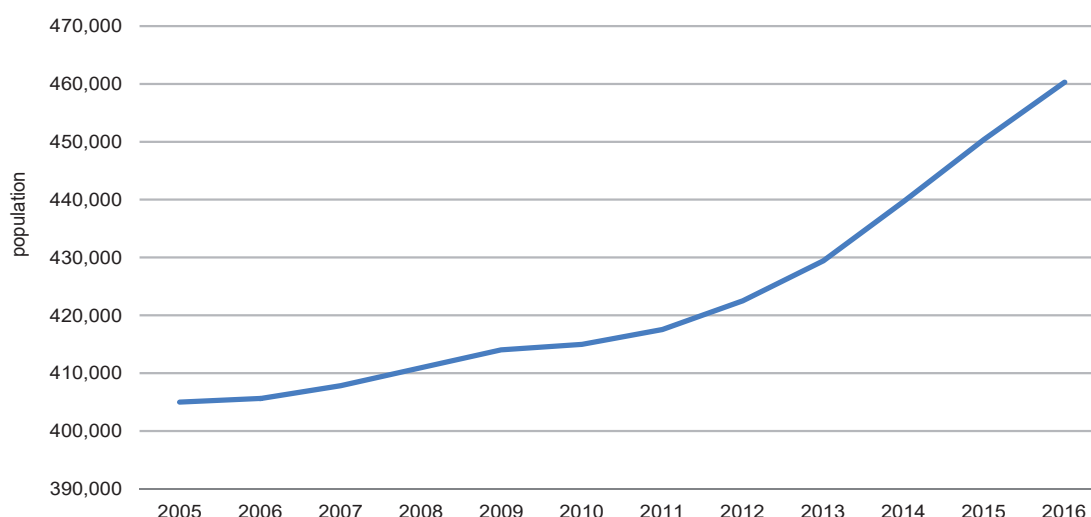


In 2017, benchmark revisions were undertaken for the estimation of migration flows. National methodologies and data sources were reviewed and updated leading to a revision of the time-series data on population counts from 2012-2016.

## Population Statistics (Revisions): 2012-2016

Methodological improvements have led to the revision of migration flow data for European Union (EU) and regular Third Country Nationals (TCN) migrants for the period 2012-2016 (Table 1). In turn, the total and foreign population counts for the time series 2012-2016 have also been revised. The total resident population as at 31 December 2016 stands at 460,297. The share of the total population that is foreign is 11.8 per cent (Table 2).

**Chart 1. End-of-year total population estimates: 2005-2016**



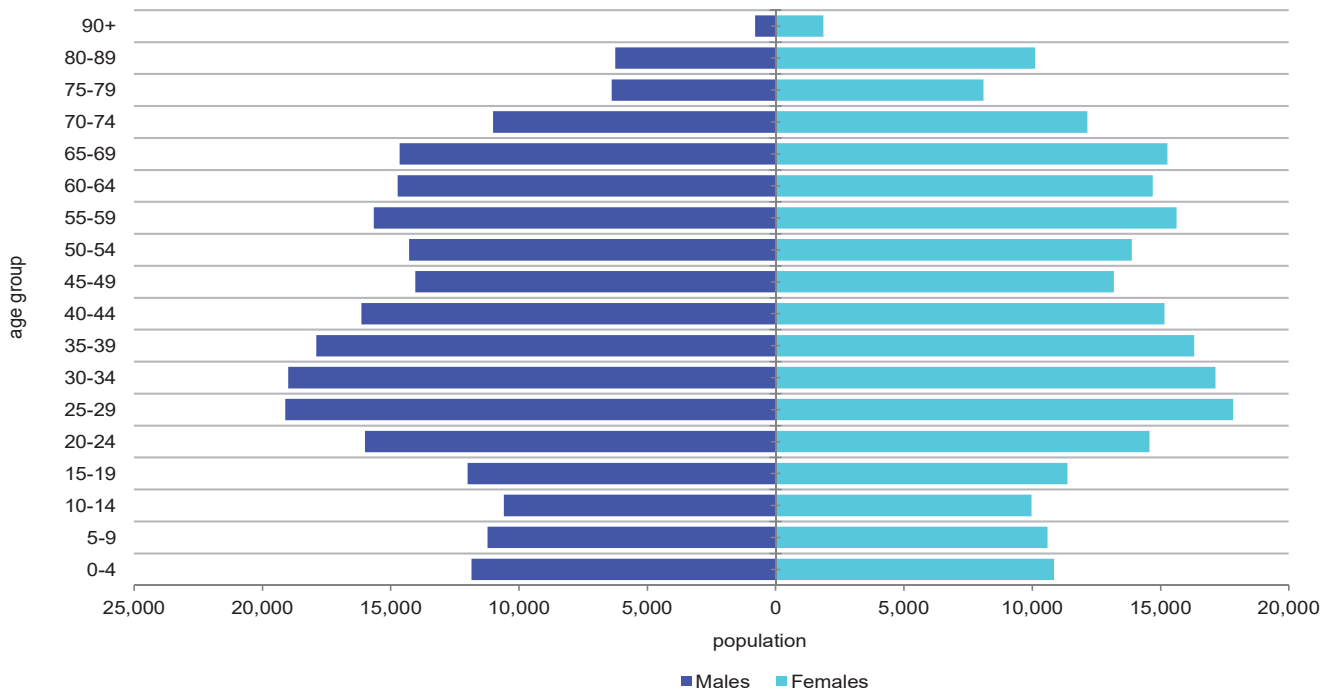
Detailed revised tables for reference years 2012-2016 can be downloaded in the accompanying annex of tables in excel format included with this release. Users of this data are also encouraged to refer to methodological notes for further details on the revision exercise. In line with the revisions presented in this release, the StatDB online database will be updated with revised data as from 12/02/2018.

The remainder of this release will refer to data pertaining to reference year 2016.

## Population reference year 2016

When compared to 2015, the population increase was mainly due to net migration (immigration less emigration) (Table 3). The revised total population of Malta at the end of 2016 stood at 460,297. Persons under 18 made up 17.0 per cent of the total population, while a further 18.8 per cent were aged 65 and over (Table 4).

**Chart 2. Population pyramid as at 31st December 2016**



Life expectancy at birth for 2016 stood at 80.6 years for males and 84.4 years for females, while life expectancy at age 65 stood at 19.7 years for males and 22.1 years for females (Table 5) ■

**Table 1. Annual estimates of migration flows: 2012-2016**

Year	Total	Males	Females
	Immigration		
2012	8,256	4,639	3,617
2013	10,897	6,355	4,542
2014	14,454	8,409	6,045
2015	16,936	9,594	7,342
2016	17,051	9,585	7,466
Year	Emigration		
	Total	Males	Females
2012	4,005	2,346	1,659
2013	4,778	2,678	2,100
2014	5,108	3,022	2,086
2015	7,095	4,162	2,933
2016	8,303	5,039	3,264

**Table 2. End-of-year total and Maltese population estimates: 2005-2016**

Year	Males	Females	Total
	Total population		
2005*	200,838	204,161	404,999
2006	201,519	204,097	405,616
2007	202,734	205,098	407,832
2008	204,607	206,319	410,926
2009	206,203	207,824	414,027
2010	206,405	208,584	414,989
2011*	207,695	209,851	417,546
2012	210,383	212,126	422,509
2013	214,533	214,891	429,424
2014	220,488	219,203	439,691
2015	226,396	224,019	450,415
2016	231,663	228,634	460,297
Year	Maltese population		
	Males	Females	Total
2005*	194,906	197,934	392,840
2006	194,791	197,424	392,215
2007	195,254	197,853	393,107
2008	195,681	198,454	394,135
2009	196,052	199,023	395,075
2010	196,397	199,453	395,850
2011*	197,027	200,217	397,244
2012	197,857	201,041	398,898
2013	198,648	201,756	400,404
2014	199,381	202,487	401,868
2015	200,233	203,247	403,480
2016	201,532	204,444	405,976

\* Based on Census taken in that year

**Table 3. Composition of population change: 2016**

	<b>Males</b>	<b>Females</b>	<b>Total</b>
Population end 2015	226,396	224,019	450,415
+ Births*	2,365	2,111	4,476
+ Adoptions (foreign)	11	9	20
- Deaths	1,644	1,698	3,342
<b>Sub-total</b>	<b>227,128</b>	<b>224,441</b>	<b>451,569</b>
<b>Migration flows:</b>			
+ Immigration of Maltese nationals	707	669	1,376
- Emigration of Maltese nationals	592	366	958
+ Immigration of Other EU nationals	5,134	3,834	8,968
- Emigration of Other EU nationals	1,866	1,360	3,226
+ Immigration of Third-country nationals	3,733	2,954	6,687
- Emigration of Third-country nationals	2,581	1,538	4,119
<b>Population end 2016</b>	<b>231,663</b>	<b>228,634</b>	<b>460,297</b>

\* Birth figures refer to babies born to mothers who are resident in Malta

Table 4. Total population by single years of age as at 31 December 2016\*

Age group/ Single years	Males	Females	Total	Age group/ Single years	Males	Females	Total
<b>0-9</b>	<b>23,072</b>	<b>21,446</b>	<b>44,518</b>	<b>50-59</b>	<b>29,947</b>	<b>29,500</b>	<b>59,447</b>
Less than 1	2,442	2,179	4,621	50	2,646	2,554	5,200
1	2,367	2,294	4,661	51	2,752	2,700	5,452
2	2,366	2,091	4,457	52	2,897	2,777	5,674
3	2,297	2,101	4,398	53	2,917	2,818	5,735
4	2,376	2,187	4,563	54	3,079	3,030	6,109
5	2,320	2,237	4,557	55	3,123	2,982	6,105
6	2,190	2,123	4,313	56	3,192	3,183	6,375
7	2,259	2,160	4,419	57	3,079	3,154	6,233
8	2,291	2,118	4,409	58	3,097	3,149	6,246
9	2,164	1,956	4,120	59	3,165	3,153	6,318
<b>10-19</b>	<b>22,604</b>	<b>21,336</b>	<b>43,940</b>	<b>60-69</b>	<b>29,390</b>	<b>29,961</b>	<b>59,351</b>
10	2,147	1,932	4,079	60	3,132	3,114	6,246
11	2,110	2,000	4,110	61	3,034	2,938	5,972
12	2,077	1,969	4,046	62	2,946	2,919	5,865
13	2,123	2,103	4,226	63	2,807	2,826	5,633
14	2,140	1,965	4,105	64	2,813	2,901	5,714
15	2,139	2,025	4,164	65	2,780	2,880	5,660
16	2,278	2,301	4,579	66	2,997	3,033	6,030
17	2,338	2,256	4,594	67	2,969	3,008	5,977
18	2,525	2,349	4,874	68	2,974	3,134	6,108
19	2,727	2,436	5,163	69	2,938	3,208	6,146
<b>20-29</b>	<b>35,116</b>	<b>32,398</b>	<b>67,514</b>	<b>70-79</b>	<b>17,400</b>	<b>20,239</b>	<b>37,639</b>
20	2,924	2,593	5,517	70	2,730	3,023	5,753
21	3,060	2,686	5,746	71	2,608	2,816	5,424
22	3,129	2,868	5,997	72	2,656	2,815	5,471
23	3,358	3,101	6,459	73	1,784	2,097	3,881
24	3,534	3,321	6,855	74	1,229	1,396	2,625
25	3,700	3,408	7,108	75	1,221	1,504	2,725
26	3,797	3,534	7,331	76	1,316	1,629	2,945
27	3,891	3,774	7,665	77	1,351	1,687	3,038
28	3,905	3,633	7,538	78	1,293	1,659	2,952
29	3,818	3,480	7,298	79	1,212	1,613	2,825
<b>30-39</b>	<b>36,900</b>	<b>33,449</b>	<b>70,349</b>	<b>80-89</b>	<b>6,246</b>	<b>10,108</b>	<b>16,354</b>
30	3,788	3,349	7,137	80	1,170	1,511	2,681
31	3,834	3,381	7,215	81	967	1,407	2,374
32	3,747	3,361	7,108	82	826	1,212	2,038
33	3,808	3,450	7,258	83	731	1,189	1,920
34	3,817	3,594	7,411	84	638	1,105	1,743
35	3,621	3,339	6,960	85	534	996	1,530
36	3,650	3,270	6,920	86	455	883	1,338
37	3,608	3,280	6,888	87	354	715	1,069
38	3,494	3,240	6,734	88	312	562	874
39	3,533	3,185	6,718	89	259	528	787
<b>40-49</b>	<b>30,180</b>	<b>28,340</b>	<b>58,520</b>	<b>90+</b>	<b>808</b>	<b>1,857</b>	<b>2,665</b>
40	3,397	3,219	6,616				
41	3,453	3,132	6,585	<b>Total</b>	<b>231,663</b>	<b>228,634</b>	<b>460,297</b>
42	3,263	3,014	6,277				
43	3,034	2,911	5,945				
44	2,996	2,881	5,877				
45	3,000	2,789	5,789				
46	2,889	2,670	5,559				
47	2,744	2,514	5,258				
48	2,761	2,640	5,401				
49	2,643	2,570	5,213				

\*Based on the November 2011 Census

Table 5. Complete life table: 2016 ...

Age	Males		Females		Total	
	$l_x$	${}^o e_x$	$l_x$	${}^o e_x$	$l_x$	${}^o e_x$
0	10,000	80.6	10,000	84.4	10,000	82.6
1	9,916	80.3	9,941	83.9	9,928	82.2
2	9,912	79.3	9,936	82.9	9,924	81.2
3	9,912	78.3	9,936	81.9	9,924	80.2
4	9,912	77.3	9,936	80.9	9,924	79.2
5	9,912	76.3	9,936	79.9	9,924	78.2
6	9,907	75.4	9,936	78.9	9,921	77.2
7	9,907	74.4	9,936	77.9	9,921	76.2
8	9,907	73.4	9,936	76.9	9,921	75.2
9	9,907	72.4	9,936	75.9	9,921	74.2
10	9,907	71.4	9,936	74.9	9,921	73.2
11	9,907	70.4	9,936	73.9	9,921	72.2
12	9,907	69.4	9,936	72.9	9,921	71.2
13	9,907	68.4	9,932	72.0	9,919	70.2
14	9,907	67.4	9,932	71.0	9,919	69.2
15	9,907	66.4	9,932	70.0	9,919	68.2
16	9,907	65.4	9,932	69.0	9,919	67.2
17	9,907	64.4	9,923	68.0	9,915	66.3
18	9,903	63.4	9,918	67.1	9,910	65.3
19	9,892	62.5	9,918	66.1	9,904	64.3
20	9,892	61.5	9,914	65.1	9,902	63.3
21	9,888	60.5	9,911	64.1	9,899	62.4
22	9,885	59.5	9,911	63.1	9,897	61.4
23	9,882	58.5	9,907	62.1	9,894	60.4
24	9,882	57.5	9,907	61.1	9,894	59.4
25	9,882	56.5	9,907	60.1	9,894	58.4
26	9,877	55.6	9,907	59.1	9,891	57.4
27	9,871	54.6	9,907	58.1	9,888	56.4
28	9,866	53.6	9,904	57.2	9,884	55.5
29	9,861	52.7	9,904	56.2	9,882	54.5
30	9,856	51.7	9,904	55.2	9,879	53.5
31	9,856	50.7	9,904	54.2	9,879	52.5
32	9,853	49.7	9,901	53.2	9,876	51.5
33	9,848	48.7	9,901	52.2	9,873	50.5
34	9,845	47.7	9,890	51.2	9,866	49.6
35	9,840	46.8	9,890	50.2	9,864	48.6
36	9,831	45.8	9,884	49.3	9,856	47.6
37	9,815	44.9	9,881	48.3	9,846	46.6
38	9,807	43.9	9,869	47.3	9,836	45.7
39	9,795	43.0	9,853	46.4	9,823	44.8
40	9,784	42.0	9,844	45.5	9,812	43.8
41	9,758	41.1	9,841	44.5	9,798	42.9
42	9,749	40.2	9,831	43.5	9,788	41.9
43	9,743	39.2	9,831	42.5	9,785	40.9
44	9,737	38.2	9,831	41.5	9,782	39.9

... Table 5. Complete life table: 2016

Age	Males		Females		Total	
	$l_x$	${}^o e_x$	$l_x$	${}^o e_x$	$l_x$	${}^o e_x$
45	9,733	37.2	9,828	40.5	9,778	39.0
46	9,713	36.3	9,806	39.6	9,758	38.0
47	9,696	35.4	9,802	38.6	9,747	37.1
48	9,675	34.4	9,787	37.7	9,728	36.1
49	9,660	33.5	9,760	36.8	9,708	35.2
50	9,638	32.6	9,753	35.8	9,693	34.3
51	9,588	31.7	9,738	34.9	9,660	33.4
52	9,558	30.8	9,720	33.9	9,636	32.5
53	9,528	29.9	9,706	33.0	9,614	31.5
54	9,490	29.0	9,689	32.0	9,586	30.6
55	9,438	28.2	9,667	31.1	9,548	29.8
56	9,399	27.3	9,623	30.3	9,507	28.9
57	9,327	26.5	9,574	29.4	9,447	28.1
58	9,294	25.6	9,550	28.5	9,418	27.1
59	9,243	24.8	9,523	27.6	9,379	26.3
60	9,197	23.9	9,511	26.6	9,349	25.3
61	9,140	23.0	9,479	25.7	9,305	24.5
62	9,073	22.2	9,447	24.8	9,255	23.6
63	9,016	21.3	9,394	23.9	9,200	22.7
64	8,972	20.4	9,355	23.0	9,158	21.8
65	8,854	19.7	9,294	22.1	9,068	21.0
66	8,775	18.9	9,240	21.3	9,002	20.2
67	8,658	18.1	9,164	20.4	8,905	19.4
68	8,552	17.3	9,081	19.6	8,810	18.6
69	8,428	16.6	8,993	18.8	8,705	17.8
70	8,326	15.8	8,924	18.0	8,619	17.0
71	8,145	15.1	8,825	17.2	8,479	16.3
72	8,004	14.4	8,722	16.3	8,358	15.5
73	7,838	13.7	8,585	15.6	8,206	14.8
74	7,664	13.0	8,469	14.8	8,062	14.0
75	7,498	12.2	8,325	14.1	7,908	13.3
76	7,308	11.6	8,199	13.3	7,752	12.6
77	7,045	11.0	8,035	12.5	7,541	11.9
78	6,823	10.3	7,870	11.8	7,349	11.2
79	6,601	9.6	7,673	11.1	7,142	10.5
80	6,340	9.0	7,440	10.4	6,896	9.9
81	6,019	8.5	7,159	9.8	6,598	9.3
82	5,669	8.0	6,912	9.1	6,306	8.7
83	5,360	7.4	6,532	8.6	5,961	8.2
84	4,960	6.9	6,090	8.2	5,542	7.7
85+	4,539	6.5	5,678	7.8	5,132	7.3

The column  $l_x$  shows, for each sex, the number of persons who would survive to exact age  $x$  out of 10,000 born who were subject throughout their lives to the recorded age death rates of the period. Column  ${}^o e_x$  is the 'expectation of life', that is the average remaining lifetime for a person who survives at the beginning of the indicated age interval, if likewise subject to those death rates.

## Methodological Notes

1. All population components are based on definitions provided for in the European Regulation (EU) No. 1260/2013 on European demographic statistics.
2. All migration components are based on definitions provided for in the European Regulation (EU) No. 862/2007 on Community statistics on migration and international protection.
3. In 2017, a review of the methodology used to estimate migration flows for European Union (EU) and regular Third Country National (TCN) migrants was undertaken. This was, in part, initiated by the sudden increase in migration flows, a trend which differed from that observed between previous censuses and could not have been predicted basing on the assumptions of these past trends.
4. Following upon the recommendations provided by external experts, efforts were made to develop person-based databases from the events based data used to estimate migration flows. These person based databases provide a significant improvement to the updating procedures as they allow for:
  - Creation of a timeline for each unique individual which allows, amongst others, more accurate calculation of duration.
  - Historic analysis of flow trends that can be used to update assumptions in mathematical estimations, which then can be validated once annual updates of the database are conducted.
  - Addressing of quality issues in source data through data linkage and cleaning, such as removal of duplicate persons due to input errors at source.
  - Linkage to other sources to verify and update personal information during annual updating procedures.

### 5. Definitions

- **Civil marriages:** all non-religious marriages that are recognised by Maltese law.
- **Crude marriage rate:** total number of marriages per thousand mid-year population.
- **Emigration:** the action by which a natural person leaves his or her usual residence in the territory of the Member State for a period that is, or is expected to last, a minimum of 12 months. This figure is measured by summing up the counts of all employment termination forms which ended during the reference year; residence permit holders who fail to extend their permits during the reference year, together with their dependants; resettled or repatriated asylum seekers who were previously given protection and other Maltese emigrants (i.e. persons who leave the country for a period of at least 12 months).
- **Immigration:** the action by which a natural person establishes his or her usual residence in a territory of a State for a period that is, or is expected to last, a minimum of 12 months. This figure is measured by summing up the count of all new employment engagement forms and residence permit holders, their dependants, asylum seekers under protection, returned migrants and new adoptions of children from foreign countries.
- **Mid-year population:** Total and Maltese mid-year population is calculated by averaging start-of-the-year and end-year population estimates.
- **Natural increase:** The difference between the number of live births and the number of deaths during a reference year.
- **Total population:** all persons residing in Malta. The total population at the end of year  $t$ , is computed using the equation  $P_t = P_{t-1} + B_t - D_t + I_t - E_t$ , where:
  - $P_t$  is the total resident population at the end of year  $t$ ,
  - $P_{t-1}$  is the total resident population at the end of year  $t-1$ ,
  - $B_t$  is the total number of births born to mothers resident in Malta registered during year  $t$ ,
  - $D_t$  is the total number of deaths of persons resident in Malta registered during year  $t$ ,
  - $I_t$  is the total immigration of both Maltese and foreign nationals registered during year  $t$  who immigrated with the intention to live in Malta for a period of at least 12 months.
  - $E_t$  is the total emigration of both Maltese and foreign nationals resident in Malta registered during year  $t$  who leave the country for a period of at least 12 months.
- **Live births resident in Malta:** all babies whose parent(s) is(are) resident in Malta at the time of birth. Therefore the definition excludes babies born to mothers who are resident abroad.
- **Total registered live births:** all births registered in Malta and Gozo by Maltese and foreign parents. Still births are excluded.
- **Total registered marriages:** all marriages registered in Malta and Gozo. These include marriages between non-resident foreign spouses.
- **Total deaths:** all registered Maltese and foreign deaths in Malta and Gozo. These counts exclude deaths of tourists, but include Maltese residents who die abroad and whose death is subsequently registered in Malta. This definition excludes still births.
- **Third Country National:** any person who is not a citizen of the European Union.



- **Usual residence:** refers to the place where a person normally spends the daily period of rest, regardless of temporary absences for purposes of recreation, holidays, visits to friends and relatives, business, medical treatment or religious pilgrimage. Usual residents of a specific geographical area are:
  - i those who have lived in their place of usual residence for a continuous period of at least 12 months before the reference time; or
  - ii those who arrived in their place of residence during the 12 months before the reference time with the intention of staying there for at least one year.
- **Usually resident population:** refers to all persons who have their usual residence in a Member State at the reference time.

#### 6. Sources:

- Demographic data in this release is based on records held by the Public Registry and the Directorate of Health Information and Research.
- Migration data is based on relevant administrative records and on estimates based on auxiliary information and access to administrative records as shown in the table below:

Entity	Data flows	Data records
National Statistics Office (NSO)	Immigration of Maltese Nationals	Decennial Census of Population and Housing
	Emigration of Maltese Nationals	Ongoing frontier survey: TOURSTAT
Employment and Training Corporation (Jobsplus)	Migration Flows of European Union Nationals	Ongoing frontier survey: TOURSTAT
Office of the Refugee Commissioner	Migration Flows of Third-Country Nationals	Employment engagement and termination forms
Third-Country Nationals Unit		Asylum records
Citizenship and Expatriates Affairs		Resettlements and repatriations
		Residence permits database

#### 7. Geographical information:

The European Union includes Belgium, Bulgaria, the Czech Republic, Denmark, Germany, Estonia, Ireland, Greece, Spain, France, Croatia, Italy, Cyprus, Latvia, Lithuania, Luxembourg, Hungary, Malta, the Netherlands, Austria, Poland, Portugal, Romania, Slovenia, Slovakia, Finland, Sweden and the United Kingdom

8. Timely population estimates are published in order to meet user needs. These estimates are subject to further quality assurance processes and may be subject to revision in subsequent demographic publications.
9. More information relating to this news release may be accessed at:

Sources and Methods:

[https://nso.gov.mt/en/nso/Sources\\_and\\_Methods/Unit\\_C5/Population\\_and\\_Migration/Pages/Demography.aspx](https://nso.gov.mt/en/nso/Sources_and_Methods/Unit_C5/Population_and_Migration/Pages/Demography.aspx)

Statistical Concepts: <http://nso.gov.mt/metadata/concepts.aspx>

Metadata (Demography): <http://nso.gov.mt/metadata/reports.aspx?id=36>

Metadata (Migration): <http://nso.gov.mt/metadata/reports.aspx?id=38>

10. Any quotations from this news release are to be cited and/or referenced.

11. A detailed news release calendar is available on

[https://nso.gov.mt/en/News\\_Releases/Release\\_Calendar/Pages/News-Release-Calendar.aspx](https://nso.gov.mt/en/News_Releases/Release_Calendar/Pages/News-Release-Calendar.aspx)