

# Package ‘RcmdrPlugin.GWRM’

November 8, 2017

**Type** Package

**Title** R Commander Plug-in for Fitting Generalized Waring Regression Models

**Version** 1.0.2

**Date** 2017-11-05

**Maintainer** Silverio Vilchez-Lopez <silverio.vilchez@gmail.com>

**Depends** R (>= 3.0.0), GWRM (>= 2.1.0.1), RcmdrMisc (>= 1.0-2)

**Imports** Rcmdr (>= 2.0-0)

**Description** Provides an Rcmdr ``plug-in'' based on the GWRM package.

**License** GPL (>= 2)

**LazyData** true

**NeedsCompilation** no

**Author** Silverio Vilchez-Lopez [aut, cre],  
Antonio Jose Saez-Castillo [aut],  
Maria Jose Olmo-Jimenez [aut]

**Repository** CRAN

**RoxygenNote** 6.0.1

**Date/Publication** 2017-11-08 22:39:26 UTC

## R topics documented:

generalizedWaringModel . . . . .	2
RcmdrPlugin.GWRM . . . . .	2
RcmdrPlugin.Utility . . . . .	3

<b>Index</b>	<b>5</b>
--------------	----------

---

`generalizedWaringModel`*Rcmdr Generalized Waring Regression Model Dialog*

---

**Description**

This dialog is used to specify a generalized Waring regression model to be fit by the `gw` function

**Usage**

```
generalizedWaringModel()
```

**Details**

It shares a common general structure with that of the Linear Model (see [linearModel](#)). Therefore, the use of this dialog box is similar to the linear model except the box labelled `Model` parameters, in which a fixed value for the parameter `k` can be specified; if it is not supplied, the `k` estimate is computed.

**Value**

It returns a new GW model in the model list.

**Examples**

```
library(RcmdrPlugin.GWRM)
```

---

`RcmdrPlugin.GWRM`*GWRM Plug-In for R Commander*

---

**Description**

This package is an R Commander "plug-in" based on the GWRM package (see [GWRM](#)). It provides a GUI for fitting a generalized Waring regression model to a dataset, together with other common regression functions such as Akaike and Bayesian information criteria, stepwise model selection or add observation statistics to data. Moreover, it allows for computing the partition of the variance for the selected GW model and carrying out a graphical diagnosis by a simulated envelope of the residuals.

**Details**

Package: RcmdrPlugin.GWRM

Type: Package

Title: R Commander Plug-In for Fitting Generalized Waring Regression Models

Version: 1.0.1

Date: 2016-02-18

Depends: R (>= 3.0.0), GWRM (>= 2.1.0.1), RcmdrMisc (>= 1.0-2)

License: GPL (>= 2)

**Note**

Some functions cannot run adequately if there are missing data.

**Author(s)**

Silverio Vilchez-Lopez, Antonio Jose Saez-Castillo and Maria Jose Olmo-Jimenez. Maintainer: Silverio Vilchez-Lopez

**See Also**

[Rcmdr](#)

---

RcmdrPlugin.Utility    *GWRM Plug-In Utility Functions*

---

**Description**

GWRM Plug-In Utility Functions

**Usage**

```
extractNewData(nrows, colNames)
```

```
listGeneralizedWaringModels(envir = .GlobalEnv, ...)
```

```
activeModelGW(envir = .GlobalEnv, ...)
```

```
showTable(...)
```

```
gwrMPartVar()
```

```
gwrMResiduals()
```

```
gwrMAddObservationStatistics()
```

**Arguments**

nrows	the new data number rows
colNames	the names of the covariates
envir	the environments inside search.
...	further arguments.

# Index

`activeModelGW (RcmdrPlugin.Utility)`, 3  
`extractNewData (RcmdrPlugin.Utility)`, 3  
`generalizedWaringModel`, 2  
  GWRM, 2  
`gwrAddObservationStatistics`  
  (RcmdrPlugin.Utility), 3  
`gwrPartVar (RcmdrPlugin.Utility)`, 3  
`gwrResiduals (RcmdrPlugin.Utility)`, 3  
`linearModel`, 2  
`listGeneralizedWaringModels`  
  (RcmdrPlugin.Utility), 3  
`Rcmdr`, 3  
`RcmdrPlugin.GWRM`, 2  
`RcmdrPlugin.GWRM-package`  
  (RcmdrPlugin.GWRM), 2  
`RcmdrPlugin.Utility`, 3  
`showTable (RcmdrPlugin.Utility)`, 3