

# Package ‘MSMwRA’

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**Type** Package

**Title** Multivariate Statistical Methods with R Applications

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**Description** Data sets in the book entitled “Multivariate Statistical Methods with R Applications”, H.Bulut (2018).

The book was published in Turkish and the original name of this book will be “R Uygulamaları ile Çok Degiskenli Istatistiksel Yontemler”.

**LazyData** true

**License** GPL-3

**RoxygenNote** 7.1.1

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Agriculture

*Agriculture*

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### Description

The data set is used in Sample 8.3. The data set consists of 4 variables and 9 observations. This data is imaginary. Moreover the first three variables of this data are used in Sample 8.2.

### Usage

Agriculture

### Format

A data frame with 9 rows and 4 variables. The variables are as follows:

**Y** The yield values (Dependent variables values)

**X1** The fertilizer values (The first independent variables values)

**X2** The irrigation values (The second independent variables values)

**D** The experience values (The third independent values)

### Source

The data set is used in the book entitled *Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler)*, H.Bulut (2018).

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ecodata

*Economic Indicators of Cities in Turkey*

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### Description

The data set is used in Sample 14.2 and given in Table 14.2. The data set consists of 4 variables and 81 observations. This data contains some economic indicators of cities in Turkey.

### Usage

ecodata

### Format

A data frame with 81 rows and 4 variables. The variables are as follows:

**Cities** The names of cities in Turkey

**X1** The employment rate in cities

**X2** The unemployment rate in cities

**X3** The satisfaction rate from job

**Source**

The data set is taken from Turkish Statistical Institute (TUIK) and used in the book entitled Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler), H.Bulut (2018).

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happiness

*The Happiness Data of OECD Countries*

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**Description**

The data set is given in Table 4.1. The data set gives happiness scores of 155 countries. The data consists of 3 variables and 155 observations.

**Usage**

happiness

**Format**

A data frame with 155 rows and 3 variables. The variables are as follows:

**COUNTRY** The name of countries

**Happiness** The happiness scores of countries

**Class** The class value of countries according to happiness scores

**Source**

The data set is taken World Happiness Report-2017 by OECD and used in the book entitled Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler), H.Bulut (2018).

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PISA

*The PISA 2012 Results of OECD Countries*

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**Description**

The data set is used in Sample 10.2 and given in Table 10.3. The data set consists of 3 variables and 34 observations. This data contains PISA 2012 results published by OECD.

**Usage**

PISA

**Format**

A data frame with 34 rows and 4 variables. The variables are as follows:

**COUNTRY** The names of countries (in Turkish)

**Reading** The reading scores of countries in PISA 2012

**Science** The science scores of countries in PISA 2012

**Mathematics** The mathematics scores of countries in PISA 2012

**Source**

The data set is taken from PISA 2012 Report published by OECD and used in the book entitled Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler), H.Bulut (2018).

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SER

*Sex, Education and Reading Data*

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**Description**

The data set is used in Sample 15.2 and given in Table 15.1. The data set consists of 3 variables and 21 observations. This data is imaginary.

**Usage**

SER

**Format**

A data frame with 21 rows and 3 variables. The variables are as follows:

**Sex** The sex of observations

**Education** The education level of observations

**Reading** The reading case of observations

**Source**

The data set is used in the book entitled Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler), H.Bulut (2018).

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Sim1

*Simulated Data 1*

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**Description**

The data set is used in Sample 3.1. The data set consists of 3 variables and 10 observations. This data is imaginary.

**Usage**

Sim1

**Format**

A data frame with 10 rows and 3 variables.

**Source**

The data set is used in the book entitled Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler), H.Bulut (2018).

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Sim2

*Simulated Data 2*

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**Description**

The data set is used in Sample 3.4. The data set consists of 2 variables and 10 observations. This data is simulated from multivariate normal distribution with mean vector (5,10) and covariance matrix [9,10,10,25].

**Usage**

Sim2

**Format**

A data frame with 10 rows and 2 variables.

**Source**

The data set is used in the book entitled Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler), H.Bulut (2018).

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ssl

*Security and Social Life Indicators of Cities in Turkey*

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### **Description**

The data set is used in Sample 13.2 and given in Table 13.1. The data set consists of 9 variables and 81 observations. This data contains security and social life indicators of cities in Turkey.

### **Usage**

ssl

### **Format**

A data frame with 81 rows and 9 variables. The variables are as follows:

**Cities** The names of cities in Turkey

**X1** The murder rate in cities

**X2** The number of traffic accidents in cities

**X3** The rate of people who feel safe themselves when walking alone at night

**X4** The rate of satisfaction from public security services

**Y1** Cinema and theater audience

**Y2** Shopping center area per thousand people

**Y3** Satisfaction with social relations

**Y4** Satisfaction with social life

### **Source**

The data set is taken from Turkish Statistical Institute (TUIK) and used in the book entitled *Multivariate Statistical Methods with R Applications (R Uygulamaları ile Çok Değişkenli İstatistiksel Yöntemler)*, H.Bulut (2018).

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