

## The Second Longitudinal Study of Aging (LSOA II) Linked Mortality File Restricted-use File Layout

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>PUBLICID</i>	character	LSOA II Sample Sequence Number – <a href="#">See Detailed Notes</a>
<i>ELIGSTAT</i>	numeric	Eligibility Status for Mortality Follow-up – <a href="#">See Detailed Notes</a> 1            Eligible 3            Ineligible
<b>Death Information</b>		
<i>MORTSTAT</i>	numeric	Final Mortality Status – <a href="#">See Detailed Notes</a> 0            Assumed alive 1            Assumed deceased Blank       Ineligible
<i>MORTSRCE_DCL</i>	numeric	Mortality Source: Data Collection – <a href="#">See Detailed Notes</a> 0            No 1            Yes Blank       Ineligible or assumed alive
<i>MORTSRCE_NDI</i>	numeric	Mortality Source: NDI Match – <a href="#">See Detailed Notes</a> 0            No 1            Yes Blank       Ineligible or assumed alive
<i>MORTSRCE_SSA</i>	numeric	Mortality Source: SSA Information – <a href="#">See Detailed Notes</a> 0            No 1            Yes Blank       Ineligible or assumed alive
<i>MORTSRCE_CMS</i>	numeric	Mortality Source: CMS Information – <a href="#">See Detailed Notes</a> 0            No 1            Yes Blank       Ineligible or assumed alive

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>																												
<i>DODMONTH</i>	numeric	Month of Death <table style="margin-left: 20px;"> <tr><td>01</td><td>January</td></tr> <tr><td>02</td><td>February</td></tr> <tr><td>03</td><td>March</td></tr> <tr><td>04</td><td>April</td></tr> <tr><td>05</td><td>May</td></tr> <tr><td>06</td><td>June</td></tr> <tr><td>07</td><td>July</td></tr> <tr><td>08</td><td>August</td></tr> <tr><td>09</td><td>September</td></tr> <tr><td>10</td><td>October</td></tr> <tr><td>11</td><td>November</td></tr> <tr><td>12</td><td>December</td></tr> <tr><td>99</td><td>Unavailable</td></tr> <tr><td>Blank</td><td>Ineligible or assumed alive</td></tr> </table>	01	January	02	February	03	March	04	April	05	May	06	June	07	July	08	August	09	September	10	October	11	November	12	December	99	Unavailable	Blank	Ineligible or assumed alive
01	January																													
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<i>DODDAY</i>	numeric	Day of Death <table style="margin-left: 20px;"> <tr><td>01 - 31</td><td>Day</td></tr> <tr><td>99</td><td>Unavailable</td></tr> <tr><td>Blank</td><td>Ineligible or assumed alive</td></tr> </table>	01 - 31	Day	99	Unavailable	Blank	Ineligible or assumed alive																						
01 - 31	Day																													
99	Unavailable																													
Blank	Ineligible or assumed alive																													
<i>DODYEAR</i>	numeric	Year of Death <table style="margin-left: 20px;"> <tr><td>1994 - 2006</td><td>Year</td></tr> <tr><td>9999</td><td>Unavailable</td></tr> <tr><td>Blank</td><td>Ineligible or assumed alive</td></tr> </table>	1994 - 2006	Year	9999	Unavailable	Blank	Ineligible or assumed alive																						
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<i>AGEDEATH</i>	numeric	Age at Death – <a href="#">See Detailed Notes</a> <table style="margin-left: 20px;"> <tr><td>70 -109</td><td>Age in years</td></tr> <tr><td>Blank</td><td>Ineligible, assumed alive, or unavailable</td></tr> </table>	70 -109	Age in years	Blank	Ineligible, assumed alive, or unavailable																								
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Blank	Ineligible, assumed alive, or unavailable																													
<i>AGEPRALV</i>	numeric	Age When Last Presumed Alive (as of December 31, 2006) <a href="#">See Detailed Notes</a> <table style="margin-left: 20px;"> <tr><td>81- 105</td><td>Age in years</td></tr> <tr><td>Blank</td><td>Ineligible or assumed deceased</td></tr> </table>	81- 105	Age in years	Blank	Ineligible or assumed deceased																								
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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<b>Death Certificate Data</b>		
<i>CAUSEAVL</i>	numeric	Cause of Death Data Available – <a href="#">See Detailed Notes</a>
		0            No
		1            Yes
		Blank        Ineligible or assumed alive
<i>ICD_9REV</i>	char	ICD-9 Underlying Cause of Death (1994-1998) <a href="#">See Underlying and Multiple Causes</a>
		001 – 999    Code range
		Blank        Cause of death data not available or death after 1998
<i>UCOD_282</i>	char	ICD-9 (1994-1998) Underlying Cause of Death 282 Groups Recode <a href="#">See Underlying and Multiple Causes</a>
		00300 – 35800 Code range
		Blank        Cause of death data not available or death after 1998
<i>UCOD_72</i>	char	ICD-9 (1994-1998) Underlying Cause of Death 72 Groups Recode <a href="#">See Underlying and Multiple Causes</a>
		010 – 840    Code range
		Blank        Cause of death data not available or death after 1998
<i>UCOD_34</i>	char	ICD-9 (1994-1998) Underlying Cause of Death 34 Groups Recode <a href="#">See Underlying and Multiple Causes</a>
		010 – 370    Code range
		Blank        Cause of death data not available or death after 1998
<i>ICD_10REV</i>	char	ICD-10 Underlying Cause of Death (1999-2006) <a href="#">See Underlying and Multiple Causes</a>
		A00 – Y89.9 Code range
		Blank        Cause of death data not available or death before 1999

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>UCOD_358</i>	char	ICD-10 (1999-2006) Underlying Cause of Death 358 Groups Recode <a href="#">See Underlying and Multiple Causes</a>
		001 – 456      Code range Blank          Cause of death data not available or death before 1999
<i>UCOD_39</i>	char	ICD-10 (1999-2006) Underlying Cause of Death 39 Groups Recode <a href="#">See Underlying and Multiple Causes</a>
		001 – 042      Code range Blank          Cause of death data not available or death before 1999
<i>UCOD_113</i>	char	ICD-10 (all years) Underlying Cause of Death 113 Groups Recode <a href="#">See Underlying and Multiple Causes</a>
		001 – 135      Code range Blank          Cause of death data not available

### Multiple Cause of Death Conditions

<i>NUMENTAX</i>	numeric	Number of Entity Axis Conditions <a href="#">See Underlying and Multiple Causes</a>
		00 – 20          Code range Blank          Cause of death code not available
<i>COND_1</i>	char	Entity Axis 1 <sup>st</sup> Condition
<i>COND_2</i>	char	Entity Axis 2 <sup>nd</sup> Condition
<i>COND_3</i>	char	Entity Axis 3 <sup>rd</sup> Condition
<i>COND_4</i>	char	Entity Axis 4 <sup>th</sup> Condition
<i>COND_5</i>	char	Entity Axis 5 <sup>th</sup> Condition
<i>COND_6</i>	char	Entity Axis 6 <sup>th</sup> Condition
<i>COND_7</i>	char	Entity Axis 7 <sup>th</sup> Condition
<i>COND_8</i>	char	Entity Axis 8 <sup>th</sup> Condition
<i>COND_9</i>	char	Entity Axis 9 <sup>th</sup> Condition
<i>COND_10</i>	char	Entity Axis 10 <sup>th</sup> Condition
<i>COND_11</i>	char	Entity Axis 11 <sup>th</sup> Condition
<i>COND_12</i>	char	Entity Axis 12 <sup>th</sup> Condition
<i>COND_13</i>	char	Entity Axis 13 <sup>th</sup> Condition
<i>COND_14</i>	char	Entity Axis 14 <sup>th</sup> Condition
<i>COND_15</i>	char	Entity Axis 15 <sup>th</sup> Condition

## The Second Longitudinal Study of Aging (LSOA II) Linked Mortality File Restricted-use File Layout

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>COND_16</i>	char	Entity Axis 16 <sup>th</sup> Condition
<i>COND_17</i>	char	Entity Axis 17 <sup>th</sup> Condition
<i>COND_18</i>	char	Entity Axis 18 <sup>th</sup> Condition
<i>COND_19</i>	char	Entity Axis 19 <sup>th</sup> Condition
<i>COND_20</i>	char	Entity Axis 20 <sup>th</sup> Condition
<i>NUMRAXCN</i>	numeric	Number of Record Axis Conditions <a href="#">See Underlying and Multiple Causes</a>
		00 – 20            Code range
		Blank            Cause of death code not available
<i>RCOND_1</i>	char	Record Axis 1 <sup>st</sup> Condition
<i>RCOND_2</i>	char	Record Axis 2 <sup>nd</sup> Condition
<i>RCOND_3</i>	char	Record Axis 3 <sup>rd</sup> Condition
<i>RCOND_4</i>	char	Record Axis 4 <sup>th</sup> Condition
<i>RCOND_5</i>	char	Record Axis 5 <sup>th</sup> Condition
<i>RCOND_6</i>	char	Record Axis 6 <sup>th</sup> Condition
<i>RCOND_7</i>	char	Record Axis 7 <sup>th</sup> Condition
<i>RCOND_8</i>	char	Record Axis 8 <sup>th</sup> Condition
<i>RCOND_9</i>	char	Record Axis 9 <sup>th</sup> Condition
<i>RCOND_10</i>	char	Record Axis 10 <sup>th</sup> Condition
<i>RCOND_11</i>	char	Record Axis 11 <sup>th</sup> Condition
<i>RCOND_12</i>	char	Record Axis 12 <sup>th</sup> Condition
<i>RCOND_13</i>	char	Record Axis 13 <sup>th</sup> Condition
<i>RCOND_14</i>	char	Record Axis 14 <sup>th</sup> Condition
<i>RCOND_15</i>	char	Record Axis 15 <sup>th</sup> Condition
<i>RCOND_16</i>	char	Record Axis 16 <sup>th</sup> Condition
<i>RCOND_17</i>	char	Record Axis 17 <sup>th</sup> Condition
<i>RCOND_18</i>	char	Record Axis 18 <sup>th</sup> Condition
<i>RCOND_19</i>	char	Record Axis 19 <sup>th</sup> Condition
<i>RCOND_20</i>	char	Record Axis 20 <sup>th</sup> Condition

### Survey Data

<i>DOBMONTH</i>	numeric	Month of Birth – <a href="#">See Detailed Notes</a>
		01            January
		02            February
		03            March
		04            April

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
		05      May
		06      June
		07      July
		08      August
		09      September
		10      October
		11      November
		12      December
<i>DOB</i> <i>DAY</i>	numeric	Day of Birth – <a href="#">See Detailed Notes</a>
		01 - 31      Day
<i>DOB</i> <i>YEAR</i>	numeric	Year of Birth – <a href="#">See Detailed Notes</a>
		1887 - 1925      Year
<i>INTV</i> <i>MONTH</i>	numeric	Month of SOA II Interview
		01      January
		02      February
		03      March
		04      April
		05      May
		06      June
		07      July
		08      August
		09      September
		10      October
		11      November
		12      December
<i>INTV</i> <i>DAY</i>	numeric	Day of SOA II Interview
		99      Unavailable
<i>INTV</i> <i>YEAR</i>	numeric	Year of SOA II Interview
		1994 - 1996      Year

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<u>VARIABLE</u>	<u>DATA TYPE</u>	<u>FIELD DESCRIPTION</u>
<i>AGEINTV</i>	numeric	Age at SOA II Interview - <a href="#">See Detailed Notes</a>
		70 - 99          Age in years

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### **PUBLICID** – LSOA II Public ID Construction

The data items QUARTER x PSU x WEEK x SEGMENT x HOUSEHOLD NUMBER x PERSON NUMBER identify a LSOA II participant. The following identifying items can be concatenated to create the unique person identifier. Note: The public id variable on the restricted-use LSOA II Linked Mortality File is in character format with an assigned length of 14.

<u>Item</u>	LSOA II Public- use File Location	Variable length	Description
Year (2-digit)	3-4	2	Year of interview
Quarter	5	1	Calendar quarter of interview
PSU	6-8	3	Random recode of PSU
Week	9-10	2	Week of interview within quarter
Segment	11-12	2	Segment number
Household number	13-14	2	Household number
Person number	15-16	2	Person number within household

### **ELIGSTAT** – Eligibility Status for Mortality Follow-Up

LSOA II participants are defined as ineligible for mortality linkage if they had insufficient identifying data to create a National Death Index submission record ([See Mortality Linkage Eligibility, Tables 1 and 2](#)). Please note that there are seven records where there is an indication of deceased status on the LSOA II public-use file but were ineligible for NDI linkage. On the LSOA II Linked Mortality File, these cases are indicated as ineligibles and do not have any mortality information associated with them. Analysts who want to keep these cases as deceased, based upon the survey indication of death, should note that there will be no cause of death information available.

### **MORTSTAT** – Final Mortality Status

The MORTSTAT variable is NCHS’s final determination of vital status and should be used as an outcome variable and to calculate survival. Each LSOA II participant who is eligible for mortality follow-up is assigned a vital status code (0 = assumed alive; 1 = assumed deceased).

**MORTALITY SOURCE.** NCHS has multiple sources of information to determine the final mortality status of a LSOA II survey participant. Variables indicating which source or sources were used to determine vital status are available on the linked mortality file and are described below. Any combination of these mortality sources was used to identify LSOA II decedents. In a small number of cases, there are inconsistencies in the death information obtained during a LSOA II follow-up period and the LSOA II Linked Mortality File.

## The Second Longitudinal Study of Aging (LSOA II) Linked Mortality File Restricted-use File Layout

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### *MORTSRCE\_DCL* – Mortality Source: Data Collection

Death information was obtained during the LSOA II follow-up period. Analysts should note that there are records on the LSOA II public-use file indicating deceased status but were ineligible for NDI matching. On the linked mortality file, these records are classified as ineligible, and thus have no source of mortality.

### *MORTSRCE\_NDI* - Mortality Source: NDI Match

Mortality status was ascertained through a probabilistic match to a National Death Index (NDI) record.

### *MORTSRCE\_SSA* - Mortality Source: SSA Information

Mortality status was obtained from the Social Security Administration (SSA).

### *MORTSRCE\_CMS* - Mortality Source: CMS Information

Mortality status was obtained from the Centers for Medicare and Medicaid Services (CMS).

### *AGEDEATH* – Age at Death

Misreporting or discrepancies in reported age at baseline or date of birth can result in values for age at death that may be inconsistent with baseline age. [See Analytic Guidelines](#).

### *AGEPRALV* – Age When Last Presumed Alive (age as of December 31, 2006)

Misreporting or discrepancies in reported age at baseline or date of birth can result in values for age when last presumed alive that may be inconsistent with baseline age. [See Analytic Guidelines](#).

### *CAUSEAVL* – Cause of Death Data Available

Death certificate data is available only for cases where the variable MORTSTAT=1 and MORTSRCE\_NDI = 1. Analysts should note that it is possible to have a NDI match but no cause of death data available.

## **SURVEY DATA AGE AND DATE OF BIRTH VARIABLES.**

Age at interview (AGEINTV) has been provided on the linked mortality files for your convenience. Age has not been top-coded.

Complete date of birth information has been provided on the linked mortality files for your convenience. Year of birth has not been bottom-coded. Where date of birth information is

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missing on the LSOA II public-use files, it has been imputed with month = 06, day = 15, and YEAR = SOA II survey year minus the age at interview. In some cases, the date of birth information provided on the LSOA II public-use files is inconsistent with date of interview information and there has been no attempt to reconcile this information.