

## **BDS VARIABLE CODEBOOK (2014/15/16 Releases)**

<b>Variable name</b>	<b>Type</b>	<b>Length</b>
year2	num	8
sic1	char	2
size	char	15
fsize	char	15
age4	char	16
fage4	char	16
firms	num	8
estabs	num	8
emp	num	8
denom	num	8
estabs_entry	num	8
estabs_entry_rate	num	8
estabs_exit	num	8
estabs_exit_rate	num	8
job_creation	num	8
job_creation_births	num	8
job_creation_continuers	num	8
job_creation_rate_births	num	8
Job_creation_rate	num	8
job_destruction_deaths	num	8
job_destruction_continuers	num	8
job_destruction_rate_deaths	num	8
job_destruction_rate	num	8
net_job_creation	num	8
net_job_creation_rate	num	8
reallocation_rate	num	8
d_flag	num	8

firmdeath_firms	num	8
firmdeath_estabs	num	8
firmdeath_emp	num	8
metro	char	1
msa	num	8

## year2

Values: 1975-2016

Description: record year

## sic1

Values: 07,10,15,20,40,50,52,60,70

Description: Broad industry categories.  
07 - agricultural services, forestry, fishing  
10 - mining  
15 - construction  
20 - manufacturing  
40 - transportation and public utilities  
50 - wholesale trade  
52 - retail trade  
60 - finance, insurance, real estate (FIRE)  
70 - services

## size

Values: a) 1 to 4, b) 5 to 9, c) 10 to 19, d) 20 to 49, e) 50 to 99, f) 100 to 249, g) 250 to 499, h) 500 to 999, i) 1000+

Description: Establishment size. A categorical variable defined as the average of the establishment's year  $t-1$  and year  $t$  employment

## fsize

Values: a) 1 to 4, b) 5 to 9, c) 10 to 19, d) 20 to 49, e) 50 to 99, f) 100 to 249, g) 250 to 499, h) 500 to 999, i) 1000 to 2499, j) 2500 to 4999, k) 5000 to 9999, l) 10000+

Description: Firm size. A categorical variable defined as the average of the firm's year  $t-1$  and year  $t$  employment.

## age4

Values: Left Censored, 0, 1, 2, 3, 4, 5, 6-10, 11-15, 16-20, 21-25, 26+

Description: This is an employment based measure of establishment age. An estab born before 1977 is of unknown age and is assigned an age of "Left Censored". One born during or after 1977 is assigned an age of zero in the first year it reports positive employment, and ages each year thereafter regardless of employment.

#### **fage4**

Values: Left Censored, 0, 1, 2, 3, 4, 5, 6-10, 11-15, 16-20, 21-25, 26+

Description: This is an employment based measure of firm age. A firm born before 1977 is of unknown age and is assigned a firm age of "Left Censored". A firm born during or after 1977 is assigned a firm age as follows:

1. One or more pre-existing establishments with prior employment - the firm will be born with a non-zero age based on the earliest year any establishment reported employment.
2. One or more pre-existing establishments with no prior employment in any establishment - the firm is born with no firm age. The firm will be age zero in the first year any establishment reports employment.
3. One or more newly founded establishments with employment - the firm will be born with age of zero.
4. One or more newly founded establishments with no employment in any Establishment - the firm will be born with no firm age. The firm will be age zero in the first year any establishment reports employment.

#### **firms**

Values:

Description: A simple count of the number of firms in the cell. For state level tables, a firm with establishments in multiple states be counted multiple times, once in each state, irrespective of the portion of the firm residing in that state.

#### **estabs**

Values:

Description: A simple count of the number of establishments in the cell.

#### **emp**

Values:

Description: total sum of March 12 employment in the cell.

#### **denom**

Values:

Description: Davis-Haltiwanger-Schuh (DHS) denominator. For time t, denom is the average of employment for times t and t-1. This variable attempts to prevent transitory shocks from creating a bias to the relationship between net growth from t-1 to t and size.

#### **estabs\_entry**

Values:

Description: A count of establishments born within the cell during the last 12 months.

#### **estabs\_entry\_rate**

Values:

Description:  $100 * (\text{estabs\_entry at time } t \text{ divided by the average of estabs at } t \text{ and } t-1).$

**estabs\_exit**

Values:

Description: A count of establishments exiting from within the cell during the last 12 months.

**estabs\_exit\_rate**

Values:

Description:  $100 * (\text{estabs\_exit at time } t \text{ divided by the average of estabs at } t \text{ and } t-1).$ **job\_creation**

Values:

Description: Count of all jobs created within the cell over the last 12 months.

**job\_creation\_births**

Values:

Description: Count of jobs created within the cell by establishment births over the last 12 months.

**job\_creation\_continuers**

Values:

Description: Count of jobs created in the cell by continuing establishments over the last 12 months.

**job\_creation\_rate\_births**

Values:

Description:  $100 * (\text{job\_creation\_births} / \text{denom})$ **job\_creation\_rate**

Values:

Description:  $100 * (\text{job\_creation} / \text{denom})$ **job\_destruction**

Values:

Description: Count of all jobs destroyed within the cell over the last 12 months.

**job\_destruction\_deaths**

Values:

Description: Count of jobs destroyed by establishment exit over the last 12 months.

**job\_destruction\_continuers**

Values:

Description: Count of jobs destroyed at continuing establishments over the last 12 months.

**job\_destruction\_rate\_deaths**

Values:

Description:  $100 * (\text{job\_destruction\_deaths} / \text{denom})$

**job\_destruction\_rate**

Values:

Description:  $100 * (\text{job\_destruction} \text{ divided } / \text{denom})$ **net\_job\_creation\_rate**

Values:

Description:  $\text{job\_creation\_rate} - \text{job\_destruction\_rate}$ **reallocation\_rate**

Values:

Description:  $\text{job\_creation\_rate} + \text{job\_destruction\_rate} - \text{abs}(\text{net\_job\_creation\_rate})$ **d\_flag**

Values: 0,1

Description: Disclosure flag. A value of 1 indicates that values have been suppressed to prevent disclosure of sensitive data.

**firmdeath\_firms**

Values:

Description: Count of firms that have exited in their entirety during the period. All establishments owned by the firm must exit to be considered a firm death. This definition of firm death is narrow and strictly applied, so that a firm with 100 establishments would not qualify as a firm death if 99 exited while 1 continued under different ownership.

**firmdeath\_estabs**

Values:

Description: Count of establishments associated with firm deaths.

**firmdeath\_emp**

Values:

Description: Count of employment associated with firm deaths.

**metro**

Values: M,N

Description: Establishments located in Metropolitan Statistical Areas are in cells designated with “M”, while those in non-metropolitan areas are aggregated into cells designated with “N”. Rhode Island and Washington, DC are entirely metropolitan.

**msa** [Not available in 2015 or 2016]

Values:

Description: Numeric code for metropolitan statistical areas as established by Office of Management and Budget (OMB), version 2009.