     0.6014
## 2005-02-18       157     0.5901
## 2005-11-17       157     0.5901
## 2005-12-13       157     0.5901
## 2005-01-26       155     0.5826
## 2005-10-13       155     0.5826
## 2005-01-20       152     0.5713
## 2005-12-21       152     0.5713
## 2005-12-09       149     0.5600
## 2005-12-08       147     0.5525
## 2005-08-12       142     0.5337
## 2005-10-07       142     0.5337
## 2005-12-23       138     0.5187
## 2005-11-25       135     0.5074
## 2005-12-06       135     0.5074
## 2005-12-19       135     0.5074
## 2005-01-07       133     0.4999
## 2005-12-16       132     0.4961
## 2005-06-14       131     0.4924
## 2005-01-22       129     0.4849
## 2005-12-14       126     0.4736
## 2005-11-09       125     0.4698
## 2005-03-03       124     0.4661

```

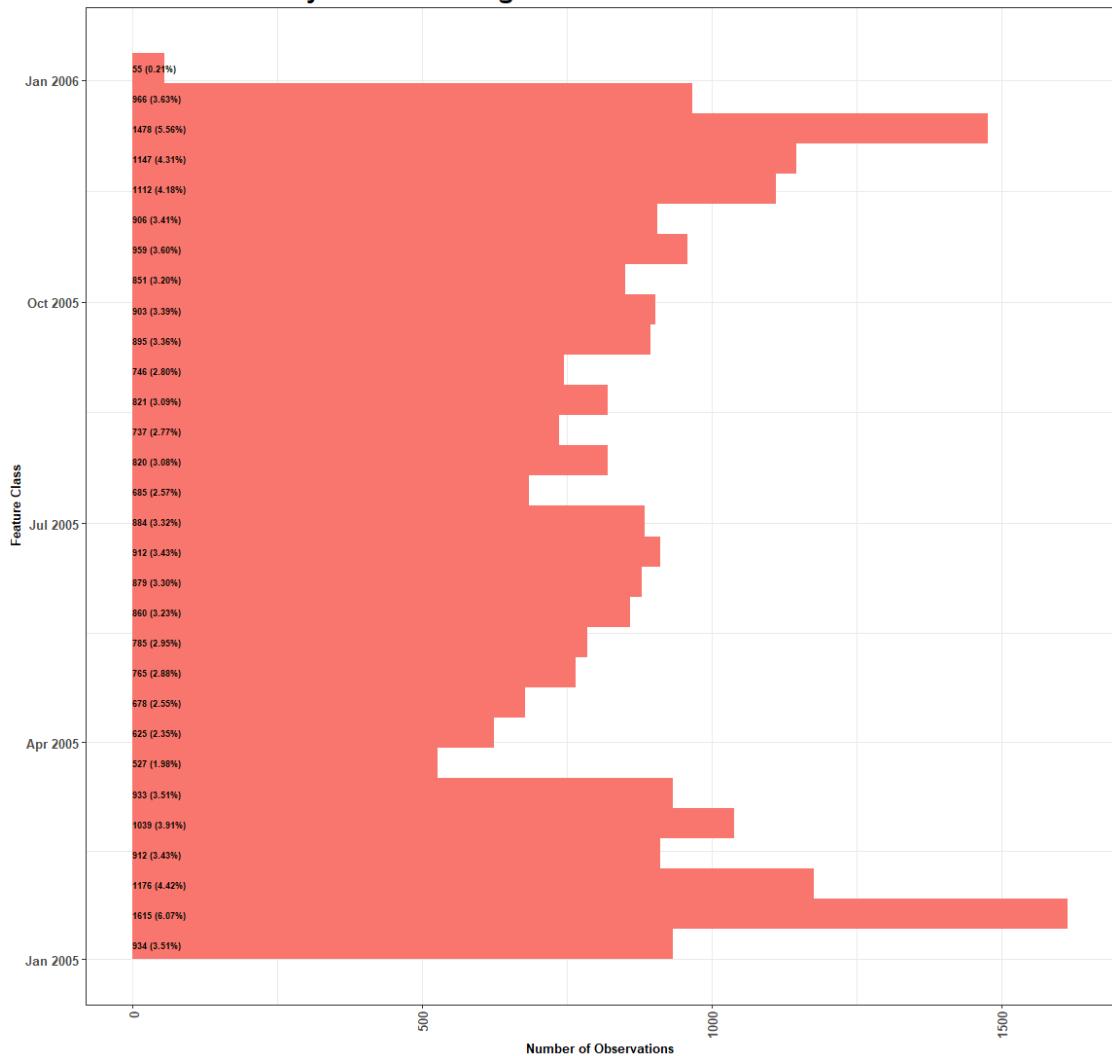
## 2005-08-19	124	0.4661
## 2005-12-12	117	0.4398
## 2005-02-01	116	0.4360
## 2005-12-20	114	0.4285
## 2005-02-10	113	0.4247
## 2005-12-02	113	0.4247
## 2005-06-21	111	0.4172
## 2005-11-28	111	0.4172
## 2005-11-03	110	0.4135
## 2005-01-11	109	0.4097
## 2005-02-04	109	0.4097
## 2005-09-08	108	0.4059
## 2005-06-24	107	0.4022
## 2005-01-23	106	0.3984
## 2005-12-07	106	0.3984
## 2005-06-29	105	0.3947
## 2005-10-21	105	0.3947
## 2005-03-09	104	0.3909
## 2005-06-15	104	0.3909
## 2005-06-17	103	0.3871
## 2005-11-16	102	0.3834
## 2005-10-18	101	0.3796
## 2005-06-01	100	0.3759
## 2005-09-17	100	0.3759
## 2005-09-29	100	0.3759
## 2005-02-14	98	0.3684
## 2005-10-19	97	0.3646
## 2005-07-06	96	0.3608
## 2005-10-14	96	0.3608
## 2005-03-08	95	0.3571
## 2005-08-02	95	0.3571
## 2005-01-06	94	0.3533
## 2005-11-01	94	0.3533
## 2005-01-17	93	0.3496
## 2005-02-21	93	0.3496
## 2005-07-21	93	0.3496
## 2005-01-18	92	0.3458
## 2005-01-25	92	0.3458
## 2005-02-02	92	0.3458
## 2005-11-29	92	0.3458
## 2005-11-15	91	0.3420
## 2005-09-30	90	0.3383
## 2005-04-28	89	0.3345
## 2005-07-25	89	0.3345
## 2005-01-12	88	0.3308
## 2005-02-24	88	0.3308
## 2005-09-22	88	0.3308
## 2005-03-10	87	0.3270



```
## 2005-07-05          87    0.3270
## 2005-11-04          87    0.3270
## 2005-01-31          86    0.3232
## 2005-02-23          86    0.3232
## 2005-06-02          86    0.3232
## 2005-06-08          86    0.3232
## 2005-06-30          86    0.3232
## 2005-12-22          86    0.3232
## 2005-05-20          85    0.3195
## 2005-09-23          85    0.3195
## 2005-10-25          85    0.3195
## 2005-06-09          84    0.3157
## 2005-05-25          83    0.3120
## 2005-09-09          83    0.3120
## 2005-12-05          83    0.3120
## 2005-06-03          82    0.3082
## 2005-10-05          82    0.3082
## 2005-01-14          81    0.3045
## (Other)            14819  55.7001

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

Plot of Feature:ACCIDENT_DATE Data:All 2005-Only 2005-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##           Min.     1st Qu.      Median        Mean      3rd Qu.
## "2006-01-01" "2006-03-30" "2006-07-09" "2006-07-06" "2006-10-14"
##          Max.
## "2006-12-31"
```

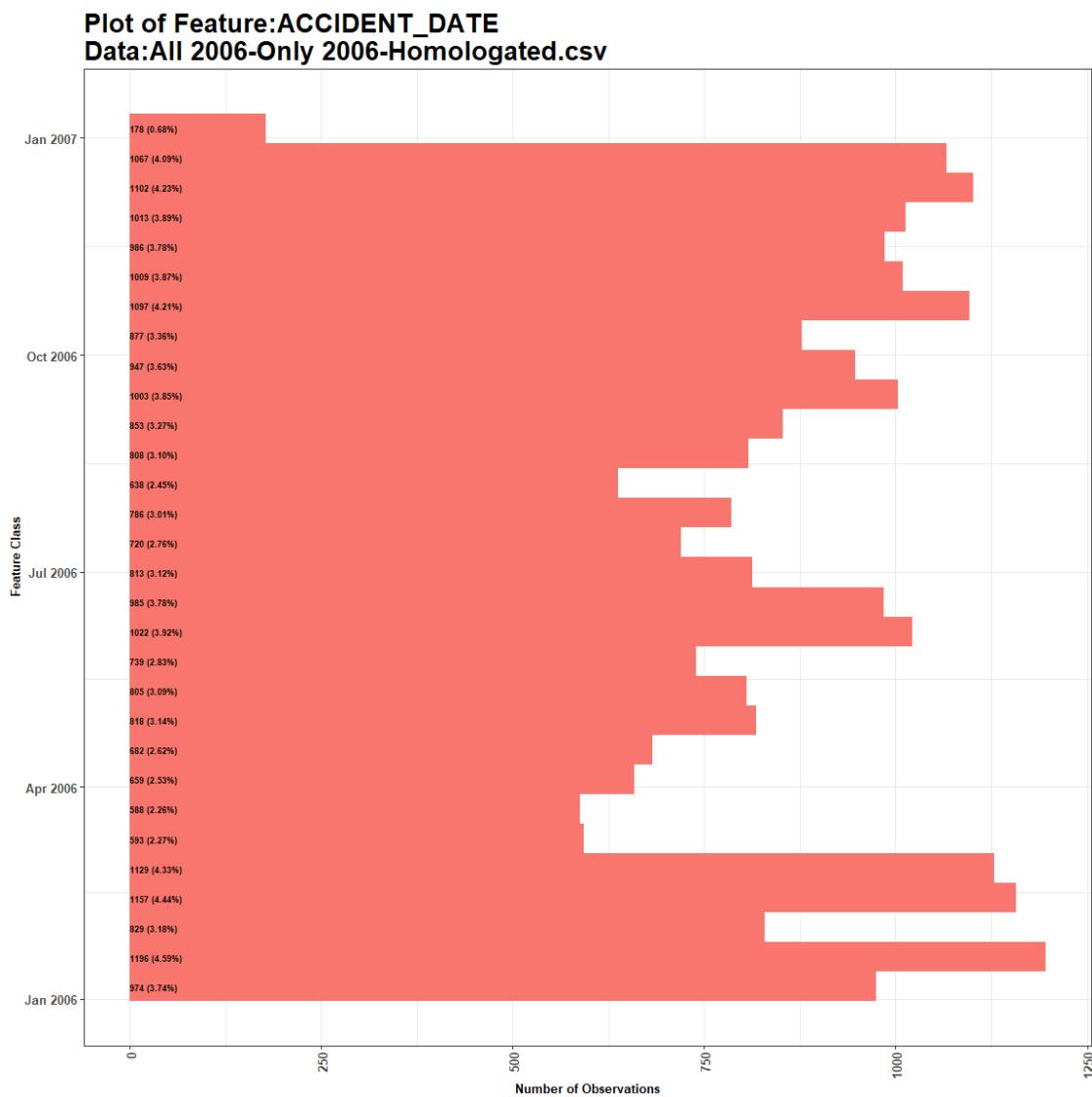
```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF ACCIDENT_DATE  
##  
## Feature Value Counter Percentage  
## -----  
## 2006-12-22 347 1.3309  
## 2006-02-17 202 0.7747  
## 2006-01-18 162 0.6213  
## 2006-09-13 157 0.6022  
## 2006-01-21 156 0.5983  
## 2006-01-11 151 0.5791  
## 2006-06-09 151 0.5791  
## 2006-02-27 144 0.5523  
## 2006-09-08 135 0.5178  
## 2006-09-28 134 0.5139  
## 2006-11-30 132 0.5063  
## 2006-01-27 130 0.4986  
## 2006-11-08 129 0.4948  
## 2006-12-15 129 0.4948  
## 2006-02-24 128 0.4909  
## 2006-02-16 126 0.4833  
## 2006-12-07 125 0.4794  
## 2006-06-03 124 0.4756  
## 2006-11-16 124 0.4756  
## 2006-02-14 122 0.4679  
## 2006-10-04 120 0.4602  
## 2006-01-26 118 0.4526  
## 2006-02-20 117 0.4487  
## 2006-10-28 117 0.4487  
## 2006-10-11 116 0.4449  
## 2006-12-01 114 0.4372  
## 2006-12-08 114 0.4372  
## 2006-11-29 112 0.4296  
## 2006-11-24 111 0.4257  
## 2006-06-16 110 0.4219  
## 2006-01-09 109 0.4181  
## 2006-01-23 108 0.4142  
## 2006-06-13 108 0.4142  
## 2006-01-17 107 0.4104  
## 2006-11-23 106 0.4066  
## 2006-01-10 105 0.4027  
## 2006-02-18 105 0.4027  
## 2006-02-10 104 0.3989  
## 2006-05-31 104 0.3989
```

## 2006-10-20	104	0.3989
## 2006-11-07	104	0.3989
## 2006-12-09	104	0.3989
## 2006-12-21	104	0.3989
## 2006-06-27	103	0.3950
## 2006-11-17	103	0.3950
## 2006-01-04	102	0.3912
## 2006-02-28	102	0.3912
## 2006-10-17	102	0.3912
## 2006-11-14	101	0.3874
## 2006-11-27	101	0.3874
## 2006-12-30	101	0.3874
## 2006-01-06	100	0.3835
## 2006-04-26	100	0.3835
## 2006-05-04	100	0.3835
## 2006-05-12	100	0.3835
## 2006-06-23	100	0.3835
## 2006-05-29	99	0.3797
## 2006-11-02	99	0.3797
## 2006-12-20	99	0.3797
## 2006-10-23	98	0.3759
## 2006-11-03	98	0.3759
## 2006-02-25	97	0.3720
## 2006-07-27	97	0.3720
## 2006-12-19	97	0.3720
## 2006-09-20	96	0.3682
## 2006-09-29	96	0.3682
## 2006-11-21	96	0.3682
## 2006-12-28	96	0.3682
## 2006-06-02	95	0.3644
## 2006-06-29	95	0.3644
## 2006-10-16	95	0.3644
## 2006-10-19	95	0.3644
## 2006-06-06	94	0.3605
## 2006-07-25	94	0.3605
## 2006-09-05	94	0.3605
## 2006-11-01	94	0.3605
## 2006-11-09	94	0.3605
## 2006-03-01	93	0.3567
## 2006-06-19	93	0.3567
## 2006-12-12	93	0.3567
## 2006-12-14	93	0.3567
## 2006-02-21	92	0.3529
## 2006-11-10	92	0.3529
## 2006-10-27	91	0.3490
## 2006-06-20	90	0.3452
## 2006-07-21	90	0.3452
## 2006-09-14	90	0.3452

```

## 2006-10-05          90    0.3452
## 2006-01-19          89    0.3413
## 2006-01-25          89    0.3413
## 2006-05-20          89    0.3413
## 2006-09-01          89    0.3413
## 2006-02-19          88    0.3375
## 2006-04-22          88    0.3375
## 2006-06-15          88    0.3375
## 2006-10-12          88    0.3375
## 2006-03-17          87    0.3337
## 2006-10-14          87    0.3337
## 2006-10-18          87    0.3337
## (Other)           15235   58.4321

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



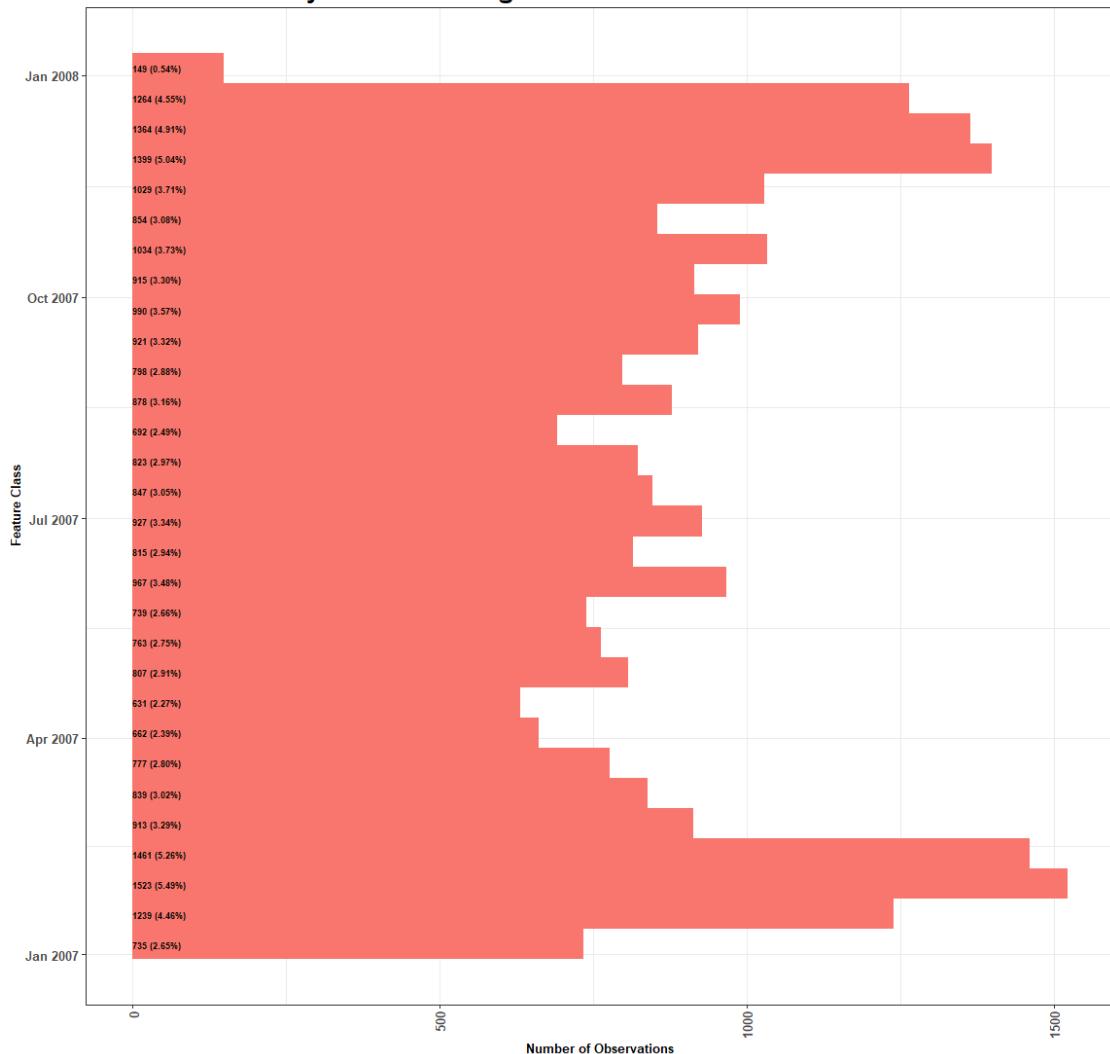
```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##      Min.    1st Qu.    Median    Mean    3rd Qu.
## "2007-01-01" "2007-03-18" "2007-07-08" "2007-07-05" "2007-10-17"
##      Max.
## "2007-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2007-02-14       261     0.9404
## 2007-11-29       251     0.9043
## 2007-12-17       218     0.7854
## 2007-02-09       212     0.7638
## 2007-12-19       210     0.7566
## 2007-01-25       185     0.6665
## 2007-02-07       185     0.6665
## 2007-01-29       183     0.6593
## 2007-12-11       177     0.6377
## 2007-01-26       171     0.6161
## 2007-11-22       167     0.6017
## 2007-01-31       164     0.5909
## 2007-03-02       159     0.5729
## 2007-02-05       158     0.5693
## 2007-12-27       158     0.5693
## 2007-11-30       154     0.5549
## 2007-01-30       152     0.5476
## 2007-12-06       147     0.5296
## 2007-12-05       145     0.5224
## 2007-01-23       143     0.5152
## 2007-01-15       140     0.5044
## 2007-06-04       138     0.4972
## 2007-12-21       138     0.4972
## 2007-01-17       134     0.4828
```

## 2007-11-28	133	0.4792
## 2007-12-14	133	0.4792
## 2007-01-22	131	0.4720
## 2007-09-11	128	0.4612
## 2007-12-20	127	0.4576
## 2007-11-14	126	0.4540
## 2007-12-18	125	0.4504
## 2007-02-15	124	0.4468
## 2007-02-16	124	0.4468
## 2007-10-19	124	0.4468
## 2007-01-24	122	0.4396
## 2007-07-04	121	0.4360
## 2007-08-24	120	0.4324
## 2007-10-09	120	0.4324
## 2007-10-11	118	0.4251
## 2007-11-27	117	0.4215
## 2007-12-13	117	0.4215
## 2007-02-01	116	0.4179
## 2007-07-12	116	0.4179
## 2007-11-21	114	0.4107
## 2007-01-16	113	0.4071
## 2007-02-08	110	0.3963
## 2007-09-20	109	0.3927
## 2007-10-13	108	0.3891
## 2007-11-01	108	0.3891
## 2007-12-16	108	0.3891
## 2007-11-05	107	0.3855
## 2007-12-01	107	0.3855
## 2007-10-25	106	0.3819
## 2007-08-17	105	0.3783
## 2007-10-23	105	0.3783
## 2007-02-19	104	0.3747
## 2007-11-13	104	0.3747
## 2007-09-21	103	0.3711
## 2007-01-19	102	0.3675
## 2007-04-05	102	0.3675
## 2007-08-23	102	0.3675
## 2007-09-28	102	0.3675
## 2007-12-15	102	0.3675
## 2007-02-02	101	0.3639
## 2007-12-03	101	0.3639
## 2007-07-06	100	0.3603
## 2007-11-23	100	0.3603
## 2007-11-26	100	0.3603
## 2007-03-17	99	0.3567
## 2007-10-27	98	0.3531
## 2007-09-18	97	0.3495
## 2007-12-12	97	0.3495

```
## 2007-06-27          96    0.3459
## 2007-06-29          96    0.3459
## 2007-05-31          95    0.3423
## 2007-08-16          95    0.3423
## 2007-08-30          95    0.3423
## 2007-03-05          94    0.3387
## 2007-08-08          94    0.3387
## 2007-08-31          94    0.3387
## 2007-10-04          94    0.3387
## 2007-05-11          93    0.3351
## 2007-10-31          92    0.3315
## 2007-11-09          92    0.3315
## 2007-06-08          91    0.3279
## 2007-09-24          91    0.3279
## 2007-02-20          90    0.3243
## 2007-02-21          90    0.3243
## 2007-06-05          90    0.3243
## 2007-06-19          90    0.3243
## 2007-08-10          90    0.3243
## 2007-09-27          90    0.3243
## 2007-01-11          89    0.3207
## 2007-02-23          89    0.3207
## 2007-03-06          88    0.3171
## 2007-06-07          88    0.3171
## 2007-07-09          88    0.3171
## 2007-07-16          88    0.3171
## 2007-07-20          88    0.3171
## (Other)           15779   56.8510

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

Plot of Feature:ACCIDENT_DATE Data:All 2007-Only 2007-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##           Min.     1st Qu.      Median        Mean      3rd Qu.
## "2008-01-01" "2008-03-17" "2008-07-04" "2008-07-05" "2008-10-17"
##          Max.
## "2008-12-31"
```

```

##  

## Summary as Factor Feature:  

##  

## Number of Features: 100  

##  

## TOP 100 FEATURES OF ACCIDENT_DATE  

##  

## Feature Value      Counter   Percentage  

## -----  

## 2008-01-22          229      0.8035  

## 2008-03-07          208      0.7298  

## 2008-02-07          189      0.6631  

## 2008-12-22          184      0.6456  

## 2008-12-11          172      0.6035  

## 2008-02-27          167      0.5859  

## 2008-03-10          167      0.5859  

## 2008-02-13          158      0.5543  

## 2008-12-09          158      0.5543  

## 2008-12-19          157      0.5508  

## 2008-12-17          155      0.5438  

## 2008-12-20          154      0.5403  

## 2008-12-05          153      0.5368  

## 2008-03-01          150      0.5263  

## 2008-12-27          150      0.5263  

## 2008-12-12          149      0.5228  

## 2008-12-02          147      0.5158  

## 2008-12-08          147      0.5158  

## 2008-02-15          144      0.5052  

## 2008-02-26          143      0.5017  

## 2008-03-11          142      0.4982  

## 2008-12-10          141      0.4947  

## 2008-12-13          140      0.4912  

## 2008-12-23          137      0.4807  

## 2008-11-25          135      0.4737  

## 2008-11-18          134      0.4701  

## 2008-03-14          129      0.4526  

## 2008-03-03          128      0.4491  

## 2008-03-13          128      0.4491  

## 2008-10-09          127      0.4456  

## 2008-11-28          125      0.4386  

## 2008-03-06          124      0.4351  

## 2008-09-30          122      0.4280  

## 2008-12-21          122      0.4280  

## 2008-03-20          120      0.4210  

## 2008-10-31          119      0.4175  

## 2008-02-28          118      0.4140  

## 2008-01-03          117      0.4105  

## 2008-02-14          116      0.4070

```

## 2008-10-30	116	0.4070
## 2008-02-21	115	0.4035
## 2008-02-20	114	0.4000
## 2008-01-24	110	0.3859
## 2008-10-10	110	0.3859
## 2008-02-02	109	0.3824
## 2008-11-21	109	0.3824
## 2008-12-16	109	0.3824
## 2008-01-25	108	0.3789
## 2008-02-01	108	0.3789
## 2008-02-22	108	0.3789
## 2008-09-08	108	0.3789
## 2008-08-14	107	0.3754
## 2008-09-06	107	0.3754
## 2008-10-28	107	0.3754
## 2008-11-13	106	0.3719
## 2008-01-02	105	0.3684
## 2008-10-29	105	0.3684
## 2008-11-06	105	0.3684
## 2008-12-18	105	0.3684
## 2008-02-29	104	0.3649
## 2008-11-24	103	0.3614
## 2008-01-31	102	0.3579
## 2008-03-19	102	0.3579
## 2008-07-18	102	0.3579
## 2008-10-21	102	0.3579
## 2008-01-14	101	0.3544
## 2008-03-31	101	0.3544
## 2008-02-11	100	0.3509
## 2008-06-11	100	0.3509
## 2008-06-23	99	0.3473
## 2008-10-07	99	0.3473
## 2008-11-07	99	0.3473
## 2008-11-26	99	0.3473
## 2008-12-04	99	0.3473
## 2008-11-14	98	0.3438
## 2008-11-27	98	0.3438
## 2008-12-14	98	0.3438
## 2008-02-06	97	0.3403
## 2008-03-17	97	0.3403
## 2008-06-20	97	0.3403
## 2008-10-16	97	0.3403
## 2008-01-23	96	0.3368
## 2008-03-05	96	0.3368
## 2008-06-06	96	0.3368
## 2008-06-17	96	0.3368
## 2008-09-16	96	0.3368
## 2008-10-23	96	0.3368

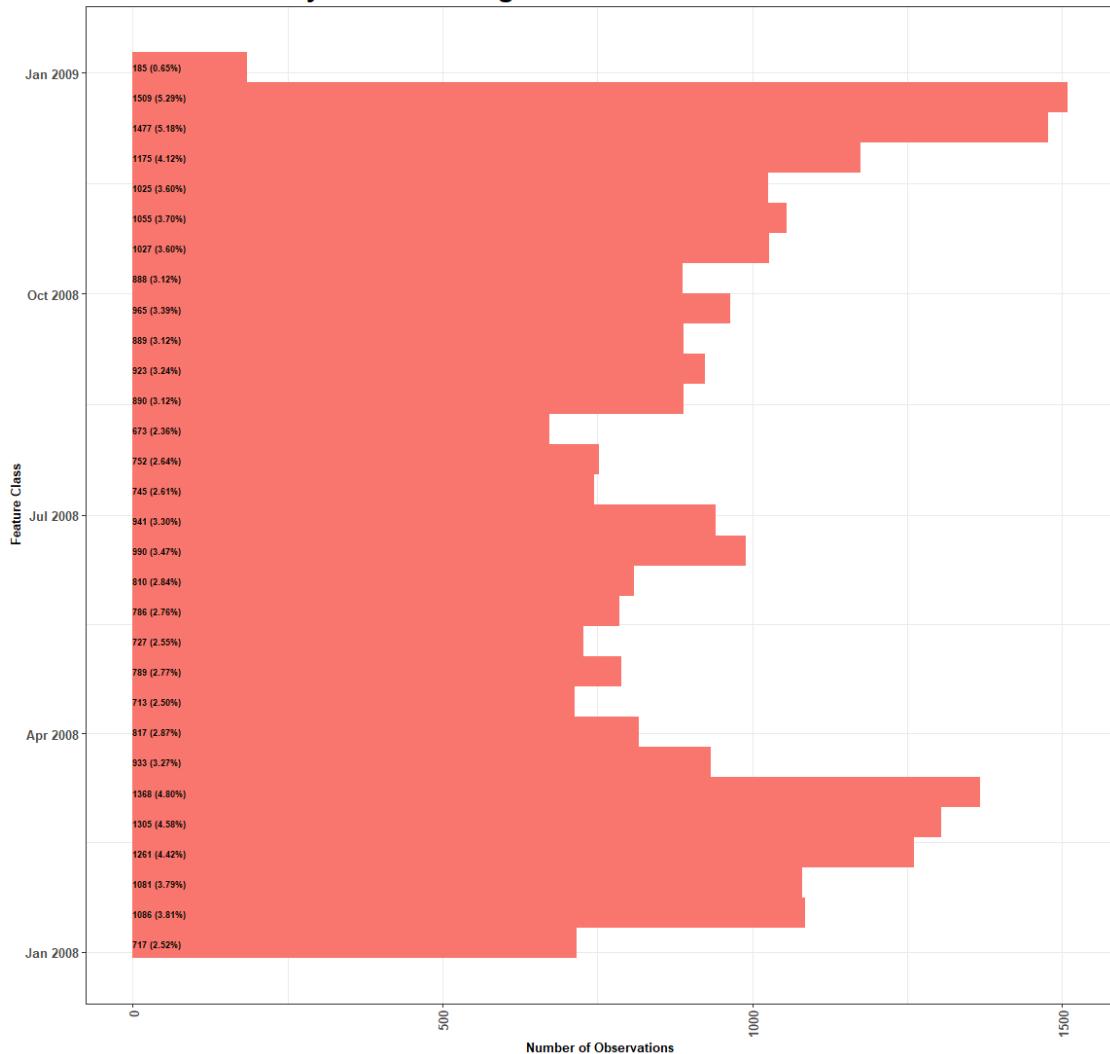
```

## 2008-11-12          96    0.3368
## 2008-02-19          95    0.3333
## 2008-04-01          95    0.3333
## 2008-10-17          95    0.3333
## 2008-10-20          95    0.3333
## 2008-01-16          94    0.3298
## 2008-09-05          94    0.3298
## 2008-02-12          93    0.3263
## 2008-09-19          93    0.3263
## 2008-08-15          92    0.3228
## 2008-09-12          92    0.3228
## 2008-02-09          91    0.3193
## (Other)           16731   58.7011

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

```

Plot of Feature:ACCIDENT_DATE
Data:All 2008-Only 2008-Homologated.csv



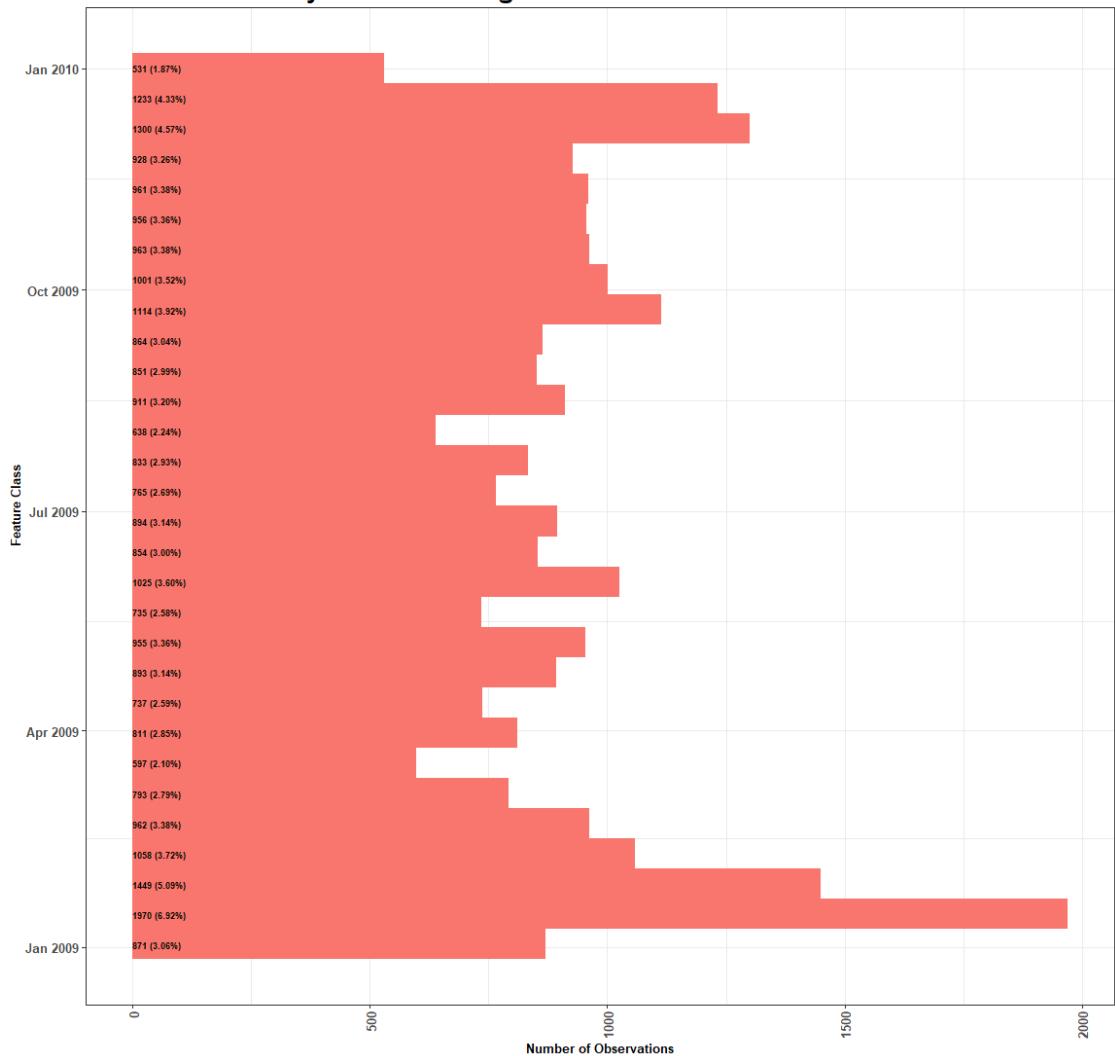
```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##      Min.    1st Qu.    Median    Mean    3rd Qu.
## "2009-01-01" "2009-03-13" "2009-06-28" "2009-06-28" "2009-10-08"
##          Max.
## "2009-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2009-01-15       399     1.4023
## 2009-01-16       282     0.9911
## 2009-01-28       231     0.8119
## 2009-12-18       211     0.7416
## 2009-02-05       200     0.7029
## 2009-05-27       184     0.6467
## 2009-12-30       176     0.6186
## 2009-01-30       175     0.6150
## 2009-12-09       170     0.5975
## 2009-01-07       167     0.5869
## 2009-01-27       162     0.5694
## 2009-04-07       162     0.5694
## 2009-01-26       157     0.5518
## 2009-01-02       156     0.5483
## 2009-01-29       156     0.5483
## 2009-02-18       152     0.5342
## 2009-10-09       152     0.5342
## 2009-02-03       145     0.5096
## 2009-01-06       144     0.5061
## 2009-01-13       144     0.5061
## 2009-01-08       142     0.4991
## 2009-01-09       138     0.4850
## 2009-01-14       138     0.4850
## 2009-01-20       138     0.4850
```

## 2009-12-11	137	0.4815
## 2009-12-21	136	0.4780
## 2009-01-18	133	0.4674
## 2009-12-10	133	0.4674
## 2009-12-15	133	0.4674
## 2009-02-27	131	0.4604
## 2009-06-18	127	0.4464
## 2009-10-30	124	0.4358
## 2009-01-19	123	0.4323
## 2009-09-25	122	0.4288
## 2009-11-20	122	0.4288
## 2009-12-17	122	0.4288
## 2009-01-10	120	0.4217
## 2009-07-24	119	0.4182
## 2009-09-23	119	0.4182
## 2009-12-07	119	0.4182
## 2009-11-25	118	0.4147
## 2009-01-24	117	0.4112
## 2009-05-20	117	0.4112
## 2009-07-07	116	0.4077
## 2009-11-27	116	0.4077
## 2009-12-12	116	0.4077
## 2009-09-18	112	0.3936
## 2009-09-29	112	0.3936
## 2009-02-04	111	0.3901
## 2009-07-03	111	0.3901
## 2009-12-16	111	0.3901
## 2009-01-31	109	0.3831
## 2009-12-23	109	0.3831
## 2009-06-23	108	0.3796
## 2009-10-23	108	0.3796
## 2009-11-05	108	0.3796
## 2009-02-06	107	0.3761
## 2009-08-21	107	0.3761
## 2009-10-22	107	0.3761
## 2009-11-19	106	0.3725
## 2009-11-03	105	0.3690
## 2009-09-14	104	0.3655
## 2009-10-16	104	0.3655
## 2009-11-12	104	0.3655
## 2009-10-07	103	0.3620
## 2009-10-28	103	0.3620
## 2009-07-09	102	0.3585
## 2009-09-04	102	0.3585
## 2009-09-24	102	0.3585
## 2009-09-30	102	0.3585
## 2009-11-18	102	0.3585
## 2009-12-03	102	0.3585

```
## 2009-05-07      101    0.3550
## 2009-02-25      100    0.3515
## 2009-01-17       99    0.3479
## 2009-04-20       99    0.3479
## 2009-06-04       98    0.3444
## 2009-08-31       98    0.3444
## 2009-10-24       98    0.3444
## 2009-05-29       97    0.3409
## 2009-12-02       97    0.3409
## 2009-10-06       96    0.3374
## 2009-10-08       96    0.3374
## 2009-01-03       94    0.3304
## 2009-02-19       94    0.3304
## 2009-05-12       94    0.3304
## 2009-05-28       94    0.3304
## 2009-01-12       93    0.3269
## 2009-04-27       93    0.3269
## 2009-08-18       93    0.3269
## 2009-10-13       93    0.3269
## 2009-05-14       92    0.3233
## 2009-06-12       92    0.3233
## 2009-06-24       92    0.3233
## 2009-07-02       92    0.3233
## 2009-08-12       92    0.3233
## 2009-08-27       92    0.3233
## 2009-09-16       92    0.3233
## 2009-11-10       92    0.3233
## (Other)          16128   56.6830

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

Plot of Feature:ACCIDENT_DATE Data:All 2009-Only 2009-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_DATE  
## DATA:All 2010-Only 2010-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Date Feature:  
##  
##      Min.    1st Qu.      Median      Mean      3rd Qu.  
## "2010-01-01" "2010-04-07" "2010-07-13" "2010-07-09" "2010-10-15"  
##      Max.  
## "2010-12-31"
```

```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF ACCIDENT_DATE  
##  
## Feature Value Counter Percentage  
## -----  
## 2010-02-25 210 0.7641  
## 2010-12-14 191 0.6950  
## 2010-01-29 181 0.6586  
## 2010-01-28 180 0.6550  
## 2010-12-09 161 0.5858  
## 2010-11-26 154 0.5603  
## 2010-06-30 153 0.5567  
## 2010-09-30 149 0.5422  
## 2010-12-08 145 0.5276  
## 2010-10-06 144 0.5240  
## 2010-06-24 139 0.5058  
## 2010-10-15 138 0.5021  
## 2010-11-10 136 0.4949  
## 2010-08-03 133 0.4839  
## 2010-02-01 128 0.4657  
## 2010-09-03 128 0.4657  
## 2010-09-16 128 0.4657  
## 2010-12-15 127 0.4621  
## 2010-06-23 126 0.4585  
## 2010-11-23 124 0.4512  
## 2010-11-12 122 0.4439  
## 2010-12-10 121 0.4403  
## 2010-12-13 120 0.4366  
## 2010-04-23 118 0.4294  
## 2010-01-03 117 0.4257  
## 2010-10-12 117 0.4257  
## 2010-11-29 117 0.4257  
## 2010-06-16 116 0.4221  
## 2010-02-23 114 0.4148  
## 2010-07-09 112 0.4075  
## 2010-12-22 112 0.4075  
## 2010-06-17 111 0.4039  
## 2010-05-08 110 0.4002  
## 2010-10-01 110 0.4002  
## 2010-11-04 110 0.4002  
## 2010-12-21 110 0.4002  
## 2010-01-21 109 0.3966  
## 2010-02-03 109 0.3966  
## 2010-02-11 109 0.3966
```

## 2010-06-01	109	0.3966
## 2010-10-27	109	0.3966
## 2010-12-07	109	0.3966
## 2010-10-05	108	0.3930
## 2010-02-05	106	0.3857
## 2010-05-25	106	0.3857
## 2010-12-06	105	0.3821
## 2010-06-10	104	0.3784
## 2010-09-15	104	0.3784
## 2010-11-05	104	0.3784
## 2010-02-26	103	0.3748
## 2010-09-24	103	0.3748
## 2010-11-02	103	0.3748
## 2010-11-21	103	0.3748
## 2010-12-01	103	0.3748
## 2010-10-07	102	0.3711
## 2010-11-03	102	0.3711
## 2010-11-15	102	0.3711
## 2010-08-24	101	0.3675
## 2010-10-30	101	0.3675
## 2010-02-02	100	0.3639
## 2010-10-18	100	0.3639
## 2010-10-26	100	0.3639
## 2010-11-17	100	0.3639
## 2010-02-17	99	0.3602
## 2010-11-24	99	0.3602
## 2010-01-13	98	0.3566
## 2010-04-01	98	0.3566
## 2010-12-23	97	0.3529
## 2010-01-07	96	0.3493
## 2010-01-08	96	0.3493
## 2010-05-13	96	0.3493
## 2010-06-29	96	0.3493
## 2010-09-07	96	0.3493
## 2010-10-21	96	0.3493
## 2010-12-16	96	0.3493
## 2010-03-26	95	0.3457
## 2010-04-27	95	0.3457
## 2010-07-05	95	0.3457
## 2010-09-02	95	0.3457
## 2010-09-22	94	0.3420
## 2010-12-20	94	0.3420
## 2010-08-04	93	0.3384
## 2010-08-13	93	0.3384
## 2010-11-19	93	0.3384
## 2010-05-19	92	0.3348
## 2010-11-09	92	0.3348
## 2010-01-30	91	0.3311

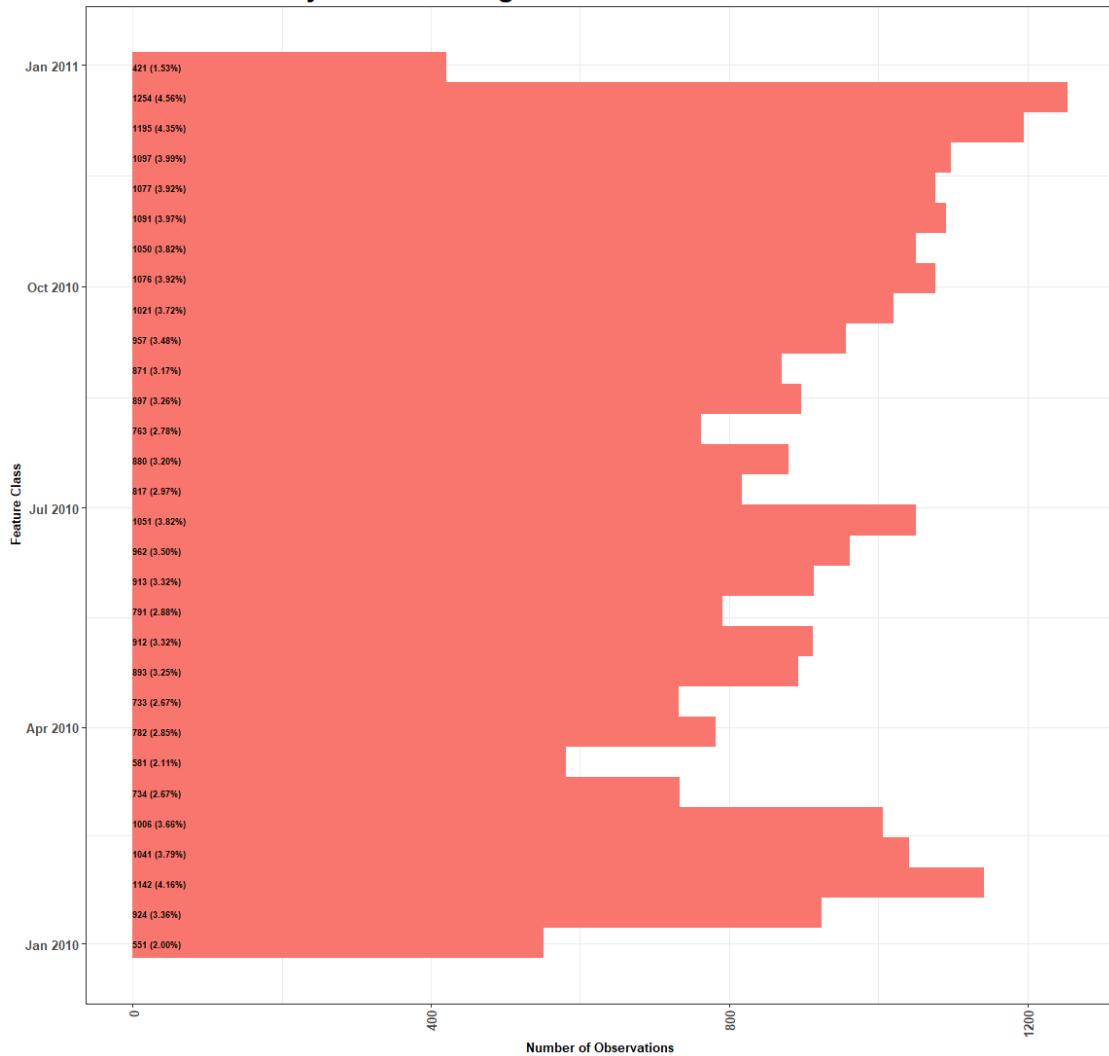
```

## 2010-06-14      91    0.3311
## 2010-06-18      91    0.3311
## 2010-07-15      91    0.3311
## 2010-08-19      91    0.3311
## 2010-08-31      91    0.3311
## 2010-09-09      91    0.3311
## 2010-09-23      91    0.3311
## 2010-12-24      91    0.3311
## 2010-04-20      90    0.3275
## 2010-05-20      90    0.3275
## 2010-09-13      90    0.3275
## 2010-09-28      90    0.3275
## (Other)        16484  59.9789

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

```

Plot of Feature:ACCIDENT_DATE
Data:All 2010-Only 2010-Homologated.csv



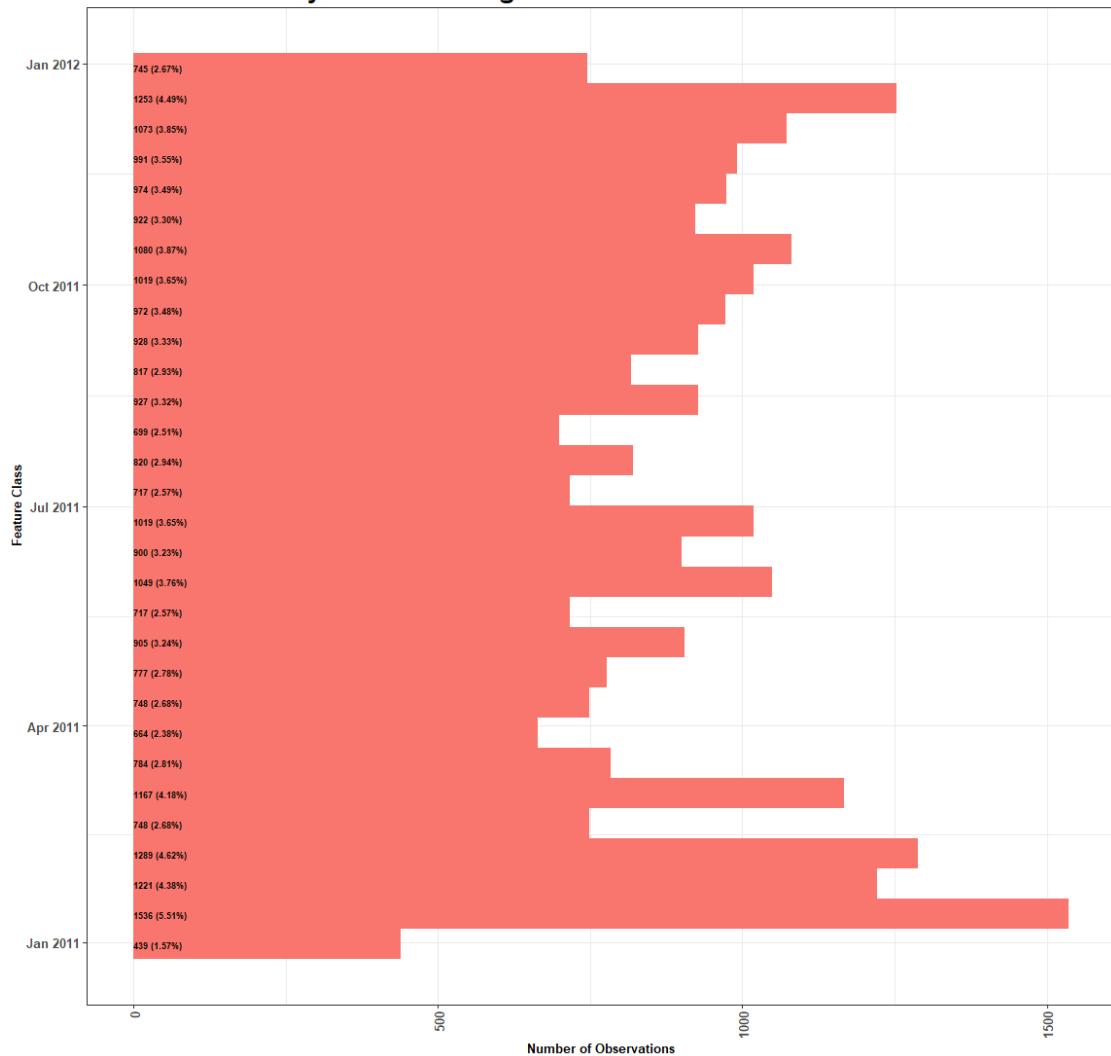
```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##      Min.    1st Qu.    Median    Mean    3rd Qu.
## "2011-01-01" "2011-03-21" "2011-07-01" "2011-07-02" "2011-10-11"
##          Max.
## "2011-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2011-01-15       225     0.8065
## 2011-02-03       181     0.6487
## 2011-02-28       180     0.6452
## 2011-02-02       177     0.6344
## 2011-01-07       166     0.5950
## 2011-03-21       161     0.5771
## 2011-12-28       160     0.5735
## 2011-06-24       158     0.5663
## 2011-01-17       154     0.5520
## 2011-12-21       150     0.5376
## 2011-12-16       149     0.5341
## 2011-01-14       147     0.5269
## 2011-01-21       146     0.5233
## 2011-12-29       145     0.5197
## 2011-01-04       144     0.5161
## 2011-11-23       142     0.5090
## 2011-01-20       139     0.4982
## 2011-01-25       136     0.4875
## 2011-10-03       133     0.4767
## 2011-10-28       133     0.4767
## 2011-02-09       132     0.4731
## 2011-11-03       132     0.4731
## 2011-12-23       129     0.4624
## 2011-10-13       128     0.4588
```

## 2011-08-09	126	0.4516
## 2011-09-29	126	0.4516
## 2011-01-11	124	0.4444
## 2011-01-18	122	0.4373
## 2011-10-20	122	0.4373
## 2011-12-05	122	0.4373
## 2011-05-27	119	0.4265
## 2011-01-12	118	0.4229
## 2011-11-29	117	0.4194
## 2011-12-22	117	0.4194
## 2011-12-25	117	0.4194
## 2011-01-24	116	0.4158
## 2011-01-29	116	0.4158
## 2011-03-01	115	0.4122
## 2011-04-20	115	0.4122
## 2011-09-30	115	0.4122
## 2011-12-20	113	0.4050
## 2011-10-14	112	0.4014
## 2011-10-06	111	0.3978
## 2011-02-01	110	0.3943
## 2011-01-06	109	0.3907
## 2011-01-31	109	0.3907
## 2011-03-07	109	0.3907
## 2011-03-10	109	0.3907
## 2011-09-22	108	0.3871
## 2011-02-04	107	0.3835
## 2011-02-10	107	0.3835
## 2011-09-27	107	0.3835
## 2011-10-21	107	0.3835
## 2011-12-02	107	0.3835
## 2011-02-11	106	0.3799
## 2011-11-24	106	0.3799
## 2011-12-13	106	0.3799
## 2011-05-12	105	0.3763
## 2011-05-31	105	0.3763
## 2011-06-22	105	0.3763
## 2011-09-13	104	0.3728
## 2011-11-14	104	0.3728
## 2011-06-03	103	0.3692
## 2011-09-15	103	0.3692
## 2011-10-11	103	0.3692
## 2011-06-10	102	0.3656
## 2011-07-07	102	0.3656
## 2011-12-09	102	0.3656
## 2011-04-21	101	0.3620
## 2011-08-19	101	0.3620
## 2011-11-10	101	0.3620
## 2011-06-23	100	0.3584

```
## 2011-10-18      100    0.3584
## 2011-04-28      99     0.3548
## 2011-05-16      99     0.3548
## 2011-06-20      99     0.3548
## 2011-01-22      98     0.3513
## 2011-09-14      98     0.3513
## 2011-12-14      98     0.3513
## 2011-01-05      97     0.3477
## 2011-01-19      97     0.3477
## 2011-09-06      97     0.3477
## 2011-11-30      97     0.3477
## 2011-12-07      97     0.3477
## 2011-12-15      97     0.3477
## 2011-02-18      96     0.3441
## 2011-07-15      96     0.3441
## 2011-10-07      96     0.3441
## 2011-11-11      96     0.3441
## 2011-10-05      95     0.3405
## 2011-11-21      95     0.3405
## 2011-09-28      94     0.3369
## 2011-11-16      94     0.3369
## 2011-11-22      94     0.3369
## 2011-05-03      93     0.3333
## 2011-07-12      93     0.3333
## 2011-08-12      93     0.3333
## 2011-11-15      93     0.3333
## 2011-07-11      92     0.3297
## (Other)          16369   58.6703

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

Plot of Feature:ACCIDENT_DATE Data:All 2011-Only 2011-Homologated.csv



```
##  
## -----  
## CHECKING FEATURE:ACCIDENT_DATE  
## DATA:All 2012-Only 2012-Homologated.csv...  
##  
## Number of Blank Values:0  
## Number of Zero Values:0  
## Number of Negative Values:0  
##  
## Summary as Date Feature:  
##  
##      Min.    1st Qu.    Median      Mean    3rd Qu.  
## "2012-01-01" "2012-03-21" "2012-07-01" "2012-07-02" "2012-10-11"  
##      Max.  
## "2012-12-31"
```

```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF ACCIDENT_DATE  
##  
## Feature Value Counter Percentage  
## -----  
## 2012-02-24 304 1.1459  
## 2012-01-20 189 0.7124  
## 2012-01-19 170 0.6408  
## 2012-01-18 168 0.6332  
## 2012-01-13 166 0.6257  
## 2012-01-27 166 0.6257  
## 2012-09-04 163 0.6144  
## 2012-12-21 157 0.5918  
## 2012-11-26 153 0.5767  
## 2012-10-31 141 0.5315  
## 2012-01-12 139 0.5239  
## 2012-12-29 139 0.5239  
## 2012-11-01 138 0.5202  
## 2012-12-18 138 0.5202  
## 2012-01-16 131 0.4938  
## 2012-11-08 130 0.4900  
## 2012-09-14 129 0.4862  
## 2012-01-23 125 0.4712  
## 2012-12-28 125 0.4712  
## 2012-09-21 124 0.4674  
## 2012-11-30 123 0.4636  
## 2012-12-20 123 0.4636  
## 2012-12-07 121 0.4561  
## 2012-02-03 120 0.4523  
## 2012-11-23 120 0.4523  
## 2012-12-13 120 0.4523  
## 2012-05-11 119 0.4485  
## 2012-12-27 115 0.4335  
## 2012-01-21 114 0.4297  
## 2012-06-01 113 0.4259  
## 2012-11-02 112 0.4222  
## 2012-09-13 111 0.4184  
## 2012-08-31 110 0.4146  
## 2012-05-29 109 0.4109  
## 2012-10-19 109 0.4109  
## 2012-12-14 109 0.4109  
## 2012-03-01 108 0.4071  
## 2012-06-25 108 0.4071  
## 2012-01-05 105 0.3958
```

## 2012-01-17	105	0.3958
## 2012-02-09	105	0.3958
## 2012-10-12	104	0.3920
## 2012-02-17	103	0.3882
## 2012-02-29	103	0.3882
## 2012-06-13	103	0.3882
## 2012-07-04	103	0.3882
## 2012-01-26	102	0.3845
## 2012-02-27	102	0.3845
## 2012-09-17	101	0.3807
## 2012-09-27	101	0.3807
## 2012-10-11	100	0.3769
## 2012-01-06	99	0.3732
## 2012-02-02	99	0.3732
## 2012-11-13	99	0.3732
## 2012-08-29	98	0.3694
## 2012-09-18	98	0.3694
## 2012-10-04	98	0.3694
## 2012-05-03	97	0.3656
## 2012-05-22	97	0.3656
## 2012-08-08	97	0.3656
## 2012-11-21	97	0.3656
## 2012-10-26	96	0.3619
## 2012-12-06	96	0.3619
## 2012-06-22	95	0.3581
## 2012-06-29	95	0.3581
## 2012-11-22	95	0.3581
## 2012-01-31	94	0.3543
## 2012-06-05	94	0.3543
## 2012-06-15	94	0.3543
## 2012-02-25	93	0.3505
## 2012-12-04	92	0.3468
## 2012-06-20	91	0.3430
## 2012-11-15	91	0.3430
## 2012-05-30	90	0.3392
## 2012-06-02	90	0.3392
## 2012-12-08	90	0.3392
## 2012-01-09	89	0.3355
## 2012-09-06	89	0.3355
## 2012-12-22	89	0.3355
## 2012-02-08	88	0.3317
## 2012-02-14	88	0.3317
## 2012-03-02	88	0.3317
## 2012-03-09	88	0.3317
## 2012-05-04	88	0.3317
## 2012-06-28	88	0.3317
## 2012-09-28	88	0.3317
## 2012-11-16	88	0.3317

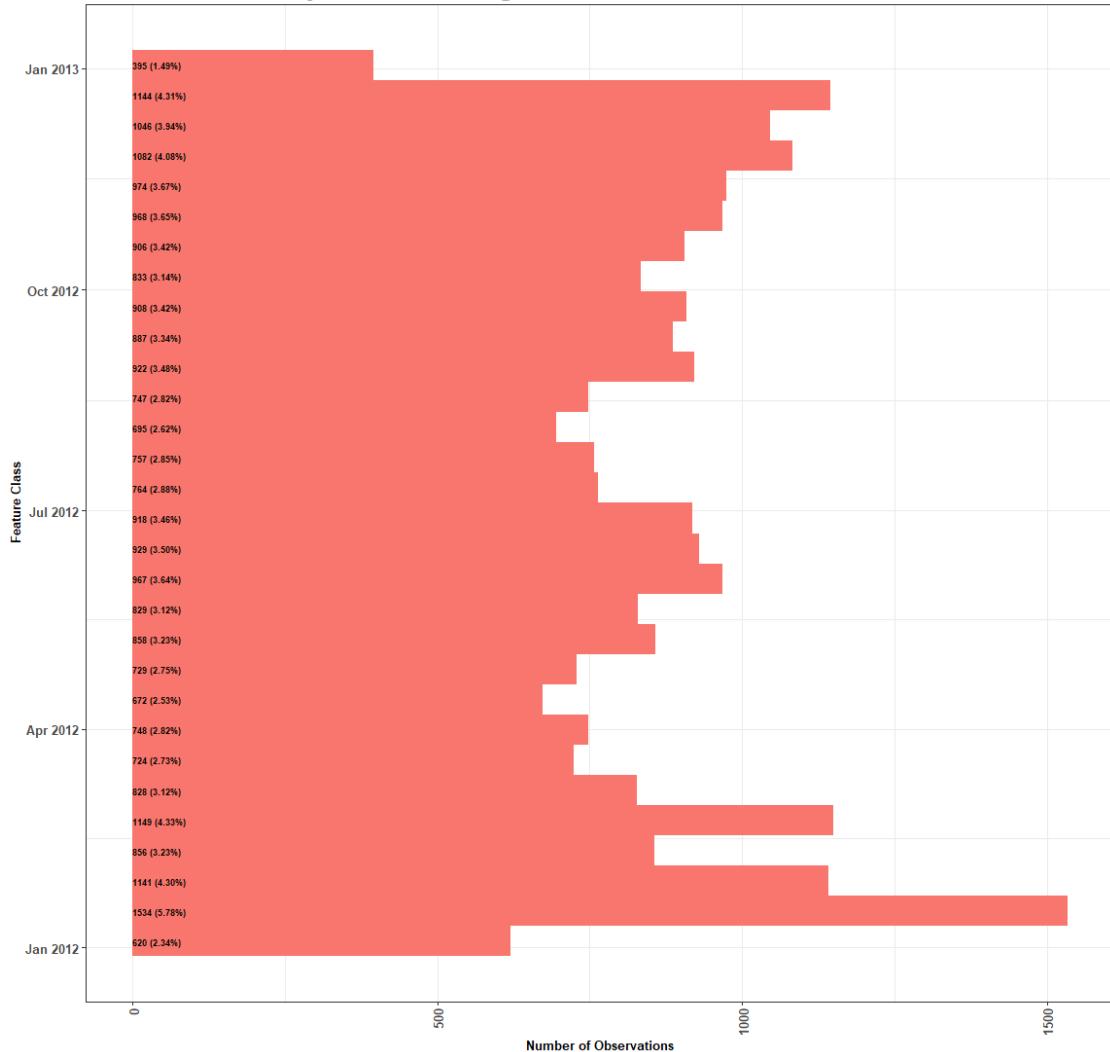
```

## 2012-11-29      88    0.3317
## 2012-06-12      87    0.3279
## 2012-08-09      87    0.3279
## 2012-09-05      87    0.3279
## 2012-10-13      87    0.3279
## 2012-10-18      87    0.3279
## 2012-01-22      86    0.3242
## 2012-03-05      86    0.3242
## 2012-05-09      86    0.3242
## 2012-03-07      85    0.3204
## 2012-08-30      85    0.3204
## 2012-09-12      85    0.3204
## (Other)        15652   58.9974

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

```

Plot of Feature:ACCIDENT_DATE
Data:All 2012-Only 2012-Homologated.csv



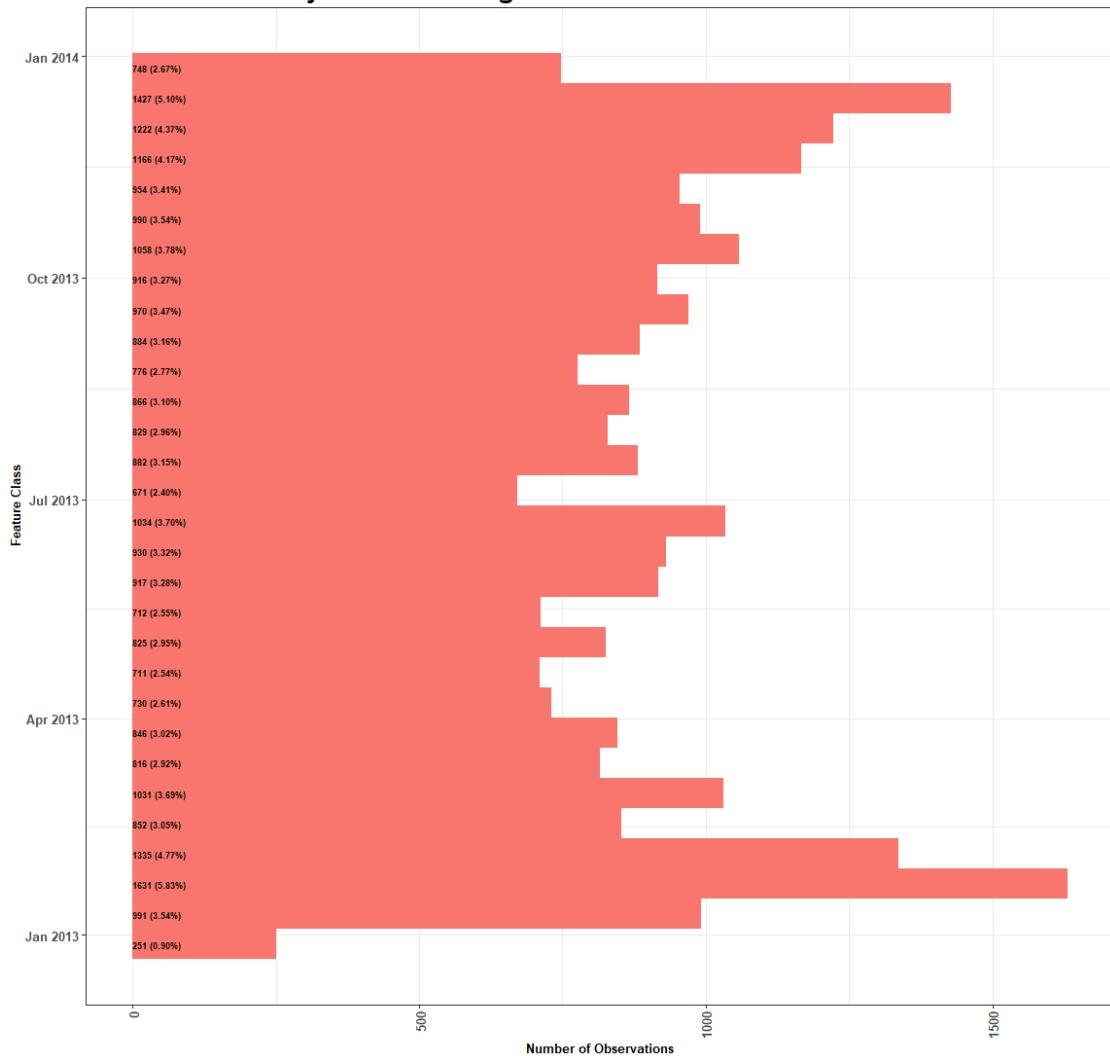
```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##      Min.    1st Qu.    Median    Mean    3rd Qu.
## "2013-01-01" "2013-03-20" "2013-07-06" "2013-07-03" "2013-10-14"
##          Max.
## "2013-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2013-11-23       294     1.0511
## 2013-02-08       271     0.9689
## 2013-01-28       235     0.8402
## 2013-02-27       227     0.8116
## 2013-01-24       210     0.7508
## 2013-01-23       208     0.7436
## 2013-01-25       181     0.6471
## 2013-11-29       177     0.6328
## 2013-02-05       171     0.6113
## 2013-12-17       164     0.5863
## 2013-03-19       160     0.5720
## 2013-12-13       159     0.5684
## 2013-12-20       158     0.5649
## 2013-02-19       147     0.5255
## 2013-01-10       145     0.5184
## 2013-10-31       145     0.5184
## 2013-03-20       141     0.5041
## 2013-02-06       140     0.5005
## 2013-01-19       139     0.4969
## 2013-01-07       132     0.4719
## 2013-02-09       132     0.4719
## 2013-01-18       131     0.4683
## 2013-06-28       131     0.4683
## 2013-12-09       129     0.4612
```

## 2013-11-28	127	0.4540
## 2013-12-16	126	0.4505
## 2013-01-17	125	0.4469
## 2013-11-27	125	0.4469
## 2013-03-15	123	0.4397
## 2013-11-01	123	0.4397
## 2013-01-02	120	0.4290
## 2013-06-07	120	0.4290
## 2013-10-18	119	0.4254
## 2013-12-23	119	0.4254
## 2013-10-29	117	0.4183
## 2013-11-22	117	0.4183
## 2013-06-24	115	0.4111
## 2013-01-22	114	0.4076
## 2013-05-30	112	0.4004
## 2013-06-06	112	0.4004
## 2013-12-12	112	0.4004
## 2013-01-06	111	0.3968
## 2013-04-12	111	0.3968
## 2013-06-19	111	0.3968
## 2013-09-12	109	0.3897
## 2013-08-22	108	0.3861
## 2013-09-20	108	0.3861
## 2013-12-15	108	0.3861
## 2013-08-12	107	0.3825
## 2013-10-08	107	0.3825
## 2013-09-05	106	0.3790
## 2013-12-18	106	0.3790
## 2013-10-04	104	0.3718
## 2013-10-09	104	0.3718
## 2013-11-06	104	0.3718
## 2013-03-01	103	0.3682
## 2013-03-28	103	0.3682
## 2013-07-19	103	0.3682
## 2013-11-21	103	0.3682
## 2013-09-26	102	0.3647
## 2013-10-17	102	0.3647
## 2013-12-03	102	0.3647
## 2013-02-20	101	0.3611
## 2013-05-07	101	0.3611
## 2013-05-22	101	0.3611
## 2013-11-14	101	0.3611
## 2013-01-21	100	0.3575
## 2013-06-27	100	0.3575
## 2013-08-23	100	0.3575
## 2013-12-10	100	0.3575
## 2013-01-11	99	0.3539
## 2013-10-03	99	0.3539

```
## 2013-11-26          99    0.3539
## 2013-12-11          99    0.3539
## 2013-05-24          98    0.3504
## 2013-06-05          98    0.3504
## 2013-06-13          98    0.3504
## 2013-10-10          98    0.3504
## 2013-10-24          98    0.3504
## 2013-10-26          98    0.3504
## 2013-05-17          97    0.3468
## 2013-09-11          97    0.3468
## 2013-12-19          97    0.3468
## 2013-12-24          96    0.3432
## 2013-12-31          95    0.3396
## 2013-05-29          94    0.3361
## 2013-07-29          94    0.3361
## 2013-08-02          94    0.3361
## 2013-09-25          94    0.3361
## 2013-10-16          94    0.3361
## 2013-11-30          94    0.3361
## 2013-05-10          93    0.3325
## 2013-08-13          93    0.3325
## 2013-02-01          92    0.3289
## 2013-02-28          92    0.3289
## 2013-07-18          92    0.3289
## 2013-08-01          92    0.3289
## 2013-11-25          92    0.3289
## 2013-08-30          91    0.3253
## (Other)           16025  57.2915

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

Plot of Feature:ACCIDENT_DATE Data:All 2013-Only 2013-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##           Min.     1st Qu.      Median        Mean     3rd Qu.
## "2014-01-01" "2014-03-14" "2014-06-27" "2014-06-27" "2014-10-06"
##             Max.
## "2014-12-31"
```

```

##  

## Summary as Factor Feature:  

##  

## Number of Features: 100  

##  

## TOP 100 FEATURES OF ACCIDENT_DATE  

##  

## Feature Value      Counter   Percentage  

## -----  

## 2014-01-03          279      1.0223  

## 2014-02-14          250      0.9160  

## 2014-01-27          247      0.9050  

## 2014-02-18          180      0.6595  

## 2014-01-22          176      0.6449  

## 2014-01-24          171      0.6266  

## 2014-02-11          171      0.6266  

## 2014-12-10          165      0.6046  

## 2014-01-11          146      0.5350  

## 2014-02-28          145      0.5313  

## 2014-03-06          145      0.5313  

## 2014-01-09          143      0.5240  

## 2014-12-19          140      0.5130  

## 2014-10-07          139      0.5093  

## 2014-01-07          137      0.5020  

## 2014-01-02          136      0.4983  

## 2014-01-08          128      0.4690  

## 2014-11-07          127      0.4653  

## 2014-11-20          127      0.4653  

## 2014-06-18          126      0.4617  

## 2014-10-16          125      0.4580  

## 2014-11-28          121      0.4434  

## 2014-11-18          119      0.4360  

## 2014-02-12          118      0.4324  

## 2014-02-06          117      0.4287  

## 2014-08-12          116      0.4250  

## 2014-10-17          115      0.4214  

## 2014-07-08          114      0.4177  

## 2014-10-24          114      0.4177  

## 2014-11-17          113      0.4140  

## 2014-12-05          113      0.4140  

## 2014-12-18          113      0.4140  

## 2014-01-21          112      0.4104  

## 2014-03-13          112      0.4104  

## 2014-11-14          110      0.4030  

## 2014-12-15          110      0.4030  

## 2014-02-05          109      0.3994  

## 2014-12-12          109      0.3994  

## 2014-11-04          108      0.3957

```

## 2014-01-23	107	0.3921
## 2014-02-01	107	0.3921
## 2014-06-11	107	0.3921
## 2014-12-02	107	0.3921
## 2014-12-04	107	0.3921
## 2014-01-20	106	0.3884
## 2014-02-10	106	0.3884
## 2014-03-12	106	0.3884
## 2014-11-19	105	0.3847
## 2014-12-01	105	0.3847
## 2014-10-04	104	0.3811
## 2014-06-20	103	0.3774
## 2014-09-16	103	0.3774
## 2014-01-25	102	0.3737
## 2014-01-28	102	0.3737
## 2014-08-14	102	0.3737
## 2014-03-21	101	0.3701
## 2014-07-11	101	0.3701
## 2014-10-29	101	0.3701
## 2014-05-20	100	0.3664
## 2014-06-27	100	0.3664
## 2014-11-21	100	0.3664
## 2014-12-22	99	0.3627
## 2014-04-30	98	0.3591
## 2014-10-15	98	0.3591
## 2014-10-30	98	0.3591
## 2014-11-06	98	0.3591
## 2014-05-15	97	0.3554
## 2014-02-27	96	0.3518
## 2014-05-30	94	0.3444
## 2014-09-08	94	0.3444
## 2014-09-25	94	0.3444
## 2014-02-07	93	0.3408
## 2014-04-17	93	0.3408
## 2014-05-22	93	0.3408
## 2014-09-02	93	0.3408
## 2014-01-29	92	0.3371
## 2014-02-04	92	0.3371
## 2014-03-07	92	0.3371
## 2014-06-10	92	0.3371
## 2014-06-26	92	0.3371
## 2014-09-18	92	0.3371
## 2014-12-09	92	0.3371
## 2014-09-05	91	0.3334
## 2014-09-11	91	0.3334
## 2014-01-04	90	0.3298
## 2014-02-03	90	0.3298
## 2014-05-29	90	0.3298

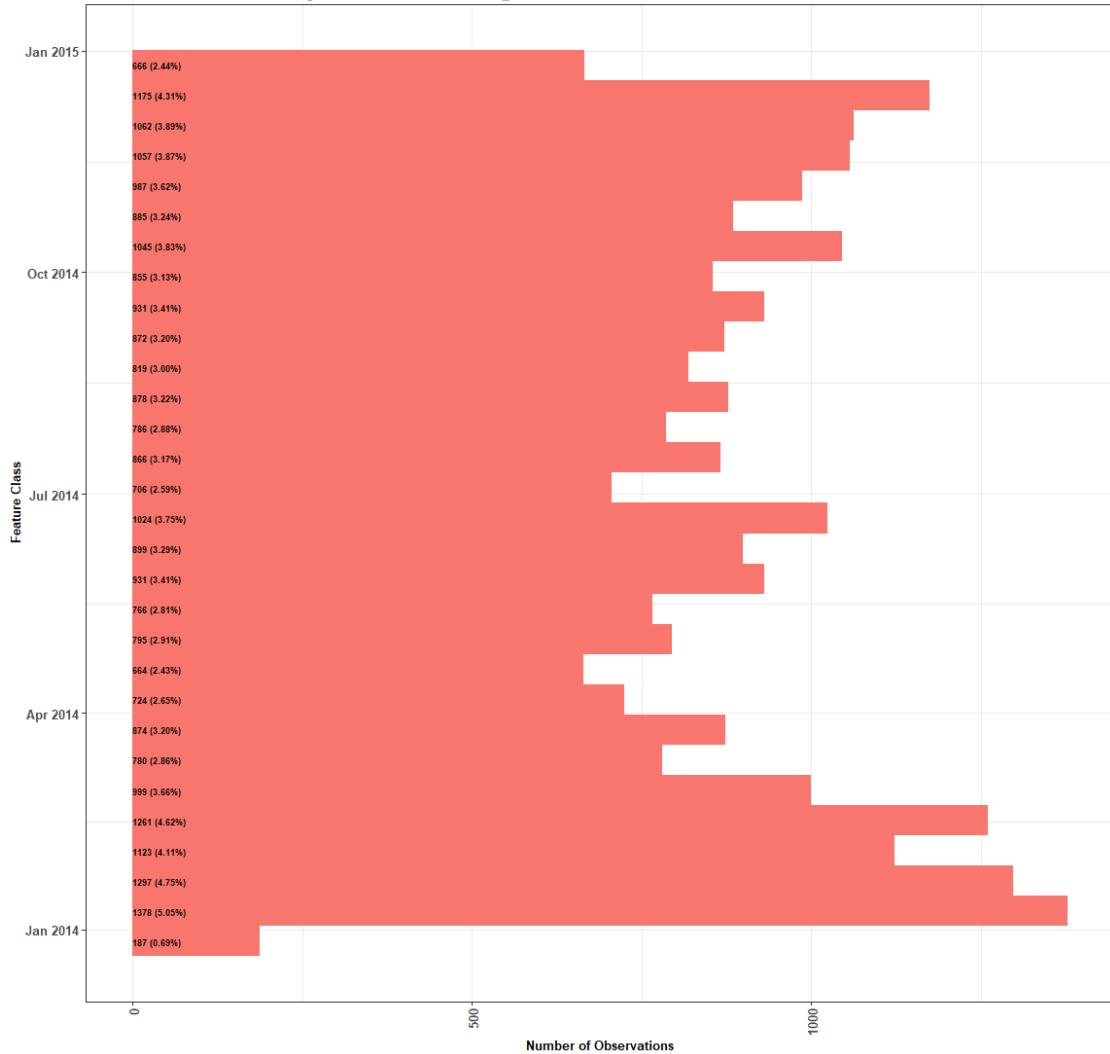
```

## 2014-06-12      90    0.3298
## 2014-07-30      90    0.3298
## 2014-10-06      90    0.3298
## 2014-10-08      90    0.3298
## 2014-12-03      90    0.3298
## 2014-12-23      90    0.3298
## 2014-03-03      89    0.3261
## 2014-06-06      89    0.3261
## 2014-07-18      89    0.3261
## 2014-08-21      89    0.3261
## 2014-12-20      89    0.3261
## 2014-05-07      88    0.3224
## (Other)        16057  58.8341

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

```

Plot of Feature:ACCIDENT_DATE
Data:All 2014-Only 2014-Homologated.csv



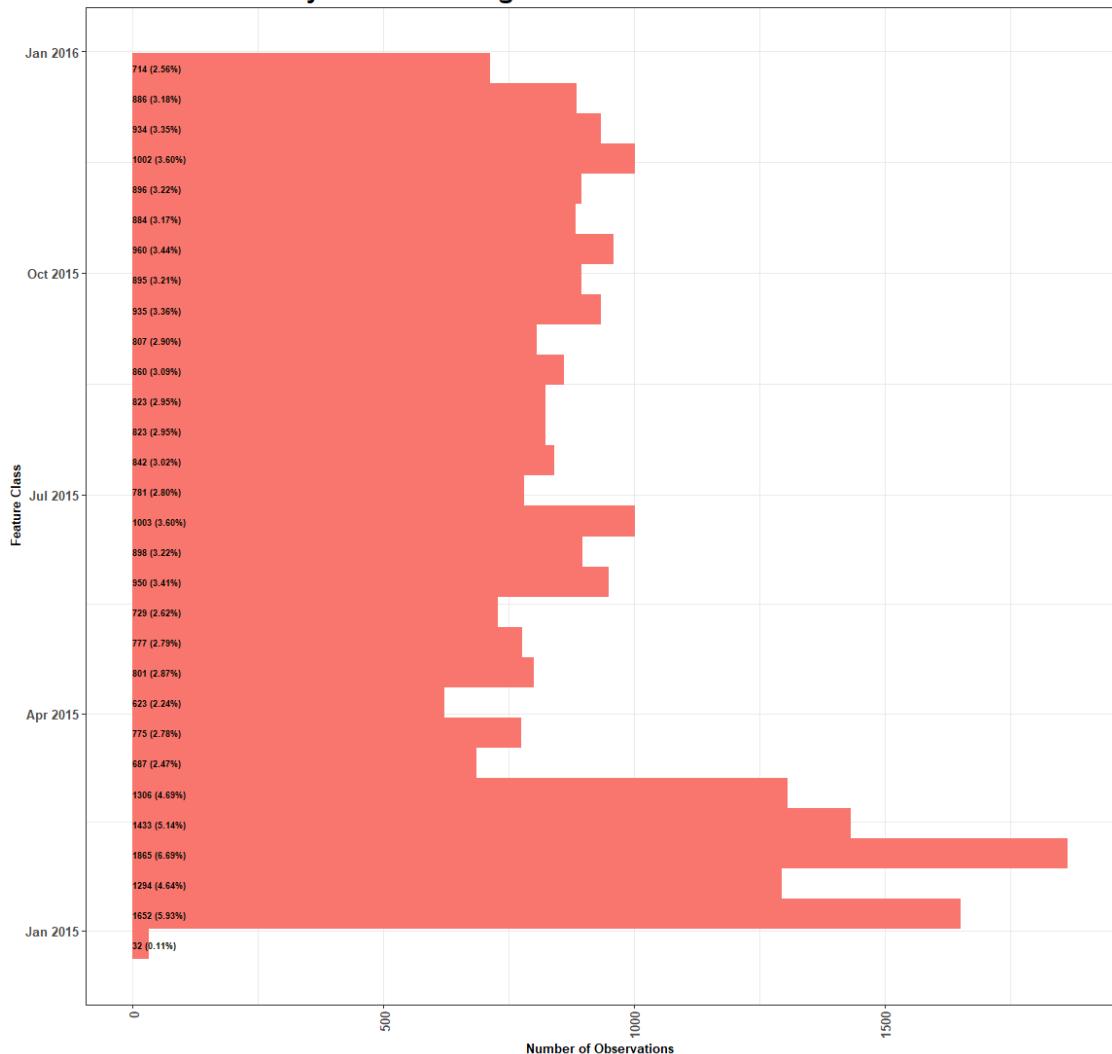
```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##      Min.    1st Qu.    Median    Mean    3rd Qu.
## "2015-01-01" "2015-02-26" "2015-06-16" "2015-06-17" "2015-09-25"
##          Max.
## "2015-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2015-02-02       294     1.0550
## 2015-01-14       208     0.7464
## 2015-01-30       205     0.7356
## 2015-02-04       203     0.7285
## 2015-02-21       201     0.7213
## 2015-01-29       198     0.7105
## 2015-02-17       185     0.6639
## 2015-01-08       181     0.6495
## 2015-02-14       174     0.6244
## 2015-01-07       171     0.6136
## 2015-01-26       164     0.5885
## 2015-02-13       164     0.5885
## 2015-01-13       157     0.5634
## 2015-01-16       156     0.5598
## 2015-01-09       154     0.5526
## 2015-02-20       154     0.5526
## 2015-01-21       152     0.5454
## 2015-11-27       150     0.5383
## 2015-02-27       140     0.5024
## 2015-01-22       139     0.4988
## 2015-01-06       138     0.4952
## 2015-01-05       137     0.4916
## 2015-02-23       137     0.4916
## 2015-02-19       136     0.4880
```

## 2015-03-03	136	0.4880
## 2015-02-06	135	0.4844
## 2015-01-20	134	0.4809
## 2015-01-31	131	0.4701
## 2015-03-27	131	0.4701
## 2015-01-12	130	0.4665
## 2015-02-26	128	0.4593
## 2015-02-08	125	0.4486
## 2015-11-12	125	0.4486
## 2015-02-05	124	0.4450
## 2015-06-12	123	0.4414
## 2015-02-12	122	0.4378
## 2015-04-02	120	0.4306
## 2015-02-11	119	0.4270
## 2015-11-19	118	0.4234
## 2015-01-15	114	0.4091
## 2015-06-18	114	0.4091
## 2015-02-25	113	0.4055
## 2015-11-13	111	0.3983
## 2015-01-28	110	0.3947
## 2015-01-23	109	0.3911
## 2015-11-16	109	0.3911
## 2015-02-24	108	0.3876
## 2015-09-12	107	0.3840
## 2015-02-03	104	0.3732
## 2015-05-26	104	0.3732
## 2015-10-13	104	0.3732
## 2015-10-28	104	0.3732
## 2015-07-07	103	0.3696
## 2015-08-11	103	0.3696
## 2015-09-30	103	0.3696
## 2015-10-01	103	0.3696
## 2015-11-20	103	0.3696
## 2015-09-08	102	0.3660
## 2015-11-23	102	0.3660
## 2015-06-19	101	0.3624
## 2015-08-20	101	0.3624
## 2015-08-26	101	0.3624
## 2015-09-04	101	0.3624
## 2015-10-16	101	0.3624
## 2015-12-11	101	0.3624
## 2015-01-03	100	0.3588
## 2015-04-17	100	0.3588
## 2015-07-10	100	0.3588
## 2015-10-15	100	0.3588
## 2015-11-04	100	0.3588
## 2015-05-08	99	0.3553
## 2015-02-10	98	0.3517

```
## 2015-06-26          98    0.3517
## 2015-07-08          98    0.3517
## 2015-09-16          98    0.3517
## 2015-09-18          98    0.3517
## 2015-01-04          97    0.3481
## 2015-07-31          97    0.3481
## 2015-12-10          97    0.3481
## 2015-01-27          96    0.3445
## 2015-09-28          96    0.3445
## 2015-06-16          93    0.3337
## 2015-06-29          93    0.3337
## 2015-06-30          93    0.3337
## 2015-10-08          93    0.3337
## 2015-06-24          92    0.3301
## 2015-09-03          92    0.3301
## 2015-10-09          92    0.3301
## 2015-10-21          92    0.3301
## 2015-10-30          92    0.3301
## 2015-05-21          91    0.3266
## 2015-08-18          91    0.3266
## 2015-09-29          91    0.3266
## 2015-10-14          91    0.3266
## 2015-12-24          91    0.3266
## 2015-02-01          90    0.3230
## 2015-07-02          90    0.3230
## 2015-07-28          90    0.3230
## 2015-10-19          90    0.3230
## (Other)           15913   57.1034

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

Plot of Feature:ACCIDENT_DATE Data:All 2015-Only 2015-Homologated.csv



```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##           Min.     1st Qu.      Median        Mean      3rd Qu.
## "2016-01-01" "2016-03-19" "2016-06-29" "2016-06-30" "2016-10-07"
##          Max.
## "2016-12-31"
```

```
##  
## Summary as Factor Feature:  
##  
## Number of Features: 100  
##  
## TOP 100 FEATURES OF ACCIDENT_DATE  
##  
## Feature Value Counter Percentage  
## -----  
## 2016-02-17 300 1.1602  
## 2016-02-18 227 0.8779  
## 2016-04-06 223 0.8624  
## 2016-02-25 196 0.7580  
## 2016-12-09 183 0.7077  
## 2016-12-08 172 0.6652  
## 2016-02-16 156 0.6033  
## 2016-12-05 156 0.6033  
## 2016-02-12 142 0.5492  
## 2016-01-12 138 0.5337  
## 2016-02-13 138 0.5337  
## 2016-02-19 138 0.5337  
## 2016-01-20 137 0.5298  
## 2016-12-17 137 0.5298  
## 2016-12-16 136 0.5259  
## 2016-11-24 135 0.5221  
## 2016-01-14 134 0.5182  
## 2016-01-18 134 0.5182  
## 2016-01-21 134 0.5182  
## 2016-03-24 134 0.5182  
## 2016-12-14 131 0.5066  
## 2016-01-22 125 0.4834  
## 2016-10-06 125 0.4834  
## 2016-02-26 124 0.4795  
## 2016-06-30 120 0.4641  
## 2016-10-20 120 0.4641  
## 2016-10-21 118 0.4563  
## 2016-11-04 117 0.4525  
## 2016-01-11 116 0.4486  
## 2016-12-15 116 0.4486  
## 2016-01-06 115 0.4447  
## 2016-02-24 114 0.4409  
## 2016-09-09 114 0.4409  
## 2016-01-05 112 0.4331  
## 2016-03-02 111 0.4293  
## 2016-01-13 108 0.4177  
## 2016-03-04 108 0.4177  
## 2016-11-21 108 0.4177  
## 2016-06-21 107 0.4138
```

## 2016-12-21	106	0.4099
## 2016-06-01	103	0.3983
## 2016-12-18	103	0.3983
## 2016-12-19	103	0.3983
## 2016-11-16	101	0.3906
## 2016-02-11	100	0.3867
## 2016-03-11	99	0.3829
## 2016-08-12	99	0.3829
## 2016-05-05	98	0.3790
## 2016-10-27	98	0.3790
## 2016-10-28	98	0.3790
## 2016-05-26	96	0.3713
## 2016-07-22	96	0.3713
## 2016-09-19	96	0.3713
## 2016-12-29	95	0.3674
## 2016-02-05	94	0.3635
## 2016-05-13	94	0.3635
## 2016-06-09	94	0.3635
## 2016-08-17	94	0.3635
## 2016-05-24	93	0.3597
## 2016-11-20	93	0.3597
## 2016-01-19	92	0.3558
## 2016-05-11	92	0.3558
## 2016-09-02	92	0.3558
## 2016-11-23	92	0.3558
## 2016-12-31	92	0.3558
## 2016-01-29	91	0.3519
## 2016-06-29	91	0.3519
## 2016-12-22	91	0.3519
## 2016-01-07	90	0.3481
## 2016-01-27	90	0.3481
## 2016-05-17	90	0.3481
## 2016-06-16	90	0.3481
## 2016-07-26	90	0.3481
## 2016-09-07	90	0.3481
## 2016-05-31	89	0.3442
## 2016-11-18	89	0.3442
## 2016-01-04	88	0.3403
## 2016-05-27	88	0.3403
## 2016-06-17	88	0.3403
## 2016-07-05	88	0.3403
## 2016-09-20	88	0.3403
## 2016-12-13	88	0.3403
## 2016-09-23	87	0.3365
## 2016-12-01	87	0.3365
## 2016-12-23	87	0.3365
## 2016-02-09	86	0.3326
## 2016-03-17	86	0.3326

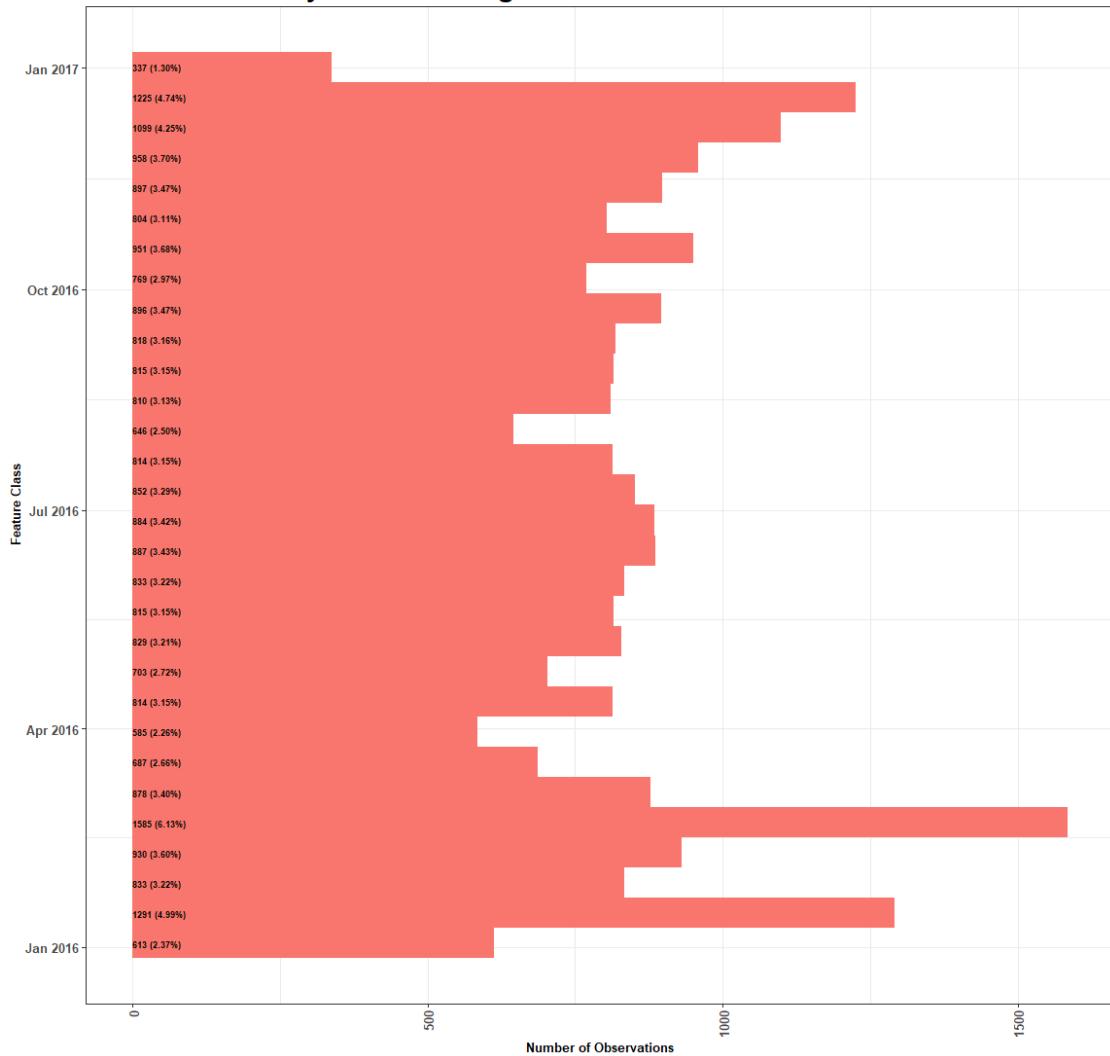
```

## 2016-06-03      86    0.3326
## 2016-07-13      86    0.3326
## 2016-11-30      86    0.3326
## 2016-12-20      86    0.3326
## 2016-05-30      85    0.3287
## 2016-06-10      85    0.3287
## 2016-07-27      85    0.3287
## 2016-06-07      84    0.3249
## 2016-07-21      84    0.3249
## 2016-08-25      84    0.3249
## 2016-08-31      84    0.3249
## 2016-09-22      84    0.3249
## (Other)        14915   57.6804

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

```

Plot of Feature:ACCIDENT_DATE
Data:All 2016-Only 2016-Homologated.csv



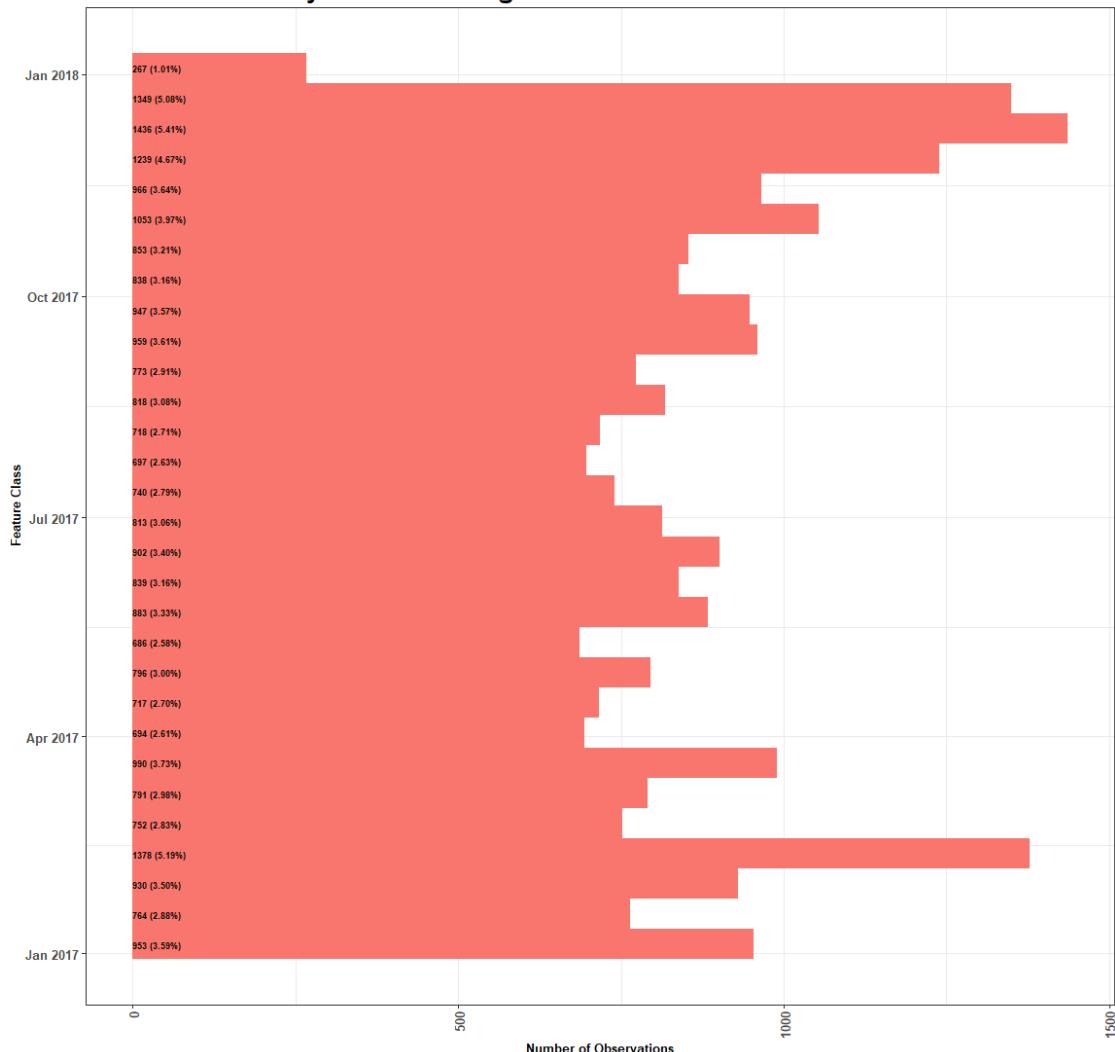
```
##
## -----
## CHECKING FEATURE:ACCIDENT_DATE
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary as Date Feature:
##
##      Min.    1st Qu.    Median    Mean    3rd Qu.
## "2017-01-01" "2017-03-29" "2017-07-12" "2017-07-10" "2017-10-23"
##          Max.
## "2017-12-31"
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_DATE
##
## Feature Value   Counter   Percentage
## -----
## 2017-03-24       220     0.8289
## 2017-02-15       212     0.7988
## 2017-12-14       202     0.7611
## 2017-12-12       193     0.7272
## 2017-11-26       162     0.6104
## 2017-01-05       161     0.6066
## 2017-12-15       159     0.5991
## 2017-02-10       144     0.5426
## 2017-02-16       144     0.5426
## 2017-12-18       141     0.5313
## 2017-12-28       139     0.5237
## 2017-12-23       138     0.5200
## 2017-11-27       132     0.4973
## 2017-12-20       132     0.4973
## 2017-12-13       130     0.4898
## 2017-12-11       129     0.4860
## 2017-01-04       128     0.4823
## 2017-02-13       128     0.4823
## 2017-03-08       126     0.4747
## 2017-03-14       123     0.4634
## 2017-02-09       122     0.4597
## 2017-11-17       122     0.4597
## 2017-12-27       120     0.4521
## 2017-11-02       119     0.4484
```

## 2017-11-03	119	0.4484
## 2017-11-30	119	0.4484
## 2017-02-14	118	0.4446
## 2017-12-08	118	0.4446
## 2017-10-24	117	0.4408
## 2017-12-05	117	0.4408
## 2017-01-09	116	0.4371
## 2017-10-20	116	0.4371
## 2017-05-18	115	0.4333
## 2017-09-12	114	0.4295
## 2017-11-21	113	0.4258
## 2017-12-21	113	0.4258
## 2017-03-15	112	0.4220
## 2017-09-21	112	0.4220
## 2017-12-19	112	0.4220
## 2017-01-06	111	0.4182
## 2017-12-16	109	0.4107
## 2017-01-30	108	0.4069
## 2017-08-24	108	0.4069
## 2017-02-12	107	0.4031
## 2017-11-24	107	0.4031
## 2017-12-29	107	0.4031
## 2017-09-07	106	0.3994
## 2017-12-22	106	0.3994
## 2017-11-15	105	0.3956
## 2017-01-13	104	0.3918
## 2017-01-31	104	0.3918
## 2017-12-07	104	0.3918
## 2017-01-03	103	0.3881
## 2017-07-21	103	0.3881
## 2017-09-28	103	0.3881
## 2017-09-29	103	0.3881
## 2017-11-29	102	0.3843
## 2017-05-02	101	0.3805
## 2017-06-21	101	0.3805
## 2017-07-05	101	0.3805
## 2017-11-16	100	0.3768
## 2017-09-20	99	0.3730
## 2017-05-23	98	0.3692
## 2017-10-05	98	0.3692
## 2017-06-30	97	0.3655
## 2017-02-03	96	0.3617
## 2017-03-06	96	0.3617
## 2017-05-05	96	0.3617
## 2017-06-06	96	0.3617
## 2017-11-22	96	0.3617
## 2017-11-28	96	0.3617
## 2017-02-17	95	0.3579

```
## 2017-04-13          95    0.3579
## 2017-09-08          95    0.3579
## 2017-11-01          94    0.3542
## 2017-11-23          94    0.3542
## 2017-02-08          93    0.3504
## 2017-06-28          93    0.3504
## 2017-07-11          93    0.3504
## 2017-01-27          92    0.3466
## 2017-06-26          92    0.3466
## 2017-09-13          92    0.3466
## 2017-09-14          92    0.3466
## 2017-03-02          91    0.3429
## 2017-11-06          91    0.3429
## 2017-06-13          90    0.3391
## 2017-09-22          89    0.3353
## 2017-10-30          89    0.3353
## 2017-12-26          89    0.3353
## 2017-12-30          89    0.3353
## 2017-06-23          88    0.3316
## 2017-08-16          88    0.3316
## 2017-09-19          88    0.3316
## 2017-11-07          88    0.3316
## 2017-11-09          88    0.3316
## 2017-04-18          87    0.3278
## 2017-06-01          87    0.3278
## 2017-08-17          87    0.3278
## 2017-09-26          87    0.3278
## (Other)           15477  58.3136

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

Plot of Feature:ACCIDENT_DATE
Data:All 2017-Only 2017-Homologated.csv

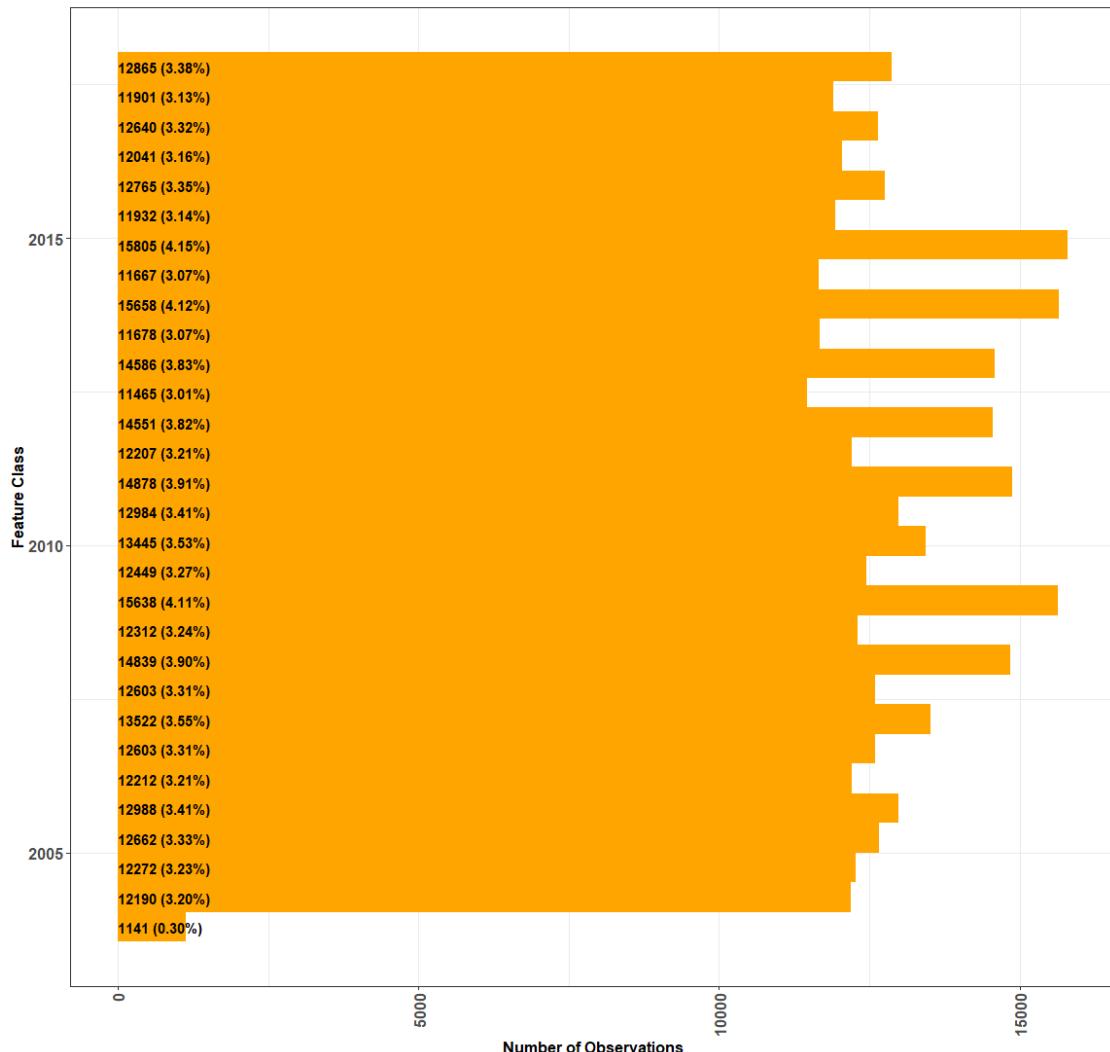


```
##
## =====
## FINAL INFO CHECKING FEATURE:ACCIDENT_DATE
## ALL DATA...
## =====
## Number of Blank Values:0
## Number of Zero Values:0
## Number of Negative Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv
##                                     25669                               26605
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv
##                                     26073                               27755
```

```
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv
##                               28502                         28453
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv
##                               27483                         27900
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv
##                               26530                         27971
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv
##                               27292                         27867
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                               25858                         26541
##
##
## Summary as Date Feature:
##      Min.    1st Qu.    Median      Mean    3rd Qu.
## "2004-01-01" "2007-08-23" "2010-12-27" "2011-01-04" "2014-06-11"
##      Max.
## "2017-12-31"
##
## Summary as Factor Feature:
## Number of Features: 100

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

Plot of Feature:ACCIDENT_DATE All Data



```
## [1] "TOP 100 FEATURES COUNTERS OF:ACCIDENT_DATE"
```

Feature Value	Counter	Percentage
2005-01-21	414	0.1088
2009-01-15	399	0.1049
2004-01-14	390	0.1025
2004-12-20	372	0.0978
2006-12-22	347	0.0912
2004-01-15	343	0.0901
2012-02-24	304	0.0799
2016-02-17	300	0.0788
2013-11-23	294	0.0773

2015-02-02	294	0.0773
2009-01-16	282	0.0741
2014-01-03	279	0.0733
2013-02-08	271	0.0712
2007-02-14	261	0.0686
2007-11-29	251	0.0660
2014-02-14	250	0.0657
2014-01-27	247	0.0649
2004-01-26	238	0.0625
2004-12-21	238	0.0625
2013-01-28	235	0.0618
2009-01-28	231	0.0607
2008-01-22	229	0.0602
2013-02-27	227	0.0597
2016-02-18	227	0.0597
2005-11-24	226	0.0594
2011-01-15	225	0.0591
2016-04-06	223	0.0586
2005-01-28	220	0.0578
2017-03-24	220	0.0578
2005-01-27	219	0.0576
2007-12-17	218	0.0573
2004-01-24	213	0.0560
2007-02-09	212	0.0557
2017-02-15	212	0.0557
2009-12-18	211	0.0555
2007-12-19	210	0.0552
2010-02-25	210	0.0552
2013-01-24	210	0.0552
2008-03-07	208	0.0547
2013-01-23	208	0.0547
2015-01-14	208	0.0547
2005-03-01	205	0.0539
2015-01-30	205	0.0539
2015-02-04	203	0.0534

2006-02-17	202	0.0531
2017-12-14	202	0.0531
2015-02-21	201	0.0528
2009-02-05	200	0.0526
2015-01-29	198	0.0520
2016-02-25	196	0.0515
2005-11-18	195	0.0512
2005-03-07	194	0.0510
2004-01-11	193	0.0507
2017-12-12	193	0.0507
2010-12-14	191	0.0502
2008-02-07	189	0.0497
2012-01-20	189	0.0497
2004-01-23	185	0.0486
2007-01-25	185	0.0486
2007-02-07	185	0.0486
2015-02-17	185	0.0486
2004-12-01	184	0.0484
2008-12-22	184	0.0484
2009-05-27	184	0.0484
2007-01-29	183	0.0481
2016-12-09	183	0.0481
2010-01-29	181	0.0476
2011-02-03	181	0.0476
2013-01-25	181	0.0476
2015-01-08	181	0.0476
2010-01-28	180	0.0473
2011-02-28	180	0.0473
2014-02-18	180	0.0473
2004-12-23	178	0.0468
2007-12-11	177	0.0465
2011-02-02	177	0.0465
2013-11-29	177	0.0465
2004-12-17	176	0.0463
2005-12-15	176	0.0463

2009-12-30	176	0.0463
2014-01-22	176	0.0463
2009-01-30	175	0.0460
2015-02-14	174	0.0457
2004-04-04	173	0.0455
2008-12-11	172	0.0452
2016-12-08	172	0.0452
2007-01-26	171	0.0449
2013-02-05	171	0.0449
2014-01-24	171	0.0449
2014-02-11	171	0.0449
2015-01-07	171	0.0449
2009-12-09	170	0.0447
2012-01-19	170	0.0447
2012-01-18	168	0.0442
2007-11-22	167	0.0439
2008-02-27	167	0.0439
2008-03-10	167	0.0439
2009-01-07	167	0.0439
2011-01-07	166	0.0436
(Other)	359369	94.4468

33.1 ACCIDENT_DATE = "" (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (ACCIDENT_DATE=)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (ACCIDENT_DATE=) Percentage -----

33.2 ACCIDENT_DATE = "0"

```
##  
## =====  
## CHECKING FEATURE AND VALUE (ACCIDENT_DATE=0)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (ACCIDENT_DATE=0) Percentage -----

34. Accident Time (ACCIDENT_TIME)

```
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2004-Only 2004-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value Counter Percentage
## -----
## 4:30 PM 258 1.0051
## 5:00 PM 255 0.9934
## 8:30 AM 240 0.9350
## 5:30 PM 237 0.9233
## 4:00 PM 222 0.8649
## 6:00 PM 210 0.8181
## 8:00 AM 193 0.7519
## 3:00 PM 186 0.7246
## 2:00 PM 173 0.6740
## 12:00 PM 169 0.6584
## 3:30 PM 169 0.6584
## 4:15 PM 168 0.6545
## 9:00 AM 167 0.6506
## 5:20 PM 157 0.6116
## 1:30 PM 150 0.5844
## 2:30 PM 146 0.5688
## 1:00 PM 145 0.5649
## 3:45 PM 142 0.5532
## 10:00 AM 141 0.5493
## 11:00 AM 138 0.5376
## 11:30 AM 138 0.5376
## 12:30 PM 137 0.5337
## 7:00 PM 129 0.5026
## 4:45 PM 128 0.4987
## 8:40 AM 127 0.4948
## 5:15 PM 126 0.4909
## 6:30 PM 126 0.4909
## 7:30 AM 123 0.4792
## 5:45 PM 121 0.4714
## 2:45 PM 119 0.4636
## 8:45 AM 117 0.4558
## 10:30 AM 116 0.4519
```

## 3:15 PM	114	0.4441
## 8:50 AM	113	0.4402
## 9:30 AM	113	0.4402
## 4:40 PM	109	0.4246
## 4:10 PM	108	0.4207
## 3:40 PM	103	0.4013
## 8:10 AM	102	0.3974
## 9:00 PM	101	0.3935
## 2:15 PM	97	0.3779
## 8:00 PM	96	0.3740
## 12:15 PM	94	0.3662
## 8:15 AM	94	0.3662
## 6:45 PM	93	0.3623
## 7:30 PM	92	0.3584
## 6:15 PM	91	0.3545
## 7:45 AM	91	0.3545
## 4:20 PM	90	0.3506
## 5:10 PM	89	0.3467
## 5:50 PM	88	0.3428
## 8:20 AM	88	0.3428
## 12:45 PM	87	0.3389
## 3:10 PM	87	0.3389
## 4:50 PM	87	0.3389
## 7:50 AM	85	0.3311
## 3:20 PM	84	0.3272
## 1:45 PM	83	0.3233
## 12:20 PM	83	0.3233
## 5:40 PM	83	0.3233
## 9:45 AM	82	0.3195
## 2:20 PM	81	0.3156
## 3:50 PM	80	0.3117
## 6:20 PM	80	0.3117
## 7:00 AM	80	0.3117
## 9:15 AM	79	0.3078
## 10:00 PM	78	0.3039
## 4:25 PM	78	0.3039
## 10:15 AM	76	0.2961
## 9:05 AM	74	0.2883
## 5:35 PM	73	0.2844
## 9:30 PM	70	0.2727
## 1:20 PM	68	0.2649
## 12:00 AM	68	0.2649
## 11:50 AM	67	0.2610
## 12:50 PM	67	0.2610
## 8:25 AM	67	0.2610
## 11:45 AM	66	0.2571
## 5:05 PM	66	0.2571
## 9:40 AM	66	0.2571

```

## 2:10 PM           64   0.2493
## 3:35 PM           64   0.2493
## 4:35 PM           64   0.2493
## 6:10 PM           64   0.2493
## 7:40 AM           64   0.2493
## 8:35 AM           64   0.2493
## 11:15 AM          63   0.2454
## 11:20 AM          63   0.2454
## 12:10 PM          63   0.2454
## 12:40 PM          63   0.2454
## 1:40 PM            62   0.2415
## 3:55 PM            62   0.2415
## 5:55 PM            61   0.2376
## 2:50 PM            60   0.2337
## 9:20 AM            60   0.2337
## 8:55 AM            59   0.2298
## 12:35 PM           58   0.2260
## 6:50 PM            58   0.2260
## 8:05 AM            58   0.2260
## (Other)          15211  59.2582
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2005-Only 2005-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter   Percentage
## -----
## 5:00 PM            285     1.0712
## 4:00 PM            268     1.0073
## 5:30 PM            262     0.9848
## 4:30 PM            239     0.8983
## 3:30 PM            222     0.8344
## 8:30 AM             217     0.8156
## 6:00 PM             206     0.7743
## 1:30 PM             198     0.7442
## 3:00 PM             187     0.7029
## 9:00 AM             184     0.6916
## 1:00 PM             181     0.6803
## 12:30 PM            178     0.6690
## 2:30 PM             174     0.6540

```

## 8:00 AM	174	0.6540
## 12:00 PM	173	0.6503
## 2:00 PM	170	0.6390
## 4:45 PM	169	0.6352
## 7:00 PM	164	0.6164
## 6:30 PM	159	0.5976
## 5:15 PM	156	0.5864
## 3:45 PM	147	0.5525
## 4:50 PM	140	0.5262
## 11:30 AM	139	0.5225
## 8:45 AM	136	0.5112
## 10:00 AM	134	0.5037
## 11:00 AM	130	0.4886
## 4:15 PM	130	0.4886
## 5:45 PM	130	0.4886
## 3:50 PM	125	0.4698
## 9:30 AM	125	0.4698
## 10:30 AM	122	0.4586
## 4:20 PM	121	0.4548
## 3:10 PM	119	0.4473
## 5:20 PM	119	0.4473
## 7:30 AM	119	0.4473
## 8:50 AM	118	0.4435
## 3:20 PM	117	0.4398
## 9:30 PM	113	0.4247
## 7:30 PM	111	0.4172
## 11:45 AM	106	0.3984
## 12:00 AM	106	0.3984
## 4:10 PM	103	0.3871
## 8:20 AM	100	0.3759
## 3:40 PM	99	0.3721
## 9:15 AM	99	0.3721
## 3:15 PM	97	0.3646
## 12:45 PM	96	0.3608
## 8:00 PM	96	0.3608
## 8:15 AM	95	0.3571
## 5:40 PM	94	0.3533
## 2:40 PM	93	0.3496
## 5:50 PM	92	0.3458
## 6:15 PM	91	0.3420
## 1:45 PM	90	0.3383
## 8:40 AM	90	0.3383
## 12:15 PM	89	0.3345
## 9:00 PM	86	0.3232
## 1:20 PM	85	0.3195
## 7:50 AM	85	0.3195
## 8:30 PM	85	0.3195
## 5:10 PM	82	0.3082

```

## 7:00 AM           82   0.3082
## 2:50 PM          80   0.3007
## 10:00 PM         79   0.2969
## 2:45 PM          79   0.2969
## 1:10 PM          78   0.2932
## 10:15 AM         77   0.2894
## 6:45 PM          75   0.2819
## 4:40 PM          73   0.2744
## 8:10 AM          73   0.2744
## 2:20 PM          72   0.2706
## 5:25 PM          71   0.2669
## 7:15 AM          71   0.2669
## 7:55 AM          71   0.2669
## 8:35 AM          71   0.2669
## 10:45 AM         70   0.2631
## 11:15 AM         69   0.2593
## 12:20 PM         69   0.2593
## 4:25 PM          69   0.2593
## 11:40 AM         68   0.2556
## 12:50 PM         68   0.2556
## 1:50 PM          67   0.2518
## 3:35 PM          67   0.2518
## 12:05 PM         66   0.2481
## 2:15 PM          66   0.2481
## 3:25 PM          66   0.2481
## 7:40 AM          65   0.2443
## 1:40 PM          64   0.2406
## 1:15 PM          63   0.2368
## 5:05 PM          63   0.2368
## 7:45 AM          63   0.2368
## 8:05 AM          63   0.2368
## 9:50 AM          63   0.2368
## 1:25 PM          62   0.2330
## 4:35 PM          62   0.2330
## 6:10 PM          62   0.2330
## 7:15 PM          62   0.2330
## 11:00 PM         61   0.2293
## 6:20 PM          59   0.2218
## (Other)          15576 58.5454
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2006-Only 2006-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##

```

```

## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value Counter Percentage
## -----
## 5:00 PM      287   1.1008
## 5:30 PM      249   0.9550
## 6:00 PM      247   0.9473
## 4:30 PM      242   0.9282
## 4:00 PM      218   0.8361
## 3:30 PM      209   0.8016
## 1:00 PM      208   0.7978
## 3:00 PM      192   0.7364
## 5:15 PM      181   0.6942
## 2:00 PM      180   0.6904
## 9:00 AM       173   0.6635
## 12:30 PM     171   0.6559
## 8:00 AM       166   0.6367
## 12:00 PM     164   0.6290
## 6:30 PM       164   0.6290
## 3:45 PM       162   0.6213
## 11:00 AM      158   0.6060
## 2:30 PM       151   0.5791
## 5:45 PM       150   0.5753
## 7:00 PM       150   0.5753
## 11:30 AM      149   0.5715
## 12:00 AM      143   0.5485
## 10:30 AM      141   0.5408
## 4:15 PM        138   0.5293
## 8:30 AM        135   0.5178
## 10:00 AM      133   0.5101
## 5:20 PM        127   0.4871
## 1:30 PM        124   0.4756
## 8:45 AM        117   0.4487
## 4:50 PM        115   0.4411
## 7:30 AM        115   0.4411
## 5:10 PM        113   0.4334
## 7:50 AM        113   0.4334
## 4:45 PM        109   0.4181
## 4:20 PM        108   0.4142
## 2:45 PM        106   0.4066
## 3:50 PM        105   0.4027
## 2:15 PM        102   0.3912
## 8:15 AM         102   0.3912
## 12:45 PM       101   0.3874
## 3:40 PM         101   0.3874
## 8:30 PM         101   0.3874

```



## 8:00 PM	97	0.3720
## 10:30 PM	96	0.3682
## 9:30 AM	94	0.3605
## 12:15 PM	93	0.3567
## 7:15 PM	93	0.3567
## 3:15 PM	92	0.3529
## 9:00 PM	90	0.3452
## 2:40 PM	89	0.3413
## 5:50 PM	88	0.3375
## 5:05 PM	87	0.3337
## 3:20 PM	86	0.3298
## 4:10 PM	85	0.3260
## 7:45 AM	85	0.3260
## 5:40 PM	84	0.3222
## 1:45 PM	83	0.3183
## 12:20 PM	83	0.3183
## 6:20 PM	83	0.3183
## 9:15 AM	83	0.3183
## 10:00 PM	81	0.3107
## 8:40 AM	79	0.3030
## 2:50 PM	78	0.2992
## 5:25 PM	78	0.2992
## 6:15 PM	78	0.2992
## 1:40 PM	77	0.2953
## 11:15 AM	77	0.2953
## 8:20 AM	77	0.2953
## 9:30 PM	76	0.2915
## 6:45 PM	75	0.2877
## 4:40 PM	74	0.2838
## 11:45 AM	73	0.2800
## 2:10 PM	73	0.2800
## 1:15 PM	72	0.2761
## 11:50 AM	72	0.2761
## 7:30 PM	70	0.2685
## 10:15 AM	69	0.2646
## 6:30 AM	69	0.2646
## 8:50 AM	68	0.2608
## 11:00 PM	67	0.2570
## 6:10 PM	67	0.2570
## 7:00 AM	67	0.2570
## 2:20 PM	66	0.2531
## 8:10 AM	66	0.2531
## 10:45 AM	65	0.2493
## 4:25 PM	64	0.2455
## 4:35 PM	64	0.2455
## 9:05 AM	64	0.2455
## 9:45 AM	63	0.2416
## 3:10 PM	62	0.2378

```

## 5:55 PM           61      0.2340
## 7:40 AM           61      0.2340
## 8:45 PM           61      0.2340
## 1:10 PM           60      0.2301
## 12:40 PM          60      0.2301
## 4:05 PM           59      0.2263
## 9:10 AM           59      0.2263
## 12:50 PM          58      0.2225
## 3:35 PM           58      0.2225
## (Other)          15394   59.0419
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2007-Only 2007-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value     Counter   Percentage
## -----
## 4:00 PM           282      1.0160
## 5:00 PM           275      0.9908
## 5:30 PM           271      0.9764
## 3:30 PM           232      0.8359
## 12:00 AM          225      0.8107
## 4:30 PM           219      0.7890
## 6:00 PM           219      0.7890
## 3:00 PM           212      0.7638
## 8:30 AM            208      0.7494
## 8:00 AM            205      0.7386
## 2:00 PM            185      0.6665
## 9:00 AM            178      0.6413
## 1:00 PM            168      0.6053
## 12:00 PM           161      0.5801
## 4:45 PM            161      0.5801
## 11:00 AM           153      0.5513
## 1:30 PM            151      0.5440
## 6:30 PM            149      0.5368
## 4:15 PM            144      0.5188
## 2:30 PM            142      0.5116
## 7:00 PM            141      0.5080
## 12:30 PM           134      0.4828
## 5:45 PM            132      0.4756

```

## 5:15 PM	128	0.4612
## 8:15 AM	126	0.4540
## 4:40 PM	124	0.4468
## 10:00 AM	120	0.4324
## 7:30 AM	120	0.4324
## 3:45 PM	118	0.4251
## 5:20 PM	118	0.4251
## 5:10 PM	116	0.4179
## 7:30 PM	115	0.4143
## 11:30 AM	113	0.4071
## 4:50 PM	113	0.4071
## 4:10 PM	109	0.3927
## 8:20 AM	108	0.3891
## 8:45 AM	108	0.3891
## 3:15 PM	107	0.3855
## 10:30 AM	106	0.3819
## 4:20 PM	101	0.3639
## 7:50 AM	101	0.3639
## 8:50 AM	101	0.3639
## 5:40 PM	99	0.3567
## 3:50 PM	98	0.3531
## 12:15 PM	95	0.3423
## 2:15 PM	95	0.3423
## 5:50 PM	94	0.3387
## 6:15 PM	94	0.3387
## 8:40 AM	94	0.3387
## 9:30 AM	94	0.3387
## 1:15 PM	93	0.3351
## 7:45 AM	93	0.3351
## 8:00 PM	93	0.3351
## 9:10 AM	91	0.3279
## 12:50 PM	90	0.3243
## 3:40 PM	90	0.3243
## 4:05 PM	90	0.3243
## 3:20 PM	89	0.3207
## 7:00 AM	89	0.3207
## 2:50 PM	88	0.3171
## 9:00 PM	88	0.3171
## 12:45 PM	84	0.3026
## 5:25 PM	83	0.2990
## 2:20 PM	82	0.2954
## 12:20 PM	81	0.2918
## 3:10 PM	81	0.2918
## 8:10 AM	80	0.2882
## 1:20 PM	77	0.2774
## 1:40 PM	77	0.2774
## 8:55 AM	76	0.2738
## 2:40 PM	73	0.2630



```
## 2:45 PM          72    0.2594
## 5:35 PM          72    0.2594
## 6:45 PM          72    0.2594
## 11:00 PM         71    0.2558
## 7:15 AM          71    0.2558
## 9:30 PM          71    0.2558
## 9:40 AM          71    0.2558
## 12:10 PM         70    0.2522
## 12:40 PM         70    0.2522
## 10:00 PM         69    0.2486
## 3:25 PM          69    0.2486
## 2:55 PM          68    0.2450
## 6:20 PM          68    0.2450
## 7:40 AM          67    0.2414
## 1:45 PM          66    0.2378
## 11:45 AM         66    0.2378
## 10:15 AM         65    0.2342
## 8:30 PM          65    0.2342
## 9:15 AM          65    0.2342
## 1:50 PM          63    0.2270
## 4:25 PM          63    0.2270
## 5:05 PM          63    0.2270
## 7:55 AM          63    0.2270
## 9:45 AM          63    0.2270
## 1:55 PM          62    0.2234
## 8:05 AM          62    0.2234
## 10:45 AM         61    0.2198
## 2:10 PM          60    0.2162
## (Other)          16837 60.6629
##
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2008-Only 2008-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value   Counter Percentage
## -----
## 4:30 PM          324    1.1368
## 4:00 PM          312    1.0947
## 5:00 PM          295    1.0350
## 5:30 PM          275    0.9648
```

## 3:30 PM	228	0.7999
## 9:00 AM	211	0.7403
## 1:00 PM	204	0.7157
## 2:00 PM	198	0.6947
## 8:00 AM	195	0.6842
## 2:30 PM	193	0.6771
## 12:00 AM	187	0.6561
## 6:00 PM	186	0.6526
## 12:30 PM	185	0.6491
## 5:15 PM	178	0.6245
## 3:00 PM	177	0.6210
## 8:30 AM	168	0.5894
## 1:30 PM	157	0.5508
## 4:45 PM	156	0.5473
## 12:00 PM	153	0.5368
## 6:30 PM	152	0.5333
## 7:00 PM	145	0.5087
## 7:30 AM	142	0.4982
## 11:30 AM	141	0.4947
## 4:15 PM	138	0.4842
## 10:00 AM	136	0.4772
## 11:00 AM	135	0.4737
## 3:15 PM	135	0.4737
## 4:20 PM	134	0.4701
## 5:45 PM	133	0.4666
## 3:45 PM	123	0.4315
## 7:00 AM	121	0.4245
## 5:20 PM	120	0.4210
## 9:30 AM	119	0.4175
## 10:30 AM	117	0.4105
## 5:10 PM	117	0.4105
## 7:30 PM	116	0.4070
## 8:00 PM	110	0.3859
## 8:20 AM	110	0.3859
## 12:15 PM	109	0.3824
## 8:15 AM	106	0.3719
## 8:50 AM	106	0.3719
## 3:50 PM	102	0.3579
## 4:50 PM	101	0.3544
## 9:15 AM	100	0.3509
## 5:40 PM	99	0.3473
## 7:45 AM	98	0.3438
## 8:45 AM	98	0.3438
## 3:10 PM	96	0.3368
## 3:40 PM	96	0.3368
## 6:15 PM	94	0.3298
## 2:45 PM	93	0.3263
## 9:30 PM	93	0.3263

## 12:45 PM	90	0.3158
## 4:10 PM	89	0.3123
## 2:15 PM	88	0.3088
## 10:00 PM	86	0.3017
## 5:50 PM	86	0.3017
## 8:40 AM	86	0.3017
## 10:30 PM	85	0.2982
## 5:25 PM	84	0.2947
## 8:10 AM	84	0.2947
## 4:40 PM	83	0.2912
## 6:20 PM	83	0.2912
## 9:45 AM	83	0.2912
## 12:10 PM	80	0.2807
## 1:15 PM	77	0.2702
## 11:45 AM	77	0.2702
## 9:00 PM	77	0.2702
## 6:30 AM	74	0.2596
## 8:55 AM	74	0.2596
## 1:45 PM	73	0.2561
## 11:00 PM	73	0.2561
## 7:50 AM	73	0.2561
## 11:15 AM	72	0.2526
## 2:40 PM	72	0.2526
## 7:15 PM	71	0.2491
## 9:40 AM	71	0.2491
## 5:05 PM	70	0.2456
## 10:45 AM	69	0.2421
## 7:40 AM	69	0.2421
## 8:30 PM	69	0.2421
## 1:40 PM	68	0.2386
## 12:50 PM	68	0.2386
## 6:25 PM	68	0.2386
## 1:50 PM	67	0.2351
## 10:50 AM	67	0.2351
## 2:50 PM	67	0.2351
## 4:25 PM	67	0.2351
## 1:10 PM	66	0.2316
## 4:05 PM	66	0.2316
## 1:20 PM	65	0.2281
## 3:20 PM	64	0.2245
## 4:35 PM	64	0.2245
## 1:35 PM	63	0.2210
## 10:15 AM	61	0.2140
## 12:20 PM	61	0.2140
## 9:20 AM	61	0.2140
## 9:50 AM	61	0.2140
## 12:40 PM	60	0.2105
## (Other)	17253	60.5326

```

## 
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2009-Only 2009-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter   Percentage
## -----
## 4:00 PM            293       1.0298
## 5:30 PM            268       0.9419
## 4:30 PM            267       0.9384
## 3:00 PM            264       0.9278
## 3:30 PM            254       0.8927
## 5:00 PM            249       0.8751
## 8:30 AM             209       0.7345
## 12:00 AM            205       0.7205
## 2:30 PM             203       0.7135
## 1:00 PM             195       0.6853
## 8:00 AM             191       0.6713
## 12:00 PM            188       0.6607
## 2:00 PM             184       0.6467
## 6:00 PM             180       0.6326
## 9:00 AM              179       0.6291
## 4:15 PM              171       0.6010
## 1:30 PM              170       0.5975
## 6:30 PM              170       0.5975
## 12:30 PM             166       0.5834
## 5:15 PM              163       0.5729
## 3:45 PM              159       0.5588
## 4:45 PM              155       0.5448
## 7:00 PM              148       0.5202
## 11:00 AM             146       0.5131
## 11:30 AM             142       0.4991
## 3:15 PM              141       0.4956
## 7:30 AM              140       0.4920
## 8:15 AM              140       0.4920
## 10:00 AM             136       0.4780
## 4:20 PM              132       0.4639
## 5:45 PM              130       0.4569
## 3:50 PM              127       0.4464
## 9:30 AM              122       0.4288

```

## 4:40 PM	121	0.4253
## 12:15 PM	118	0.4147
## 3:20 PM	115	0.4042
## 4:50 PM	108	0.3796
## 10:30 AM	105	0.3690
## 4:10 PM	104	0.3655
## 5:20 PM	104	0.3655
## 7:45 AM	102	0.3585
## 8:10 AM	100	0.3515
## 8:45 AM	100	0.3515
## 8:00 PM	99	0.3479
## 1:15 PM	96	0.3374
## 5:40 PM	95	0.3339
## 3:40 PM	94	0.3304
## 8:20 AM	92	0.3233
## 9:30 PM	92	0.3233
## 1:20 PM	91	0.3198
## 2:45 PM	88	0.3093
## 6:15 PM	87	0.3058
## 6:45 PM	86	0.3023
## 7:00 AM	84	0.2952
## 9:00 PM	84	0.2952
## 12:40 PM	83	0.2917
## 2:40 PM	83	0.2917
## 9:15 AM	83	0.2917
## 12:10 PM	80	0.2812
## 8:40 AM	80	0.2812
## 7:30 PM	79	0.2777
## 12:50 PM	78	0.2741
## 5:10 PM	78	0.2741
## 5:35 PM	78	0.2741
## 5:50 PM	78	0.2741
## 1:45 PM	77	0.2706
## 10:45 AM	77	0.2706
## 11:20 AM	77	0.2706
## 12:45 PM	77	0.2706
## 6:20 PM	76	0.2671
## 7:15 AM	76	0.2671
## 8:30 PM	76	0.2671
## 7:50 AM	75	0.2636
## 2:15 PM	74	0.2601
## 10:00 PM	73	0.2566
## 11:40 AM	73	0.2566
## 2:50 PM	73	0.2566
## 5:05 PM	73	0.2566
## 11:15 AM	72	0.2530
## 6:40 PM	72	0.2530
## 1:50 PM	70	0.2460

```

## 6:30 AM           70   0.2460
## 11:45 AM          69   0.2425
## 4:55 PM           69   0.2425
## 6:50 PM           69   0.2425
## 2:10 PM           68   0.2390
## 6:50 AM           67   0.2355
## 8:50 AM           67   0.2355
## 4:05 PM           66   0.2320
## 6:45 AM           66   0.2320
## 9:45 AM           66   0.2320
## 2:20 PM           65   0.2284
## 4:25 PM           65   0.2284
## 8:05 AM           65   0.2284
## 10:30 PM          64   0.2249
## 11:00 PM          64   0.2249
## 3:10 PM           64   0.2249
## 3:25 PM           64   0.2249
## 7:40 AM           63   0.2214
## (Other)          17119 60.1659
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2010-Only 2010-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter   Percentage
## -----
## 5:00 PM            311      1.1316
## 4:30 PM            288      1.0479
## 5:30 PM            272      0.9897
## 4:00 PM            260      0.9460
## 3:30 PM            216      0.7859
## 6:00 PM            197      0.7168
## 2:00 PM            195      0.7095
## 12:00 AM           193      0.7023
## 8:30 AM             186      0.6768
## 3:00 PM             172      0.6258
## 2:30 PM             166      0.6040
## 1:30 PM             165      0.6004
## 5:15 PM             156      0.5676
## 7:00 PM             156      0.5676

```

## 12:30 PM	155	0.5640
## 6:30 PM	153	0.5567
## 1:00 PM	152	0.5531
## 3:45 PM	149	0.5422
## 12:00 PM	145	0.5276
## 4:15 PM	142	0.5167
## 8:00 AM	142	0.5167
## 9:00 AM	142	0.5167
## 4:45 PM	137	0.4985
## 10:00 AM	131	0.4767
## 2:45 PM	127	0.4621
## 3:40 PM	126	0.4585
## 11:00 AM	123	0.4475
## 4:50 PM	122	0.4439
## 11:30 AM	119	0.4330
## 4:40 PM	117	0.4257
## 5:10 PM	115	0.4184
## 5:45 PM	114	0.4148
## 5:20 PM	112	0.4075
## 8:15 AM	112	0.4075
## 9:30 AM	112	0.4075
## 3:10 PM	109	0.3966
## 3:15 PM	108	0.3930
## 3:50 PM	108	0.3930
## 7:30 PM	108	0.3930
## 7:50 AM	108	0.3930
## 8:40 AM	107	0.3893
## 4:20 PM	106	0.3857
## 4:10 PM	100	0.3639
## 8:20 AM	97	0.3529
## 3:20 PM	96	0.3493
## 5:40 PM	95	0.3457
## 5:50 PM	95	0.3457
## 8:00 PM	91	0.3311
## 6:15 PM	88	0.3202
## 7:30 AM	88	0.3202
## 7:00 AM	87	0.3166
## 7:45 AM	84	0.3056
## 1:10 PM	83	0.3020
## 3:55 PM	83	0.3020
## 9:00 PM	81	0.2947
## 10:30 AM	80	0.2911
## 12:15 PM	80	0.2911
## 12:45 PM	79	0.2875
## 8:45 AM	78	0.2838
## 1:15 PM	77	0.2802
## 2:50 PM	77	0.2802
## 7:20 AM	77	0.2802

```

## 8:10 AM           77   0.2802
## 1:45 PM          76   0.2765
## 10:45 AM         74   0.2693
## 6:45 AM          74   0.2693
## 4:05 PM          73   0.2656
## 9:15 AM          73   0.2656
## 12:50 PM         72   0.2620
## 6:45 PM          72   0.2620
## 6:50 PM          72   0.2620
## 2:10 PM          70   0.2547
## 5:35 PM          70   0.2547
## 2:15 PM          69   0.2511
## 2:20 PM          69   0.2511
## 1:40 PM          68   0.2474
## 12:20 PM         68   0.2474
## 7:40 AM          68   0.2474
## 2:40 PM          67   0.2438
## 6:10 PM          67   0.2438
## 5:25 PM          66   0.2401
## 8:50 AM          66   0.2401
## 3:35 PM          65   0.2365
## 8:30 PM          65   0.2365
## 10:30 PM         64   0.2329
## 11:45 AM         64   0.2329
## 4:55 PM          64   0.2329
## 12:10 PM         63   0.2292
## 6:40 PM          63   0.2292
## 3:25 PM          62   0.2256
## 6:20 PM          62   0.2256
## 7:15 PM          62   0.2256
## 8:55 AM          62   0.2256
## 10:00 PM         61   0.2220
## 9:10 AM          61   0.2220
## 1:20 PM          59   0.2147
## 4:25 PM          59   0.2147
## 9:45 AM          59   0.2147
## 2:35 PM          57   0.2074
## (Other)          16870 61.3834
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2011-Only 2011-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100

```

```
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter   Percentage
## -----
## 5:00 PM            258       0.9247
## 4:00 PM            253       0.9068
## 3:30 PM            244       0.8746
## 3:00 PM            226       0.8100
## 6:00 PM            215       0.7706
## 12:00 AM           209       0.7491
## 5:30 PM            209       0.7491
## 4:30 PM            204       0.7312
## 2:00 PM             198       0.7097
## 8:00 AM             188       0.6738
## 9:00 AM             181       0.6487
## 12:00 PM            179       0.6416
## 8:30 AM             176       0.6308
## 4:15 PM             168       0.6022
## 4:45 PM             164       0.5878
## 11:30 AM            161       0.5771
## 5:15 PM             155       0.5556
## 1:00 PM              152       0.5448
## 12:30 PM            152       0.5448
## 5:20 PM             150       0.5376
## 6:30 PM             146       0.5233
## 3:45 PM              144       0.5161
## 9:30 AM              140       0.5018
## 1:30 PM              136       0.4875
## 11:00 AM             132       0.4731
## 2:30 PM              129       0.4624
## 7:00 PM              127       0.4552
## 10:00 AM             123       0.4409
## 3:15 PM              121       0.4337
## 7:30 AM              120       0.4301
## 10:30 AM             115       0.4122
## 8:45 AM              115       0.4122
## 4:10 PM              113       0.4050
## 5:10 PM              111       0.3978
## 2:15 PM              110       0.3943
## 3:20 PM              110       0.3943
## 8:15 AM              109       0.3907
## 5:45 PM              108       0.3871
## 4:20 PM              106       0.3799
## 12:45 PM             104       0.3728
## 4:50 PM              103       0.3692
## 2:45 PM              101       0.3620
## 3:40 PM              101       0.3620
```

## 3:50 PM	99	0.3548
## 5:40 PM	99	0.3548
## 8:20 AM	95	0.3405
## 8:50 AM	93	0.3333
## 4:40 PM	92	0.3297
## 2:50 PM	89	0.3190
## 4:55 PM	89	0.3190
## 3:10 PM	88	0.3154
## 6:45 PM	88	0.3154
## 7:30 PM	88	0.3154
## 7:50 AM	88	0.3154
## 7:00 AM	85	0.3047
## 7:20 AM	80	0.2867
## 8:00 PM	78	0.2796
## 1:45 PM	77	0.2760
## 11:00 PM	77	0.2760
## 4:35 PM	77	0.2760
## 5:05 PM	77	0.2760
## 5:25 PM	77	0.2760
## 6:10 PM	77	0.2760
## 9:20 AM	77	0.2760
## 10:15 AM	76	0.2724
## 1:15 PM	75	0.2688
## 9:30 PM	75	0.2688
## 6:50 AM	74	0.2652
## 10:45 AM	73	0.2616
## 5:50 PM	73	0.2616
## 9:15 AM	73	0.2616
## 9:35 AM	73	0.2616
## 2:40 PM	72	0.2581
## 8:40 AM	71	0.2545
## 8:30 PM	70	0.2509
## 12:20 PM	69	0.2473
## 7:15 PM	69	0.2473
## 9:10 AM	68	0.2437
## 12:15 PM	67	0.2401
## 12:40 PM	66	0.2366
## 6:20 PM	65	0.2330
## 8:25 AM	65	0.2330
## 1:20 PM	64	0.2294
## 6:15 PM	64	0.2294
## 10:00 PM	63	0.2258
## 12:10 PM	63	0.2258
## 6:30 AM	63	0.2258
## 9:45 AM	63	0.2258
## 1:50 PM	62	0.2222
## 12:50 PM	62	0.2222
## 4:05 PM	62	0.2222

```

## 9:00 PM           62      0.2222
## 11:50 AM          61      0.2186
## 8:35 AM          61      0.2186
## 9:05 AM          61      0.2186
## 9:40 AM          61      0.2186
## 7:45 AM          60      0.2151
## 8:55 AM          60      0.2151
## 3:25 PM          58      0.2079
## (Other)         17220    61.7204
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2012-Only 2012-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value   Counter   Percentage
## -----
## 4:00 PM          314      1.1836
## 5:00 PM          267      1.0064
## 3:30 PM          248      0.9348
## 5:30 PM          244      0.9197
## 3:00 PM          234      0.8820
## 12:00 AM         227      0.8556
## 4:30 PM          215      0.8104
## 6:00 PM          187      0.7049
## 9:00 AM          175      0.6596
## 2:30 PM          171      0.6446
## 8:00 AM          167      0.6295
## 12:00 PM         164      0.6182
## 12:30 PM         164      0.6182
## 2:00 PM          164      0.6182
## 8:30 AM          161      0.6069
## 4:20 PM          148      0.5579
## 11:00 AM         145      0.5466
## 7:30 AM          143      0.5390
## 11:30 AM         141      0.5315
## 6:30 PM          140      0.5277
## 1:00 PM          138      0.5202
## 10:00 AM         138      0.5202
## 7:00 PM          133      0.5013
## 4:40 PM          132      0.4975

```

## 4:15 PM	131	0.4938
## 5:10 PM	130	0.4900
## 3:15 PM	128	0.4825
## 4:10 PM	124	0.4674
## 5:20 PM	122	0.4599
## 1:30 PM	120	0.4523
## 3:45 PM	120	0.4523
## 4:45 PM	116	0.4372
## 9:30 AM	116	0.4372
## 12:45 PM	114	0.4297
## 5:15 PM	114	0.4297
## 2:45 PM	107	0.4033
## 4:50 PM	107	0.4033
## 3:50 PM	106	0.3995
## 8:50 AM	105	0.3958
## 3:20 PM	101	0.3807
## 10:30 AM	100	0.3769
## 5:45 PM	97	0.3656
## 8:00 PM	97	0.3656
## 3:40 PM	96	0.3619
## 5:35 PM	94	0.3543
## 8:40 AM	91	0.3430
## 11:50 AM	90	0.3392
## 8:45 AM	90	0.3392
## 7:50 AM	89	0.3355
## 5:50 PM	86	0.3242
## 7:00 AM	85	0.3204
## 8:15 AM	85	0.3204
## 2:15 PM	81	0.3053
## 9:15 AM	81	0.3053
## 1:15 PM	79	0.2978
## 12:15 PM	79	0.2978
## 6:10 PM	79	0.2978
## 3:35 PM	78	0.2940
## 7:15 AM	78	0.2940
## 5:40 PM	77	0.2902
## 11:45 AM	75	0.2827
## 9:00 PM	75	0.2827
## 3:10 PM	73	0.2752
## 6:30 AM	72	0.2714
## 11:15 AM	71	0.2676
## 12:50 PM	71	0.2676
## 7:45 AM	71	0.2676
## 6:45 PM	70	0.2639
## 8:55 AM	68	0.2563
## 9:20 AM	68	0.2563
## 1:10 PM	67	0.2525
## 7:30 PM	65	0.2450

```

## 8:20 AM           65   0.2450
## 2:20 PM          64   0.2412
## 3:55 PM          64   0.2412
## 1:45 PM          63   0.2375
## 6:45 AM          63   0.2375
## 8:10 AM          63   0.2375
## 4:35 PM          62   0.2337
## 2:50 PM          61   0.2299
## 6:15 PM          61   0.2299
## 9:45 AM          61   0.2299
## 4:55 PM          60   0.2262
## 9:10 AM          60   0.2262
## 10:00 PM         59   0.2224
## 12:55 PM         58   0.2186
## 5:05 PM          58   0.2186
## 1:50 PM          56   0.2111
## 2:40 PM          56   0.2111
## 4:25 PM          56   0.2111
## 9:30 PM          56   0.2111
## 9:50 AM          55   0.2073
## 12:10 PM         54   0.2035
## 5:55 PM          54   0.2035
## 10:45 AM         53   0.1998
## 5:25 PM          53   0.1998
## 12:20 PM         52   0.1960
## 2:55 PM          52   0.1960
## 3:25 PM          51   0.1922
## (Other)          16161 60.9159
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2013-Only 2013-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter  Percentage
## -----
## 4:30 PM            269     0.9617
## 5:00 PM            239     0.8545
## 4:00 PM            225     0.8044
## 1:00 PM            224     0.8008
## 5:30 PM            213     0.7615

```

## 3:30 PM	209	0.7472
## 3:00 PM	202	0.7222
## 4:15 PM	180	0.6435
## 1:30 PM	177	0.6328
## 12:00 PM	175	0.6256
## 6:00 PM	169	0.6042
## 9:00 AM	169	0.6042
## 8:00 AM	162	0.5792
## 2:00 PM	159	0.5684
## 12:00 AM	154	0.5506
## 2:30 PM	154	0.5506
## 11:30 AM	152	0.5434
## 8:30 AM	150	0.5363
## 12:30 PM	145	0.5184
## 7:00 PM	126	0.4505
## 11:00 AM	125	0.4469
## 5:15 PM	125	0.4469
## 12:15 PM	124	0.4433
## 10:00 AM	121	0.4326
## 3:15 PM	120	0.4290
## 5:20 PM	120	0.4290
## 6:30 PM	120	0.4290
## 8:15 AM	115	0.4111
## 4:45 PM	114	0.4076
## 3:45 PM	111	0.3968
## 8:45 AM	111	0.3968
## 9:30 AM	109	0.3897
## 8:50 AM	104	0.3718
## 10:30 AM	102	0.3647
## 3:20 PM	101	0.3611
## 2:45 PM	99	0.3539
## 5:45 PM	99	0.3539
## 7:30 AM	99	0.3539
## 12:45 PM	98	0.3504
## 4:50 PM	97	0.3468
## 7:45 AM	97	0.3468
## 5:40 PM	93	0.3325
## 7:30 PM	93	0.3325
## 8:20 AM	93	0.3325
## 12:20 PM	92	0.3289
## 8:00 PM	92	0.3289
## 9:45 AM	91	0.3253
## 5:10 PM	90	0.3218
## 7:00 AM	87	0.3110
## 3:10 PM	84	0.3003
## 2:50 PM	82	0.2932
## 5:50 PM	82	0.2932
## 4:40 PM	81	0.2896

## 4:20 PM	79	0.2824
## 9:10 AM	78	0.2789
## 12:50 PM	76	0.2717
## 5:25 PM	76	0.2717
## 8:40 AM	76	0.2717
## 9:15 AM	76	0.2717
## 1:45 PM	74	0.2646
## 3:40 PM	74	0.2646
## 4:35 PM	74	0.2646
## 1:20 PM	73	0.2610
## 2:15 PM	73	0.2610
## 5:05 PM	72	0.2574
## 4:10 PM	71	0.2538
## 8:10 AM	70	0.2503
## 3:50 PM	68	0.2431
## 6:45 AM	68	0.2431
## 6:10 PM	66	0.2360
## 9:40 AM	66	0.2360
## 7:50 AM	65	0.2324
## 9:00 PM	65	0.2324
## 11:50 AM	62	0.2217
## 5:55 PM	62	0.2217
## 8:35 AM	62	0.2217
## 1:15 PM	61	0.2181
## 3:35 PM	61	0.2181
## 4:05 PM	61	0.2181
## 7:20 AM	61	0.2181
## 2:20 PM	60	0.2145
## 2:40 PM	60	0.2145
## 1:10 PM	59	0.2109
## 12:40 PM	59	0.2109
## 6:30 AM	59	0.2109
## 8:30 PM	59	0.2109
## 11:40 AM	58	0.2074
## 8:55 AM	58	0.2074
## 9:20 AM	58	0.2074
## 12:10 PM	57	0.2038
## 6:40 PM	56	0.2002
## 6:45 PM	56	0.2002
## 10:00 PM	55	0.1966
## 6:15 PM	55	0.1966
## 6:20 PM	55	0.1966
## 11:15 AM	54	0.1931
## 7:40 AM	54	0.1931
## 10:45 AM	53	0.1895
## 8:25 AM	53	0.1895
## (Other)	17999	64.3488
##		

```

## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2014-Only 2014-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value Counter Percentage
## -----
## 12:00 AM      269   0.9856
## 5:30 PM       231   0.8464
## 3:30 PM       207   0.7585
## 6:00 PM        202   0.7401
## 8:30 AM        201   0.7365
## 4:00 PM        199   0.7292
## 5:00 PM        197   0.7218
## 3:00 PM        186   0.6815
## 4:30 PM        184   0.6742
## 1:00 PM        165   0.6046
## 9:00 AM         160   0.5863
## 2:00 PM         155   0.5679
## 8:00 AM         148   0.5423
## 6:30 PM         142   0.5203
## 4:45 PM         141   0.5166
## 12:00 PM        135   0.4947
## 11:00 AM        131   0.4800
## 1:30 PM         130   0.4763
## 10:00 AM        130   0.4763
## 5:15 PM         130   0.4763
## 2:30 PM         127   0.4653
## 4:15 PM         126   0.4617
## 12:30 PM        121   0.4434
## 7:00 PM         121   0.4434
## 11:30 AM        120   0.4397
## 5:20 PM         119   0.4360
## 5:45 PM         119   0.4360
## 8:45 AM          119   0.4360
## 7:45 AM          111   0.4067
## 3:45 PM          110   0.4030
## 8:15 AM           107   0.3921
## 9:30 AM           105   0.3847
## 12:45 PM          104   0.3811
## 2:45 PM           104   0.3811

```



## 3:15 PM	98	0.3591
## 4:20 PM	98	0.3591
## 1:15 PM	96	0.3518
## 10:30 AM	92	0.3371
## 6:15 PM	92	0.3371
## 4:50 PM	89	0.3261
## 2:15 PM	87	0.3188
## 12:20 PM	86	0.3151
## 4:40 PM	86	0.3151
## 7:00 AM	86	0.3151
## 3:20 PM	84	0.3078
## 9:15 AM	83	0.3041
## 7:30 AM	82	0.3005
## 8:00 PM	82	0.3005
## 8:40 AM	81	0.2968
## 9:45 AM	79	0.2895
## 12:15 PM	78	0.2858
## 7:30 PM	78	0.2858
## 1:45 PM	77	0.2821
## 3:50 PM	76	0.2785
## 11:45 AM	75	0.2748
## 2:40 PM	75	0.2748
## 4:25 PM	75	0.2748
## 5:10 PM	74	0.2711
## 5:40 PM	74	0.2711
## 2:50 PM	73	0.2675
## 9:50 AM	73	0.2675
## 4:10 PM	72	0.2638
## 9:00 PM	71	0.2601
## 10:45 AM	70	0.2565
## 8:10 AM	70	0.2565
## 8:50 AM	70	0.2565
## 11:15 AM	68	0.2492
## 3:40 PM	68	0.2492
## 8:20 AM	68	0.2492
## 6:20 PM	66	0.2418
## 11:20 AM	63	0.2308
## 1:40 PM	62	0.2272
## 7:50 AM	62	0.2272
## 4:55 PM	61	0.2235
## 6:45 PM	60	0.2198
## 4:05 PM	59	0.2162
## 6:10 PM	59	0.2162
## 9:30 PM	58	0.2125
## 1:50 PM	57	0.2089
## 4:48 PM	57	0.2089
## 9:20 AM	57	0.2089
## 1:25 PM	56	0.2052

```

## 8:25 AM           56   0.2052
## 5:35 PM          55   0.2015
## 10:15 AM         54   0.1979
## 10:20 AM         52   0.1905
## 11:50 AM         52   0.1905
## 5:25 PM          52   0.1905
## 5:50 PM          52   0.1905
## 6:30 AM          52   0.1905
## 12:50 PM         51   0.1869
## 5:05 PM          51   0.1869
## 5:38 PM          51   0.1869
## 6:50 AM          51   0.1869
## 1:10 PM          50   0.1832
## 10:00 PM         50   0.1832
## 10:50 AM         50   0.1832
## 12:40 PM         50   0.1832
## 3:35 PM          50   0.1832
## (Other)        17794 65.1986
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2015-Only 2015-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value   Counter   Percentage
## -----
## 12:00 AM        261      0.9366
## 5:00 PM          193      0.6926
## 4:00 PM          183      0.6567
## 5:30 PM          181      0.6495
## 3:00 PM          163      0.5849
## 6:00 PM          148      0.5311
## 3:30 PM          134      0.4809
## 4:30 PM          128      0.4593
## 4:15 PM          122      0.4378
## 9:00 AM          121      0.4342
## 4:20 PM          118      0.4234
## 4:45 PM          117      0.4199
## 12:30 PM         116      0.4163
## 3:15 PM          113      0.4055
## 8:00 AM          109      0.3911

```

## 12:00 PM	108	0.3876
## 8:45 AM	106	0.3804
## 8:30 AM	104	0.3732
## 2:30 PM	101	0.3624
## 3:45 PM	101	0.3624
## 6:30 PM	101	0.3624
## 1:00 PM	100	0.3588
## 10:30 AM	100	0.3588
## 2:00 PM	98	0.3517
## 2:45 PM	98	0.3517
## 8:20 AM	97	0.3481
## 7:30 AM	96	0.3445
## 5:15 PM	94	0.3373
## 11:00 AM	93	0.3337
## 5:10 PM	93	0.3337
## 5:45 PM	91	0.3266
## 12:15 PM	90	0.3230
## 9:30 AM	90	0.3230
## 11:30 AM	89	0.3194
## 3:20 PM	83	0.2978
## 1:30 PM	82	0.2943
## 3:50 PM	82	0.2943
## 8:40 AM	82	0.2943
## 3:10 PM	81	0.2907
## 1:15 PM	80	0.2871
## 5:20 PM	80	0.2871
## 8:15 AM	78	0.2799
## 7:00 PM	77	0.2763
## 6:20 PM	76	0.2727
## 8:55 AM	76	0.2727
## 4:50 PM	75	0.2691
## 5:50 PM	74	0.2655
## 7:40 AM	72	0.2584
## 3:40 PM	71	0.2548
## 7:00 AM	71	0.2548
## 8:00 PM	71	0.2548
## 8:50 AM	70	0.2512
## 7:15 AM	69	0.2476
## 8:10 AM	69	0.2476
## 4:40 PM	68	0.2440
## 4:10 PM	67	0.2404
## 5:40 PM	67	0.2404
## 7:45 AM	67	0.2404
## 9:15 AM	66	0.2368
## 4:32 PM	64	0.2297
## 4:35 PM	64	0.2297
## 10:15 AM	63	0.2261
## 12:10 PM	63	0.2261

```

## 12:45 PM           63   0.2261
## 12:50 PM           63   0.2261
## 7:20 AM            63   0.2261
## 10:00 AM           62   0.2225
## 6:15 PM            62   0.2225
## 6:45 AM            62   0.2225
## 4:48 PM            59   0.2117
## 2:40 PM            58   0.2081
## 3:25 PM            58   0.2081
## 4:25 PM            58   0.2081
## 6:10 PM            56   0.2010
## 9:45 AM            56   0.2010
## 5:24 PM            55   0.1974
## 7:50 AM            55   0.1974
## 2:15 PM            53   0.1902
## 11:40 AM           52   0.1866
## 8:25 AM            52   0.1866
## 9:10 AM            52   0.1866
## 11:20 AM           51   0.1830
## 12:25 PM           51   0.1830
## 5:22 PM            51   0.1830
## 5:27 PM            51   0.1830
## 6:30 AM            51   0.1830
## 4:14 PM            50   0.1794
## 9:40 AM            50   0.1794
## 2:20 PM            49   0.1758
## 4:58 PM            49   0.1758
## 1:40 PM            48   0.1722
## 11:45 AM           48   0.1722
## 4:16 PM            48   0.1722
## 5:03 PM            48   0.1722
## 6:45 PM            48   0.1722
## 9:35 AM            48   0.1722
## 4:53 PM            47   0.1687
## 5:17 PM            47   0.1687
## 7:30 PM            47   0.1687
## (Other)          19781  70.9836
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2016-Only 2016-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##

```

```

## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter   Percentage
## -----
## 12:00 AM           254       0.9823
## 3:30 PM            156       0.6033
## 4:00 PM            151       0.5840
## 4:30 PM            135       0.5221
## 5:30 PM            124       0.4795
## 6:00 PM            120       0.4641
## 8:30 AM            115       0.4447
## 5:00 PM            114       0.4409
## 4:45 PM            113       0.4370
## 3:00 PM            111       0.4293
## 9:00 AM            111       0.4293
## 7:00 PM            103       0.3983
## 8:00 AM            103       0.3983
## 5:15 PM            102       0.3945
## 3:45 PM            100       0.3867
## 2:00 PM             98       0.3790
## 6:30 PM             97       0.3751
## 1:00 PM             93       0.3597
## 8:45 AM             93       0.3597
## 4:40 PM             89       0.3442
## 3:15 PM             87       0.3365
## 7:30 AM             87       0.3365
## 5:20 PM             85       0.3287
## 4:50 PM             84       0.3249
## 5:45 PM             84       0.3249
## 2:50 PM             83       0.3210
## 10:00 AM            79       0.3055
## 12:30 PM            78       0.3016
## 7:45 AM             78       0.3016
## 4:10 PM             76       0.2939
## 11:30 AM            75       0.2900
## 2:45 PM             75       0.2900
## 4:20 PM             75       0.2900
## 3:20 PM             74       0.2862
## 4:15 PM             74       0.2862
## 1:30 PM              71       0.2746
## 3:40 PM              71       0.2746
## 10:30 AM             70       0.2707
## 6:20 PM              70       0.2707
## 11:00 AM             69       0.2668
## 3:10 PM              68       0.2630
## 2:30 PM              67       0.2591
## 6:45 AM              67       0.2591
## 8:40 AM              67       0.2591

```

## 12:00 PM	65	0.2514
## 8:00 PM	65	0.2514
## 12:15 PM	64	0.2475
## 3:50 PM	63	0.2436
## 8:15 AM	63	0.2436
## 9:30 AM	63	0.2436
## 7:50 AM	62	0.2398
## 12:10 PM	61	0.2359
## 7:30 PM	60	0.2320
## 11:45 AM	59	0.2282
## 2:15 PM	59	0.2282
## 8:20 AM	59	0.2282
## 8:25 AM	59	0.2282
## 12:20 PM	56	0.2166
## 4:05 PM	56	0.2166
## 4:55 PM	56	0.2166
## 9:45 AM	56	0.2166
## 12:45 PM	55	0.2127
## 5:07 PM	55	0.2127
## 8:55 AM	55	0.2127
## 4:46 PM	54	0.2088
## 7:20 AM	54	0.2088
## 5:05 PM	53	0.2050
## 5:42 PM	53	0.2050
## 5:55 PM	53	0.2050
## 2:35 PM	52	0.2011
## 5:10 PM	52	0.2011
## 5:40 PM	52	0.2011
## 3:25 PM	51	0.1972
## 3:55 PM	51	0.1972
## 5:50 PM	51	0.1972
## 6:15 PM	51	0.1972
## 6:45 PM	51	0.1972
## 4:35 PM	50	0.1934
## 5:23 PM	49	0.1895
## 7:00 AM	49	0.1895
## 1:50 PM	48	0.1856
## 2:40 PM	48	0.1856
## 3:21 PM	48	0.1856
## 9:10 AM	48	0.1856
## 2:55 PM	47	0.1818
## 3:35 PM	47	0.1818
## 4:38 PM	47	0.1818
## 5:35 PM	47	0.1818
## 5:43 PM	47	0.1818
## 9:00 PM	47	0.1818
## 12:40 PM	46	0.1779
## 4:16 PM	46	0.1779

```

## 5:25 PM           46   0.1779
## 1:15 PM           45   0.1740
## 10:35 AM          45   0.1740
## 5:37 PM           45   0.1740
## 8:30 PM           45   0.1740
## 8:50 AM           45   0.1740
## 11:05 AM          44   0.1702
## (Other)          18764 72.5656
##
## -----
## CHECKING FEATURE:ACCIDENT_TIME
## DATA:All 2017-Only 2017-Homologated.csv...
##
## Number of Blank Values:0
##
## Summary as Factor Feature:
##
## Number of Features: 100
##
## TOP 100 FEATURES OF ACCIDENT_TIME
##
## Feature Value      Counter   Percentage
## -----
## 12:00 AM          482     1.8161
## 4:30 PM            200     0.7536
## 5:00 PM            193     0.7272
## 4:00 PM            181     0.6820
## 3:30 PM            179     0.6744
## 5:30 PM            151     0.5689
## 3:00 PM            142     0.5350
## 8:30 AM            115     0.4333
## 2:30 PM            114     0.4295
## 4:15 PM            108     0.4069
## 6:00 PM            108     0.4069
## 9:00 AM            103     0.3881
## 1:30 PM            102     0.3843
## 5:15 PM            102     0.3843
## 6:30 PM            102     0.3843
## 1:00 PM            101     0.3805
## 12:00 PM           100     0.3768
## 4:20 PM             95     0.3579
## 9:30 AM             93     0.3504
## 5:20 PM             91     0.3429
## 4:45 PM             89     0.3353
## 4:40 PM             88     0.3316
## 3:15 PM             87     0.3278
## 3:50 PM             84     0.3165
## 2:00 PM             83     0.3127

```

## 5:10 PM	81	0.3052
## 8:00 AM	81	0.3052
## 3:45 PM	79	0.2977
## 7:00 AM	79	0.2977
## 7:30 AM	79	0.2977
## 12:30 PM	78	0.2939
## 4:10 PM	78	0.2939
## 7:30 PM	77	0.2901
## 3:20 PM	76	0.2863
## 12:45 PM	75	0.2826
## 10:00 AM	74	0.2788
## 6:15 PM	73	0.2750
## 4:25 PM	72	0.2713
## 4:50 PM	72	0.2713
## 7:45 AM	72	0.2713
## 10:30 AM	71	0.2675
## 7:50 AM	65	0.2449
## 2:45 PM	63	0.2374
## 5:05 PM	63	0.2374
## 8:45 AM	63	0.2374
## 1:45 PM	62	0.2336
## 3:40 PM	62	0.2336
## 3:55 PM	61	0.2298
## 5:35 PM	61	0.2298
## 5:45 PM	61	0.2298
## 7:00 PM	61	0.2298
## 8:00 PM	61	0.2298
## 1:15 PM	60	0.2261
## 11:00 AM	60	0.2261
## 8:50 AM	60	0.2261
## 12:15 PM	59	0.2223
## 9:15 AM	59	0.2223
## 11:30 AM	58	0.2185
## 4:35 PM	57	0.2148
## 9:50 AM	56	0.2110
## 5:40 PM	55	0.2072
## 12:05 PM	54	0.2035
## 8:20 AM	54	0.2035
## 2:20 PM	53	0.1997
## 3:35 PM	53	0.1997
## 6:10 PM	53	0.1997
## 8:15 AM	53	0.1997
## 9:00 PM	53	0.1997
## 10:45 AM	51	0.1922
## 3:10 PM	51	0.1922
## 3:25 PM	50	0.1884
## 3:56 PM	50	0.1884
## 7:40 AM	50	0.1884

```

## 4:47 PM           48   0.1809
## 7:20 PM           48   0.1809
## 11:45 AM          47   0.1771
## 11:50 AM          47   0.1771
## 12:50 PM          47   0.1771
## 2:35 PM           47   0.1771
## 5:21 PM           47   0.1771
## 6:45 AM           47   0.1771
## 9:20 AM           47   0.1771
## 1:20 PM           46   0.1733
## 4:27 PM           46   0.1733
## 5:25 PM           46   0.1733
## 5:33 PM           46   0.1733
## 8:40 AM           46   0.1733
## 9:30 PM           46   0.1733
## 10:15 AM          45   0.1695
## 11:20 AM          45   0.1695
## 4:05 PM           45   0.1695
## 4:55 PM           45   0.1695
## 4:58 PM           45   0.1695
## 6:20 PM           45   0.1695
## 7:55 AM           45   0.1695
## 12:08 PM          44   0.1658
## 2:40 PM           44   0.1658
## 2:49 PM           44   0.1658
## 2:50 PM           44   0.1658
## (Other)          19007 71.6137
##
## =====
## FINAL INFO CHECKING FEATURE:ACCIDENT_TIME
## ALL DATA...
## =====
##
## Number of Blank Values:0
##
## Summary per Data File:
## All 2004-Only 2004-Homologated.csv All 2005-Only 2005-Homologated.csv      26605
##                                     25669
## All 2006-Only 2006-Homologated.csv All 2007-Only 2007-Homologated.csv      27755
##                                     26073
## All 2008-Only 2008-Homologated.csv All 2009-Only 2009-Homologated.csv      28453
##                                     28502
## All 2010-Only 2010-Homologated.csv All 2011-Only 2011-Homologated.csv      27900
##                                     27483
## All 2012-Only 2012-Homologated.csv All 2013-Only 2013-Homologated.csv      27971
##                                     26530
## All 2014-Only 2014-Homologated.csv All 2015-Only 2015-Homologated.csv      27867
##                                     27292

```

```
## All 2016-Only 2016-Homologated.csv All 2017-Only 2017-Homologated.csv
##                                     25858                               26541
##
##                                     ##
## Summary as Factor Feature:
## Number of Features: 100[1] "TOP 100 FEATURES COUNTERS OF:ACCIDENT_TIME"
```

Feature Value	Counter	Percentage
5:00 PM	3418	0.8983
4:00 PM	3361	0.8833
5:30 PM	3187	0.8376
4:30 PM	3172	0.8336
12:00 AM	2983	0.7840
3:30 PM	2907	0.7640
3:00 PM	2654	0.6975
6:00 PM	2594	0.6817
8:30 AM	2385	0.6268
9:00 AM	2254	0.5924
2:00 PM	2240	0.5887
1:00 PM	2226	0.5850
8:00 AM	2224	0.5845
12:00 PM	2079	0.5464
2:30 PM	2038	0.5356
12:30 PM	1980	0.5204
4:15 PM	1940	0.5099
1:30 PM	1933	0.5080
6:30 PM	1921	0.5049
5:15 PM	1910	0.5020
4:45 PM	1869	0.4912
7:00 PM	1781	0.4681
3:45 PM	1765	0.4639
11:00 AM	1738	0.4568
11:30 AM	1737	0.4565
10:00 AM	1658	0.4357
5:20 PM	1624	0.4268
5:45 PM	1569	0.4124
7:30 AM	1553	0.4081

3:15 PM	1548	0.4068
4:20 PM	1511	0.3971
9:30 AM	1495	0.3929
8:45 AM	1451	0.3813
10:30 AM	1437	0.3777
4:50 PM	1413	0.3714
8:15 AM	1385	0.3640
5:10 PM	1341	0.3524
4:40 PM	1337	0.3514
2:45 PM	1331	0.3498
3:50 PM	1323	0.3477
4:10 PM	1299	0.3414
3:20 PM	1280	0.3364
3:40 PM	1252	0.3290
12:15 PM	1239	0.3256
8:00 PM	1228	0.3227
12:45 PM	1227	0.3225
8:20 AM	1203	0.3162
7:30 PM	1199	0.3151
8:50 AM	1186	0.3117
8:40 AM	1177	0.3093
7:45 AM	1172	0.3080
5:40 PM	1166	0.3064
7:00 AM	1152	0.3028
7:50 AM	1126	0.2959
3:10 PM	1106	0.2907
2:15 PM	1097	0.2883
6:15 PM	1081	0.2841
5:50 PM	1078	0.2833
9:15 AM	1058	0.2781
9:00 PM	1024	0.2691
1:15 PM	1021	0.2683
2:50 PM	998	0.2623
8:10 AM	989	0.2599
1:45 PM	985	0.2589

6:45 PM	942	0.2476
6:20 PM	939	0.2468
2:40 PM	938	0.2465
12:20 PM	935	0.2457
9:30 PM	929	0.2442
11:45 AM	921	0.2421
9:45 AM	913	0.2399
12:50 PM	906	0.2381
5:25 PM	877	0.2305
5:05 PM	874	0.2297
6:10 PM	872	0.2292
4:25 PM	871	0.2289
10:00 PM	860	0.2260
4:35 PM	851	0.2237
8:30 PM	851	0.2237
1:20 PM	849	0.2231
2:20 PM	839	0.2205
5:35 PM	839	0.2205
12:10 PM	837	0.2200
10:45 AM	831	0.2184
4:05 PM	830	0.2181
11:15 AM	828	0.2176
10:15 AM	823	0.2163
11:50 AM	815	0.2142
7:40 AM	814	0.2139
6:45 AM	808	0.2124
12:40 PM	798	0.2097
8:55 AM	791	0.2079
4:55 PM	786	0.2066
9:10 AM	783	0.2058
7:15 AM	778	0.2045
3:55 PM	777	0.2042
6:30 AM	776	0.2039
1:50 PM	775	0.2037
3:35 PM	771	0.2026

(Other) 243257 63.9310

34.1 ACCIDENT_TIME = "" (Blank)

```
##  
## =====  
## CHECKING FEATURE AND VALUE (ACCIDENT_TIME=)  
## [1] "No data Found"
```

DATASET FILE COUNTER OF (ACCIDENT_TIME=) Percentage -----

Conclusion

As can be seen in this document, after applying the *Homologation Transformations* there still some features that includes special values like: blanks, zero and negative; is necessary to create a strategy to handle that. In the document “Ottawa Collision Data Report: Clean Transformations” this strategy will be defined.