

East Dorset District

2011 Census Based Projection

District Population Projections: Population projections up to 2031.

Variant: Trend, Census based

Constraint: There are no population or household constraints used.

Assumptions: 2001 and 2011 Census based. Official mid-year estimates were not included as they are due to be re-estimated following 2011 census results. Alternatively actual net dwelling completions between 2002 and 2010 by district are included as a basis for levels of population growth during 2001 and 2011. Assumptions for future births, deaths and migration are based on assumptions produced by the ONS for 2010-based sub-national population projections (SNPP). Components of change data between 2001 and 2010 are consistent with the historical data for births and deaths from 2001 to 2010, whilst migration numbers are experimental. This approach of projection assumes that population change is guided by the levels of births, deaths and migration input in the model, and these assumptions meet with the expectations as calculated by the ONS.

BDP Population Projections, 2011 Census based:

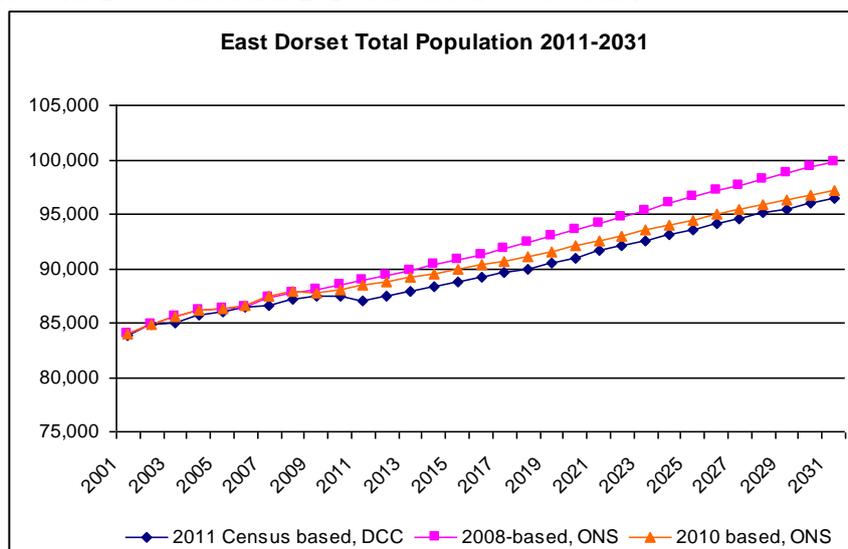
	2011	2016	2021	2026	2031	% growth 2011-2031
East Dorset	87,100	89,200	91,600	94,100	96,400	10.7

Note: numbers have been rounded to the nearest 100 and may not sum because of this.

The table above shows the change in total population from 2011 to 2031.

East Dorset:

East Dorset is expected to show a growth in population of 10.7% between 2011 and 2031, an increase of 9,300 persons. The chart below shows the different levels of growth expected in comparison to the 2008-based and 2010-based SNPP from ONS.



The chart shows that the 2011 census based projection results in a lower population than that projected by ONS in their 2008-based and 2010-based scenarios. The chart indicates that in the 2011 census based projection there is a slower growth in population in the pre-projection period than estimated by ONS, increasing in population approximately 0.5%

between 2001 and 2008 in comparison to 0.7%. Growth rates dip slightly between 2008 and 2010 at 0.3% per annum, increasing to a steady rate of approximately 0.5% growth per annum throughout the projection period of 2011 to 2031. The annual rate of growth between the 2011 census projection and the ONS projections are similar (2008-based projects 0.6% annual increase, 2010-based projects 0.5% annual increase), it is the different base population in 2011 which results in the different total populations by 2031 across the scenarios.

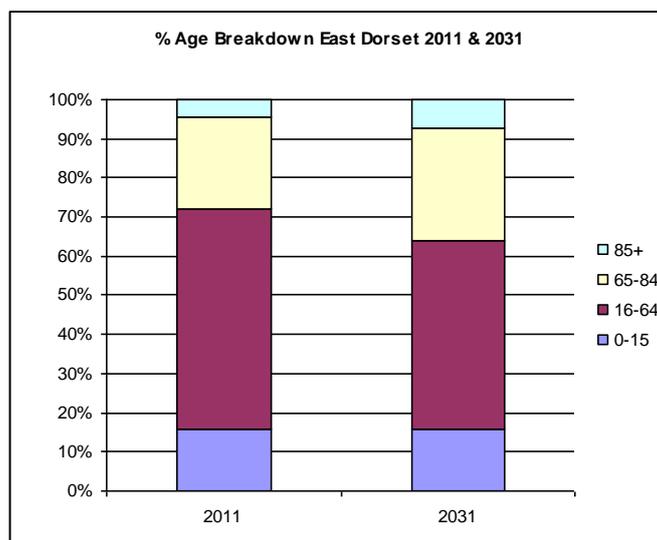
The table below shows the change in population across 3 broad age groups for East Dorset.

		2011	2016	2021	2026	2031	% growth 2011-2031
East Dorset	0-15	13,700	14,100	15,100	15,700	15,300	12.3
East Dorset	16-64	49,100	47,600	47,100	46,800	46,300	-5.8
East Dorset	65+	24,300	27,500	29,400	31,700	34,800	43.0
East Dorset	Total	87,100	89,200	91,600	94,100	96,400	10.6

Note: numbers have been rounded to the nearest 100 and may not sum because of this.

From 2011-2031 it is projected that the number of adults aged 65+ will increase by 43%. The largest increases are expected in adults 85+, increasing 80% from 3,800 in 2011 to 6,900 in 2031, this is due to expected continued gains in life expectancy. The working age population (16-64) is expected to decline by 5.8% whilst the younger population (0-15's) are expected to increase in numbers 12.3%. This bucks the usual trend of projected losses in younger age groups, this is because it is assumed that increases in fertility will continue throughout the beginning of the projection period resulting in more births and a younger population.

The chart below shows the proportional changes in age distribution between 2011 and 2031, indicating that older people are projected to become a more dominant feature of East Dorset's population by 2031, with 36% over 65 in comparison to 28% in 2011. The proportion of 0-15 year olds in the population is projected to remain relatively constant at approximately 16% in both 2011 and 2031.



[District Household Projections](#): Household projections up to 2031, in line with the above population projections.

Assumptions: Household projections are produced by applying projected household formation rates from the 2008-based household projections (ONS/ CLG) to the above population projections. The underlying assumptions are demographic trend based, they provide household levels and structures that would result if the assumptions based on previous demographic trends in the above population projections were to be realised.

BDP Household Projections, 2011 Census based:

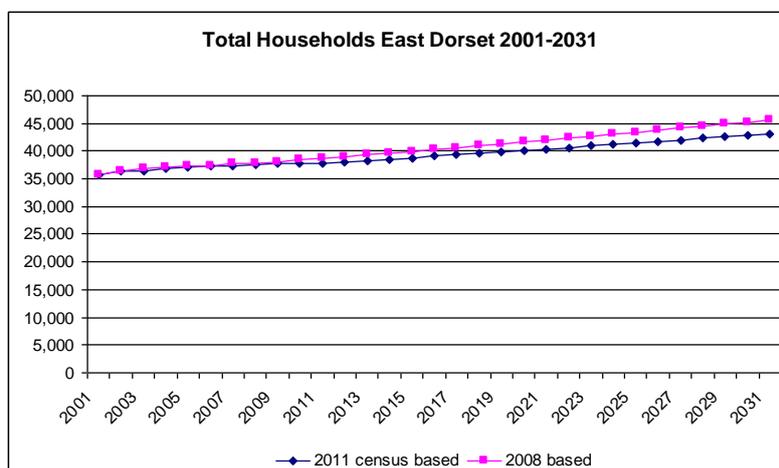
	2011	2016	2021	2026	2031	% GROWTH 2011-2031
East Dorset	37,800	39,100	40,400	41,700	43,100	14.1

Note: numbers have been rounded to the nearest 100 and may not sum because of this.

The table above shows the change in total households from 2011 to 2031.

East Dorset:

East Dorset is expected to see a growth in households of 14.1% between 2011 and 2031. The chart below shows the difference in household growth between these projections and the 2008-based household projections (still the latest set available).



The chart shows that the level of growth is higher in the 2008 based projections, an increase of 18% between 2011 and 2031, resulting in a larger number of households by 2031. The resulting household size in 2031 in the 2008-based projection from ONS is 2.19, lower than the household size calculated from the 2011 census based projection in 2031 of 2.24. Therefore household size is projected to be larger than previously projected.

The table below shows the breakdown of household (HH) types expected in East Dorset between these years.

Household (HH) type	2011	2016	2021	2026	2031	% GROWTH 2011-2031	% of Households 2011	% of Households 2031
One person HH	10,800	11,500	12,300	13,300	14,100	31.5	28.5	32.8
Couple and no others	15,100	15,700	16,300	16,900	17,700	17.5	39.8	41.0
Couple with 1 or more dependents	6,100	6,000	5,900	5,800	5,500	-8.9	16.1	12.8
Lone parent with 1 or more dependents	1,600	1,800	2,100	2,200	2,400	45.6	4.3	5.5
All other HH types	4,300	4,000	3,800	3,600	3,400	-20.3	11.4	8.0
Total	37,800	39,100	40,400	41,700	43,100	14.1	100.0	100.0

Note: numbers have been rounded to the nearest 100 and may not sum because of this

The largest increase is expected to occur in lone parent households, increasing 45.6% over the 20 years. Lone parent households still remain a low proportion of the total number of households, at 5.5% of the total proportion in 2031. The largest proportion of households in 2031 is projected to be couple households with no others (41.0%) and one person households (32.8%). These are reflective of the older age structure and expected social changes.

METHODOLOGY, SOURCES & NOTES

Methodology:

Projections have been produced using the PopGroup model referenced below. This incorporates a cohort component methodology for its population projection model. This is a standard approach to population projection applied by most national statistical agencies such as the ONS. Population in a base period has been projected forward taking account of the impact of births, deaths and migration (internal and international migration). The assumptions about future fertility, mortality and migration trends for this projection have largely been taken from the ONS assumptions in their 2010-based SNPP (released March, 2012), please see source list below for full details. These are viewed as the best choice of data currently available.

Notes regarding data:

Population & Household projections have been produced based upon demographic assumptions as outlined in the report. It is only if these assumptions were to be met that the projections would be realised.

Data is experimental and not for public release in its raw format.

Whilst the projections are produced down to unit level with comprehensive components of change it should not be assumed that they are accurate at this detailed level. They are provided for guidance on the elements influencing population change in the projection period, and to enable further calculation and analysis. Where possible, data should be aggregated to at least five year age groups and rounded to the nearest 100 for dissemination or publication purposes.

Sources:

- Population Base: 2001 and 2011 Census data (ONS).
Mid year estimates between 2002-2010 are experimental and based upon expected population growth in line with dwelling completions from 2002-2010 (DCC)
- Fertility: Age-specific fertility rates by district from ONS 2010-based SNPP
Births by district 2001-2010 (ONS)
Fertility Differentials reflect GAD 2010-based projections (ONS)
- Mortality: Age-specific mortality rates by district from ONS 2010-based SNPP
Deaths by district 2001-2010 (ONS)
Mortality Differentials reflect GAD 2010-based projections (ONS)
- UK Migration: In & Out migration district schedule from ONS 2010-based SNPP (ONS)
In & Out migration 2002-2010 are experimental and based upon population growth resulting from births/deaths and estimated total population.
UK migration differentials reflect GAD 2010-based projections (ONS)

- Overseas Migration: Standard schedule from ONS 2010 SNPP (ONS)
Numbers of migrants from 2010-based SNPP (ONS)
Overseas migration differentials reflect GAD 2010-based projections (ONS)
- Special Populations: Taken from 2001 Census (ONS/ DCC)
- Household vacancies: % of second homes/ vacant homes/ holiday homes (2001 Census and 2011 Council Tax data, DCC)
- Headship Rates: Headship rate for each combination of age, sex & type from 2008-based household projections (ONS)
- Population not in households: number of persons not in households for each combination of age, sex & type from 2008-based household projections (ONS)

Projection Model:

Population and Household projections are generated using PopGroup v3.1 Derived Forecast Model from Edge Analytics.

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