



# Population Projections

## DAPPS Projections

DAPPS is developed by the U.S Census Bureau, with funding from the U.S. Agency for International Development

# Creating a Projection

- Projection Menu → Create Projection
- Enter projection specifications
- Use “Add >” or “Add All >>” to add components for projection
- The first tab will show you available Population Data inputs
  - Choose only one

# Creating a Projection: Population

**Projection Specifications**

**Run Options**

Name: Projection 1

Title: POPSTAN FROM RUP - [DATE STAMP] - [TIME STAMP]

Area Label: TOTAL

Final Year of Projection: 2000

Sex Ratio at Birth: 1.050 1.05 <-- From RUP Input

Default Life Table Region: West (1)

**Base Population**

Year: 1985

Age Grouping: 5

Max Age: 17

**RUP Files**

☐ Name

☐ Preview Before Running

**Population** | Mortality | Fertility | Migration (Primary) | Migration (Secondary)

**Population Data**

Population Data for Estimates and Projections

Population.1985.80.5

Buttons: Add >, < Remove, Add All >>, << Remove All

Save Projection | <-- Previous | Next --> | **Run**

# Create a Projection: Mortality

- Next→
- Mortality Data
  - At least one Life Table (for Males and Females in the same year)

The screenshot shows a web interface for managing mortality data. It is divided into two main sections: 'Mortality Data' on the left and 'Mortality Data for Estimates and Projections' on the right. The 'Mortality Data' section contains a large empty box and four buttons: 'Add >', '< Remove', 'Add All >>', and '<< Remove All'. The 'Mortality Data for Estimates and Projections' section contains a list of data items: 'Life Table - Male, 1987, 80.5', 'Life Table - Female, 1987, 80.5', 'Life Table - Male, 2100, 80.5', 'Life Table - Female, 2100, 80.5', and 'Life Expectancy at Birth, 1995, 2000.5'.

Mortality Data	Mortality Data for Estimates and Projections
	Life Table - Male, 1987, 80.5
	Life Table - Female, 1987, 80.5
	Life Table - Male, 2100, 80.5
	Life Table - Female, 2100, 80.5
	Life Expectancy at Birth, 1995, 2000.5

# Create a Projection: Fertility

- Next→
- Fertility Data
  - At least one age pattern of fertility (either ASFR or Births by Age of Mother)

The screenshot shows a web interface for managing fertility data. It consists of two main panels: 'Fertility Data' on the left and 'Fertility Data for Estimates and Projections' on the right. Between them are four buttons: 'Add >', '< Remove', 'Add All >>', and '<< Remove All'. The right panel contains a list of data entries: 'ASFR.1985.15.49.5', 'ASFR.2010.15.49.5', and 'TFR.1985.2010'.

Fertility Data	Fertility Data for Estimates and Projections
	ASFR.1985.15.49.5
	ASFR.2010.15.49.5
	TFR.1985.2010

# Create a Projection: Migration

- Next→
- Primary Migration Data
  - No migration data are required
  - If there is migration input, there must be at least one age pattern of migration

The screenshot shows a web interface for entering migration data. It is divided into two main sections: 'Migration Data' on the left and 'Migration Data for Estimates and Projections' on the right. Between these sections are four buttons: 'Add >', '< Remove', 'Add All >>', and '<< Remove All'. The 'Migration Data for Estimates and Projections' section contains two lines of text: 'Migration Totals.1987,80.5' and 'Migration Totals (Year).2000,2000.1'.

Migration Data	Migration Data for Estimates and Projections
	Migration Totals.1987,80.5 Migration Totals (Year).2000,2000.1

# Creating a Projection: Migration

- Next→
- Secondary Migration Data
- Migrants and migration rates cannot be selected together in either Primary or Secondary Migration Data
- However, if you selected migrants in the primary stream, then you may select migration rates in the secondary stream, or vice versa.

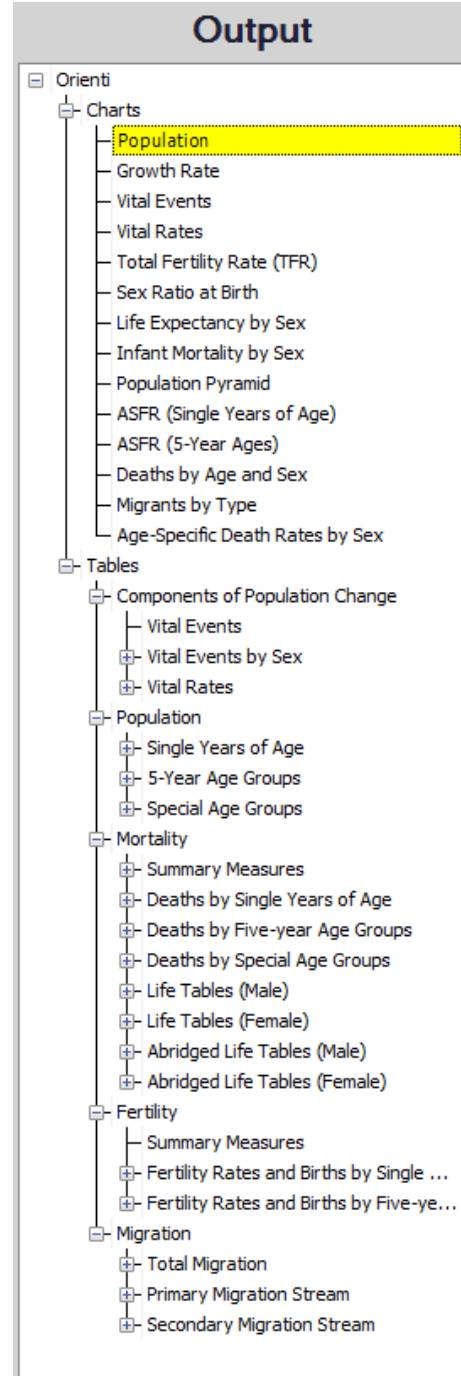
# Creating a Projection

- Once all of the fields have been entered and your components have been chosen, click “Run” to create your projection.

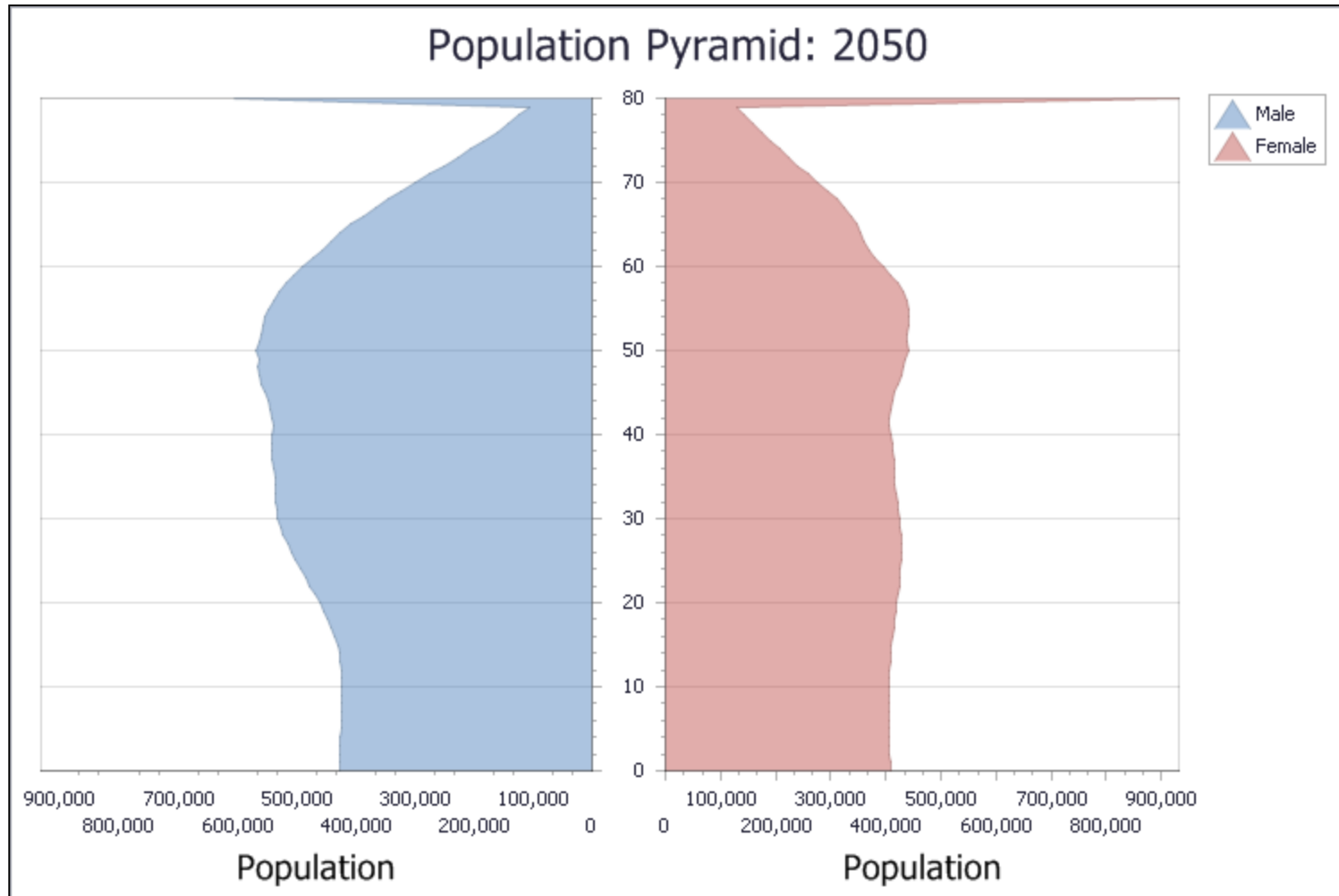


# DAPPS Projection Output

- Automatically redirected to Output tab
- Organized by projection name
  - Expand-and-collapse tree structure
- Static Charts: Population, Growth Rate, Vital Events, Vital Rates, TFR, Sex Ratio at Birth, Life Expectancy by Sex, and Infant Mortality by Sex
- Dynamic Charts: Population Pyramid, both ASFR charts, Deaths by Age and Sex, Migrants by Type, and Age-Specific Death Rates by Sex
- Tables
  - Component type (Population, Mortality, Fertility, and Migration) by year
  - Summary measures by year
- Export to Excel, PDF, image



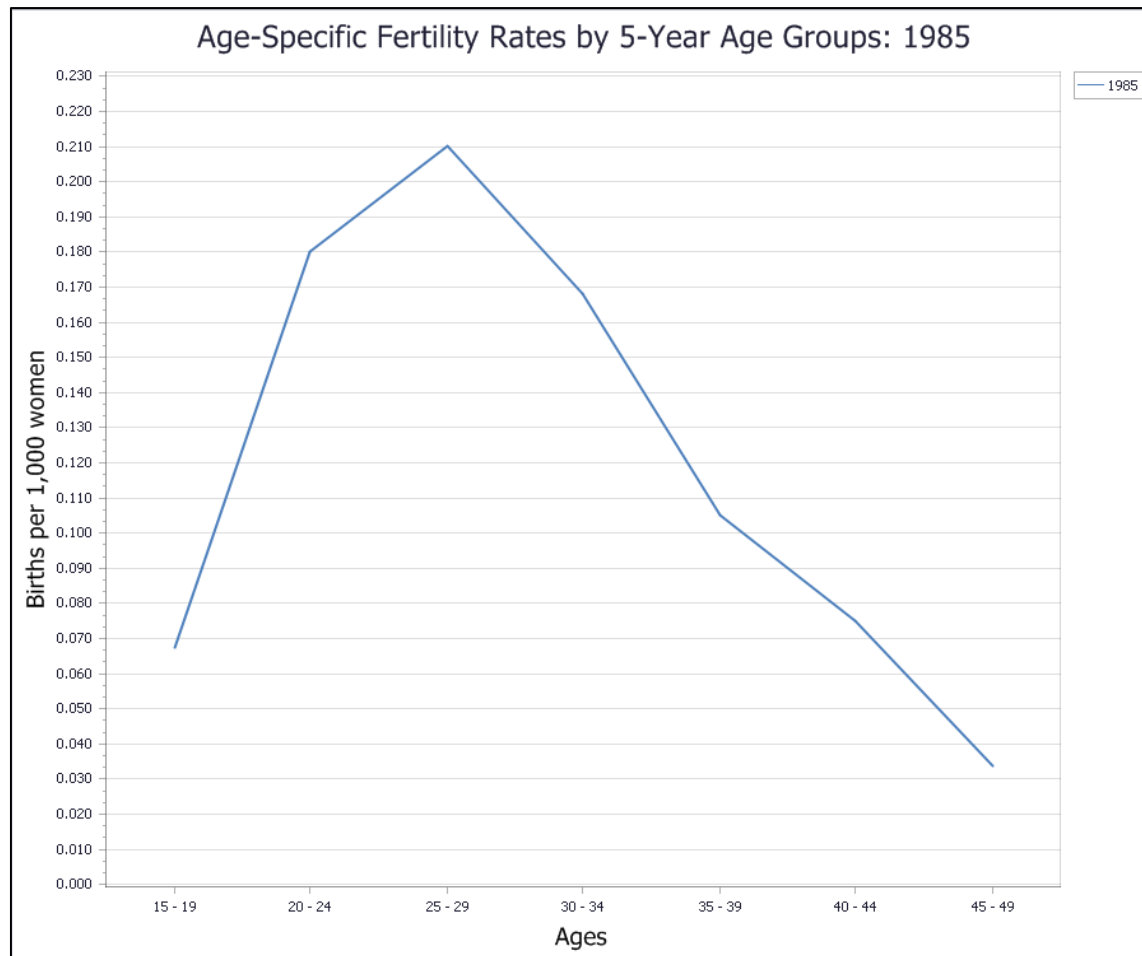
# Sample Output: Dynamic Population Pyramid for Multi-year Projection Output



# Sample Output: Population in Five-year Age Groups

5-Year Age Groups (2000)							
Age	Population			Percent			Sex Ratio
	Total	Male	Female	Total	Male	Female	
0 - 4	1,091,428	549,520	541,908	9.19	8.13	10.59	101.40
5 - 9	1,107,121	557,977	549,144	9.32	8.26	10.73	101.61
10 - 14	1,088,581	555,619	532,962	9.17	8.22	10.42	104.25
15 - 19	1,002,033	519,459	482,574	8.44	7.69	9.43	107.64
20 - 24	919,064	491,305	427,759	7.74	7.27	8.36	114.86
25 - 29	961,027	563,884	397,143	8.09	8.34	7.76	141.99
30 - 34	1,107,596	714,158	393,438	9.33	10.57	7.69	181.52
35 - 39	1,103,681	713,646	390,035	9.29	10.56	7.62	182.97
40 - 44	921,528	573,890	347,638	7.76	8.49	6.80	165.08
45 - 49	727,270	439,553	287,717	6.12	6.50	5.62	152.77
50 - 54	559,074	329,688	229,386	4.71	4.88	4.48	143.73
55 - 59	425,047	247,856	177,191	3.58	3.67	3.46	139.88
60 - 64	331,874	195,057	136,817	2.79	2.89	2.67	142.57
65 - 69	233,028	140,450	92,578	1.96	2.08	1.81	151.71
70 - 74	149,125	92,481	56,644	1.26	1.37	1.11	163.27
75 - 79	80,705	49,237	31,468	.68	.73	.62	156.47
80+	65,979	24,394	41,585	.56	.36	.81	58.66
<b>Total</b>	<b>11,874,161</b>	<b>6,758,174</b>	<b>5,115,987</b>				

# Sample Output: Dynamic ASFR Plot for Multi-year Projection Output



# Sample Output: Five-year ASFRs

		Fertility Measures							
	Year	15-19	20-24	25-29	30-34	35-39	40-44	45-49	TFR
▶	1985	0.0676	0.1802	0.2102	0.1682	0.1051	0.0751	0.0338	4.20
	1986	0.0651	0.1758	0.2060	0.1650	0.1025	0.0730	0.0328	4.10
	1987	0.0626	0.1713	0.2017	0.1619	0.0998	0.0708	0.0318	4.00
	1988	0.0601	0.1669	0.1975	0.1587	0.0972	0.0687	0.0308	3.90
	1989	0.0576	0.1625	0.1933	0.1556	0.0946	0.0666	0.0298	3.80
	1990	0.0551	0.1581	0.1891	0.1525	0.0919	0.0645	0.0288	3.70
	1991	0.0526	0.1537	0.1848	0.1493	0.0893	0.0624	0.0278	3.60
	1992	0.0501	0.1493	0.1806	0.1462	0.0867	0.0603	0.0268	3.50
	1993	0.0476	0.1449	0.1764	0.1431	0.0840	0.0582	0.0258	3.40
	1994	0.0451	0.1405	0.1722	0.1399	0.0814	0.0561	0.0248	3.30
	1995	0.0426	0.1361	0.1679	0.1368	0.0788	0.0540	0.0238	3.20
	1996	0.0410	0.1331	0.1651	0.1347	0.0770	0.0525	0.0231	3.13
	1997	0.0393	0.1301	0.1622	0.1325	0.0752	0.0511	0.0224	3.06
	1998	0.0376	0.1271	0.1593	0.1304	0.0734	0.0497	0.0217	3.00
	1999	0.0359	0.1241	0.1565	0.1283	0.0716	0.0482	0.0210	2.93
	2000	0.0342	0.1211	0.1536	0.1261	0.0698	0.0468	0.0204	2.86

# Sample Output: Summary Measures of Mortality

Summary Measures of Mortality										
Year	Life Expectancy at Birth			Infant Mortality Rate			Infant Deaths			
	Both Sexes	Male	Female	Both Sexes	Male	Female	Both Sexes	Male	Female	
1985	65.34	64.46	66.25	65.69	69.22	61.98	20,604	11,105	9,499	
1986	65.34	64.46	66.25	65.69	69.22	61.98	19,987	10,792	9,195	
1987	65.34	64.46	66.25	65.69	69.22	61.98	19,608	10,587	9,021	
1988	65.30	64.17	66.48	66.15	71.37	60.66	19,348	10,702	8,646	
1989	65.26	63.88	66.70	66.66	73.59	59.38	19,078	10,796	8,282	
1990	65.21	63.58	66.92	67.21	75.87	58.12	18,812	10,885	7,927	
1991	65.16	63.27	67.14	67.81	78.21	56.88	18,550	10,967	7,583	
1992	65.11	62.96	67.36	68.45	80.63	55.67	18,288	11,040	7,248	
1993	65.05	62.65	67.58	69.15	83.11	54.48	18,026	11,104	6,922	
1994	64.99	62.33	67.79	69.89	85.67	53.32	17,768	11,161	6,607	
1995	64.93	62.00	68.00	70.68	88.30	52.19	17,518	11,215	6,303	
1996	65.34	62.42	68.42	67.89	84.94	49.98	16,461	10,547	5,914	
1997	65.75	62.83	68.82	65.20	81.69	47.87	15,575	9,995	5,580	
1998	66.15	63.23	69.22	62.61	78.57	45.85	14,746	9,477	5,269	
1999	66.54	63.62	69.62	60.12	75.56	43.91	13,971	8,992	4,979	
2000	66.93	64.00	70.00	57.72	72.66	42.04	13,250	8,541	4,709	

# Sample Output: Summary of Vital Rates

Vital Rates								
Year	Per 1000 Pop.			Migration Rate (per 1000 Pop.)			%	
	CBR	CDR	RNI	Total	Internal	International	Growth Rate	
1985	29.09	6.44	22.65	-18.31	.00	-18.31	.43	
1986	28.45	6.46	22.00	-18.24	.00	-18.24	.38	
1987	27.78	6.52	21.26	-18.17	.00	-18.17	.31	
1988	27.08	6.61	20.47	-16.72	.00	-16.72	.38	
1989	26.36	6.70	19.66	-15.26	.00	-15.26	.44	
1990	25.62	6.79	18.84	-13.81	.00	-13.81	.50	
1991	24.88	6.88	18.00	-12.36	.00	-12.36	.56	
1992	24.12	6.97	17.14	-10.93	.00	-10.93	.62	
1993	23.35	7.07	16.27	-9.50	.00	-9.50	.68	
1994	22.58	7.17	15.41	-8.08	.00	-8.08	.73	
1995	21.82	7.27	14.55	-6.69	.00	-6.69	.79	
1996	21.28	7.18	14.09	-5.30	.00	-5.30	.88	
1997	20.74	7.11	13.63	-3.94	.00	-3.94	.97	
1998	20.22	7.04	13.18	-2.60	.00	-2.60	1.06	
1999	19.72	6.98	12.74	-1.29	.00	-1.29	1.15	
2000	19.23	6.92	12.31	.00	.00	.00	1.23	