

Estimate of weekly deaths

Methodology

Madrid, May 2024

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1 Objective

Weekly death estimates are intended to provide quick estimates of the number of deaths that occur each week from the entries recorded in the computerized Civil Registries, as well as their comparison with historical death data since the year 2000. This allows the data to be interpreted with a necessary historical perspective, given the variability of deaths over time. Three types of data will thus coexist in the project:

- Definitive data (deaths from 2000 to 2022).
- Estimated data (completing the series up to the present).

2 Background

Death Statistics forms part of the group of Vital Statistics, which has a long tradition in Spain. This is an annual operation, although provisional data has also been published on a semi-annual basis for several years.

The publication schedule is conditioned by the circuit through which the primary data is produced. Death Statistics are based on the joint Medical Death Certificate/Statistical Death Bulletin (CMD / BED). One part is completed by the doctor certifying the death, and another by family members or the funeral home. This document is delivered to the corresponding Civil Registry, which also fills in certain registration data.

Civil registries produce monthly lots, and at the beginning of month m+1 send the INE all the CMD/BED received for deaths that occurred in month m to the corresponding provincial INE delegation. These paper certificates or bulletins are scanned in the INE delegations throughout month m+1, so that at the end of month m+1 or the beginning of the month m+2, the scanned information for deaths in month m will be available.

In practice, not all civil registries send month m deaths at the beginning of month m+1. Rather, it is generally necessary to wait two more months for the receipt of overdue bulletins to be completed. In some cases, it may even be necessary to make a complaint.

Deaths with judicial intervention must also be considered. These also generally arrive with more delay than the rest.

In short, in the best of cases it is necessary to wait for the first of month m+4 to have solid information regarding month m, and this information will always be provisional. Definitive consolidated death data for year t is not available until December of year t+1. The last definitive data published is thus that of 2020.

Under normal circumstances, it would be necessary to wait until the beginning of July to have a clear picture of the increase in deaths caused by the Covid-19 outbreak in Spain, which occurred in March 2020.

Eurostat began to request that countries voluntarily send estimates or results on the total number of deaths, taking the week as the observation unit to make them more comparable. The INE joined the initiative and in June 2020 began to send this data to Eurostat, along with publishing this new statistic under the category of experimental

statistics and under the name "Estimation of the number of weekly deaths during the Covid-19 outbreak".

In reality, having quick, up-to-date deaths figures was a prior aspiration of the INE and users, which was always postponed because it was subject to limitations in the availability of the original data. Deaths are not usually news but when they are (heat waves, flu or other seasonal phenomena) death statistics were not able to offer figures until much later.

Almost two years after the start of the Estimation of the number of weekly deaths (EDeS) experimental statistics, we can verify that the method devised and the sources on which it is based allow the project to continue beyond the covid-19 pandemic, thereby satisfying said demand.

The original source of the data is not the medical death certificates on which the death statistics are based, but rather entries in the civil registries. Several years ago, the Ministry of Justice launched the Inforeg application to record various registry entries, including deaths. This application has been implemented in Civil Registries and while not all civil registries use it (around 7% of deaths in Spain are still not recorded in Inforeg) it has reached a high degree of implementation and stability throughout the national territory. The EDeS statistic contemplates, therefore, a method to estimate the total number of deaths from (approximately) 93% of deaths that are recorded.

Starting in October 2021, Inforeg was gradually replaced by a new application, DICIREG, which ideally will be implemented throughout Spain within a period of about three years. Once this is achieved, all deaths will be registered, meaning it will not be necessary for EDeS to carry out this procedure to estimate the total, and the statistics will be completely based on the count of the DICIREG administrative record.

Inforeg (and its successor, DICIREG) offers the great advantage of being always up-todate: on any given day, you can see the deaths recorded the day before. While delays may at times occur, they generally do not exceed a week, meaning that with the data recorded today, the number of deaths taking place a week ago can be determined with great precision in municipalities that have computerized civil registries.

3 Type of Operation

It is a mixed operation, fundamentally based on administrative records (deaths registered by the Civil Registries) but with an added component of estimating the total number of deaths to correct for a lack of coverage and delays in recording.

The information is offered in the form of tables with retrospective series since 2000.

4 Content

4.1 POPULATION UNDER STUDY

The deaths that occurred in Spain in the period analysed.

4.2 GEOGRAPHICAL SCOPE

The data are estimated at the national level of the Autonomous Community, province and islands; that is, following the European territorial classification NUTS-3.

Under-registration coefficients are calculated and applied according to the province of registration.

Until May 2024, the estimated data were published according to province of registration. However, as of this date, the estimated data are published according to province of residence in order to improve the comparability of the provisional data with the final data from previous years.

On occasions, the residence of the deceased is not always well informed in INFOREG/DICIREG, and therefore in these cases, the province of residence of the deceased has been imputed according to the place where the registration was made.

4.3 REFERENCE PERIOD

The time period in the tables will have the form YYYY-SXX, where:

YYYY is the year, for example 2020.

XX is the week number according to the ISO8601 standard (which runs from 01 to 52/53 depending on the year). The first week of a year is the calendar week (Monday to Sunday) that contains the first Thursday of the year.

Data is provided for every week since 2000.

4.4 CLASSIFICATION VARIABLES

In addition to the classification by provinces and islands, the estimated data is also broken down by:

- Sex.
- Five-year age groups (0-4 5-9, ..., 90 and over).

5 Characteristics of the Project

5.1 OBSERVATION UNITS TO WHICH THE PRIMARY DATA REFER

The observation unit is the death entry registered in the Civil Registry, which contains the registration data used for the statistics: sex and age of the deceased person.

5.2 DATA COLLECTION METHODOLOGY

The General Office of Legal Security and Public Faith sends files of deaths recorded in Inforeg to the INE on a daily basis.

5.3 ESTIMATION METHOD

The deaths recorded in Inforeg for each week in each geographical area (CCAA, provinces, islands) are calculated as follows:

$$\widehat{D}_i^t = D_i^t * f_i * r_{ix}$$

Where \widehat{D}_i^t is the estimated number of deaths for geographic entity i (Autonomous Community, province, island) and week t,

 D_i^t is the number of deaths registered in Inforeg for week t in geographic entity i.

 f_i are the under coverage correction coefficients for the original Inforeg data. It is an expansion factor that historically relates recorded deaths that finally occurred in geographical area i (Autonomous Community, province, island). See the values in the annex.

 r_{ix} is a coefficient that corrects the delay in recording data in Inforeg for the geographical area "i", and the age in weeks "x" of the deaths with respect to the date of publication. This coefficient is used in very isolated cases, for the most recent two weeks published. This is updated and corrected with each new publication of results.

6 Dissemination plan and periodicity

6.1 PLAN FOR TABLES

The following tables are published:

- Weekly and accumulated deaths. National and by Autonomous Community. 2000-2023.
- Weekly and accumulated deaths. National and by province. 2000-2023.
- Weekly and accumulated deaths. Islands. 2000-2023.
- Weekly and accumulated deaths by sex and age. National and by Autonomous Community. 2019-2023.
- Weekly and accumulated deaths by sex and age. National and by province. 2019-2023.

6.2 OPERATION CALENDAR AND UPDATING OF PROVISIONAL DATA

In principle, the EDeS statistics are expected to be published monthly around the 15th. On that date, a working day of week s, the series of weekly deaths will be updated up to week s-3 (calendar week, from Monday to Sunday).

As provisional data based on CMD/BED documents becomes available, estimates will be replaced by this provisional data.

The frequency and timeliness of EDeS may change if circumstances require. That is, it
could on the one hand be passed to weekly publication. On the other, the day of
publication, a working day of week s, could be published the deaths of week s-2.

7 Cost and burden

Being a statistic based on an administrative record, they do not have an additional burden on the informants.

Annex Correction coefficients for the original Inforeg data

Territorial scope	Inforeg deaths/INE deaths (in%)	Under-coverage correction coefficient (f i)
Andalucía		
Almería	99.80809	1.00192
Cádiz	99.59777	1.00404
Córdoba	100.00000	1.00000
Granada	99.45802	1.00545
Huelva	99.57108	1.00431
Jaén	100.00000	1.00000
Málaga	99.30443	1.00700
Sevilla	99.80880	1.00192
Aragón		
Huesca	100.00000	1.00000
Teruel	100.00000	1.00000
Zaragoza	100.00000	1.00000
Principado de Asturias	99.71635	1.00284
Illes Balears		
Ibiza y Formentera	100.00000	1.00000
Mallorca	99.87547	1.00125
Menorca	100.00000	1.00000
Canarias		
Fuerteventura (Las Palmas)	100.00000	1.00000
Gran Canaria (Las Palmas)	100.00000	1.00000
Lanzarote (Las Palmas)	86.58925	1.15488
La Gomera (Sta Cruz de Tenerife)	100.00000	1.00000
El Hierro (Sta Cruz de Tenerife)	100.00000	1.00000
La Palma (Sta Cruz de Tenerife)	97.80763	1.02242
Tenerife (Sta Cruz de Tenerife)	100.00000	1.00000
Cantabria	75.28895	1.32822
Castilla y León		
Ávila	86.74089	1.15286
Burgos	84.22894	1.18724
León	68.91806	1.45100
Palencia	77.99544	1.28213
Salamanca	62.06151	1.61130
Segovia	84.71148	1.18048
Soria	86.89076	1.15087
Valladolid	96.31082	1.03830
Zamora	69.17505	1.44561

Castilla la Mancha	Territorial	Inforeg deaths/INE	Under-coverage correction			
Albacete 99.12387 1.00884 Ciudad Real 98.22683 1.01805 Cuenca 88.09168 1.13518 Guadalajara 91.28592 1.09546 Toledo 96.54402 1.03580 Cataluña Barcelona 100.00000 1.00000 Girona 99.66633 1.00335 Lleida 99.68582 1.00315 Tarragona 99.62426 1.00377 Comunitat Valenciana Alicante/Alacant 99.35003 1.00654 Castellón / Castelló 99.55196 1.00450 Valencia / València 99.48825 1.00514 Extremadura Badajoz 94.82529 1.05457 Cáceres 84.19732 1.18769 Galicia Coruña, A 100.0000 1.00000 Curense 100.00000 1.00000 Ourense 100.00000 1.00000 Pontevedra 100.00000 1.00000 Comunidad de Madrid 88.41345 1.13105 Región de Murcia 98.07586 1.01962 Comunidad Foral de Navarra 100.00000 País Vasco Araba/Álava 100.00000 1.00000 País Vasco Araba/Álava 100.00000 1.00000	scope	deaths (in%)	coefficient (f i)			
Ciudad Real 98.22683 1.01805 Cuenca 88.09168 1.13518 Guadalajara 91.28592 1.09546 Toledo 96.54402 1.03580 Cataluña Barcelona 100.0000 1.00000 Girona 99.66633 1.00335 Lleida 99.68582 1.00315 Tarragona 99.62426 1.00377 Comunitat Valenciana Alicante/Alacant 99.35003 1.00654 Castellón / Castelló 99.55196 1.00450 Valencia / València 99.48825 1.00514 Extremadura 84.19732 1.18769 Galicia 6 1.005457 Cáceres 84.19732 1.18769 Galicia 10.00000 1.00000 Ourense 100.00000 1.00000 Pontevedra 100.00000 1.00000 Comunidad de Madrid 88.41345 1.13105 Región de Murcia 98.07586 1.01962 Comunidad Foral de Navarra						
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·	Araba/Álava	100.00000	1.00000			
Bizkaia 100.00000 1.00000	Gipuzkoa	100.00000	1.00000			
100000	Bizkaia	100.00000	1.00000			
La Rioja 100.00000 1.00000	La Rioja	100.00000	1.00000			
Ceuta 100.00000 1.00000	Ceuta	100.00000	1.00000			
Melilla 100.00000 1.00000	Melilla	100.00000	1.00000			