

**EMIGRATION RATES
BY COUNTRY OF ORIGIN, SEX AND EDUCATIONAL ATTAINMENT LEVELS**

DIOC-E (RELEASE 3.0) 2000

DIOC-E provides information on persons by country of birth for more than 200 countries of origin, which allows calculation of emigration rates by educational attainment for a large number of countries. The emigration rate of a given origin country i in a given year is defined as the share of the native population of country i residing abroad at this time: $m_i = M_i/(M_i+N_i)$, where M_i is the emigrant population from country i living abroad, and N_i is the native non-migrant population of country i .

Most of the time, however, due to the lack of appropriate data, emigration rates are calculated without separating the native-born and foreign-born populations in origin countries, approximating the native non-migrant population by the total resident population of origin countries P_i , i.e. including immigrants. But with DIOC-E it is possible to distinguish foreign-born and native-born persons for many origin countries (those included as destination countries in DIOC-E).

Our final set of estimates comprises two versions of the emigration rates by skill level: one that includes immigrants in the native-born population of the countries of origin, i.e. uses the approximation with the total resident population ($m'_i = M_i/(M_i+P_i)$, see Table 1) and one that makes the distinction between native residents and immigrants ($m_i = M_i/(M_i+N_i)$, see Table 2) which is more accurate but only available for a subset of countries.

Table 1: Emigration rates by country of origin including the total population of the respective country, population 15 and over, circa 2000 (cont.)

Country of birth		Total							Men							Women						
		Emigrant population (thousands)	Primary-educated (%)	Tertiary-educated (%)	Total	Emigration rates (%)			Emigrant population (thousands)	Primary-educated (%)	Tertiary-educated (%)	Total	Emigration rates (%)			Emigrant population (in thousand)	Primary-educated (%)	Tertiary-educated (%)	Total	Emigration rates (%)		
						Primary-educated	Secondary-educated	Tertiary-educated					Primary-educated	Secondary-educated	Tertiary-educated					Primary-educated	Secondary-educated	Tertiary-educated
TWN	Chinese Taipei	463.9	11.5	59.2	2.6	1.2	1.5	6.2	206.7	10.6	61.8	2.3	1.2	5.4	1.1	257.3	12.2	57.1	2.9	1.2	7.3	1.8
TZA	United Republic of Tanzania	161.0	63.5	19.0	0.8	0.6	2.5	19.9	81.1	60.7	21.3	0.9	0.6	18.1	2.1	79.9	66.3	16.6	0.8	0.6	22.6	3.1
UGA	Uganda	336.6	77.7	11.1	2.6	2.2	5.6	28.9	167.7	75.5	12.8	2.7	2.2	24.6	4.5	168.9	79.8	9.4	2.6	2.2	37.9	7.8
URY	Uruguay	230.7	48.1	16.8	8.4	5.6	18.7	11.4	113.0	48.8	16.1	8.7	5.6	13.0	20.9	117.7	47.4	17.4	8.2	5.6	10.3	17.0
USA	United States of America	1,230.8	20.2	41.8	0.5	0.5	0.4	0.8	590.8	20.0	41.6	0.5	0.5	0.8	0.4	640.0	20.3	42.0	0.6	0.5	0.9	0.4
USSR	Former USSR	114.0	24.7	42.6	..	..	..	..	44.1	24.7	44.8	..	..	..	..	69.9	24.7	41.2	..	..	..	..
USSR-ARM	Armenia	518.9	20.3	22.7	18.5	17.8	17.2	23.2	295.3	20.0	22.4	22.2	20.7	26.9	21.1	223.7	20.5	23.1	15.2	15.2	19.8	13.8
USSR-AZE	Azerbaijan	1,035.9	18.1	22.2	15.6	..	..	..	570.9	18.7	20.8	17.6	..	..	..	465.0	17.5	23.9	13.6	..	..	..
USSR-BLR	Belarus	1,498.4	27.8	26.3	15.5	16.2	12.5	23.9	652.1	24.9	28.8	14.8	15.2	24.5	11.7	846.3	30.1	24.3	16.1	17.0	23.4	13.3
USSR-EST	Estonia	115.2	19.0	31.4	9.3	5.5	10.3	11.7	52.3	20.4	30.6	9.4	5.6	13.4	10.0	62.9	17.8	32.0	9.3	5.5	10.6	10.6
USSR-GEO	Georgia	824.4	21.1	26.0	18.2	19.2	16.7	20.5	430.0	20.4	26.3	20.1	21.3	22.6	18.5	394.3	21.9	25.7	16.5	17.5	18.6	15.2
USSR-KAZ	Kazakhstan	3,090.3	21.6	20.3	22.2	41.5	17.7	28.8	1,443.1	21.9	19.6	22.2	48.8	28.8	17.3	1,647.2	21.4	20.9	22.2	36.5	28.7	18.1
USSR-KGZ	Kyrgyzstan	477.5	19.2	21.9	12.9	9.5	12.3	23.7	229.9	20.3	20.1	12.8	10.1	22.7	12.1	247.6	18.3	23.6	13.0	8.8	24.5	12.4
USSR-LTU	Lithuania	286.0	31.7	24.3	9.3	8.5	7.8	15.1	126.9	30.0	25.5	9.0	7.6	16.4	7.7	159.1	33.0	23.3	9.5	9.3	14.1	7.9
USSR-LVA	Latvia	196.5	18.0	32.5	9.1	4.9	8.4	19.0	90.9	19.0	32.3	9.4	5.1	21.3	8.5	105.5	17.3	32.7	8.9	4.8	17.5	8.4
USSR-MDA	Moldova	523.4	23.9	26.2	14.3	19.9	10.0	30.5	262.2	23.5	24.6	15.1	25.9	35.4	10.3	261.2	24.3	27.8	13.5	16.2	27.1	9.8
USSR-RUS	Russian Federation	6,592.8	25.2	37.8	5.2	4.9	3.4	11.2	2,762.4	23.7	36.9	4.8	4.2	10.4	3.3	3,830.4	26.3	38.5	5.5	5.5	11.9	3.4
USSR-TJK	Tajikistan	400.2	19.9	21.5	10.1	16.0	7.4	29.1	226.6	22.4	17.0	11.4	16.5	23.1	9.0	173.6	16.6	27.5	8.8	15.2	37.0	5.9
USSR-TKM	Turkmenistan	193.0	14.8	30.5	6.3	15.2	4.2	15.9	93.8	17.3	26.7	6.3	22.9	12.1	4.3	99.2	12.4	34.1	6.3	10.5	20.6	4.1
USSR-UKR	Ukraine	4,730.8	22.4	26.1	10.5	9.3	13.3	8.0	2,216.2	20.5	28.0	10.8	9.4	9.6	12.3	2,514.7	24.1	24.4	10.2	9.2	6.8	14.3
USSR-UZB	Uzbekistan	1,171.4	19.7	26.5	7.0	30.0	4.6	13.0	577.2	21.5	23.6	7.0	40.5	9.8	4.9	594.2	17.9	29.4	7.0	23.1	17.3	4.4
VAT	Holy See	0.2	21.4	36.8	21.6	..	..	..	0.1	19.8	36.5	15.4	..	..	..	0.1	22.6	37.1	31.6	..	..	..
VCT	Saint Vincent and the Grenadines	43.2	42.5	20.1	35.7	..	..	..	18.6	44.8	17.2	32.5	..	..	..	24.6	40.7	22.3	38.5	..	..	..
VEN	Venezuela (Bolivarian Republic of)	280.7	29.0	34.6	1.7	0.8	2.5	6.3	130.0	29.8	34.7	1.6	0.7	6.5	2.4	150.7	28.4	34.5	1.8	0.8	6.1	2.5
VGB	British Virgin Islands	2.5	25.2	30.4	10.9	..	..	..	0.9	27.1	27.9	8.1	..	..	..	1.6	24.2	31.8	13.7	..	..	..
VIR	United States Virgin Islands	49.3	24.6	25.0	37.7	..	..	..	23.7	28.6	22.1	38.4	..	..	..	25.6	20.8	27.7	37.1	..	..	..
VNM	Viet Nam	1,628.8	42.5	21.7	3.0	1.7	5.1	18.4	808.0	37.8	24.2	3.0	1.5	17.4	5.1	820.7	47.2	19.2	3.0	1.8	19.9	5.1
VUT	Vanuatu	1.9	27.8	27.0	1.7	..	..	..	0.9	19.9	28.3	1.6	..	..	..	1.0	35.0	25.8	1.8	..	..	..
WSM	Samoa	71.6	31.1	8.7	40.6	..	..	..	34.3	32.2	8.5	38.6	..	..	..	37.2	30.0	8.9	42.5	..	..	..
YEM	Yemen	74.0	61.0	14.4	0.8	0.6	1.4	6.0	41.4	54.0	16.4	0.9	0.6	5.8	1.2	32.6	69.8	11.9	0.7	0.5	6.6	1.9
ZAF	South Africa	364.2	14.6	44.8	1.2	0.2	1.7	17.6	175.9	13.2	47.5	1.2	0.2	16.4	1.7	188.3	15.9	42.2	1.2	0.3	19.0	1.8
ZMB	Zambia	72.5	31.0	28.6	1.3	0.6	1.8	19.7	33.1	25.6	33.2	1.2	0.5	16.3	1.4	39.4	35.5	24.7	1.3	0.6	26.0	2.4
ZWE	Zimbabwe	209.2	36.2	21.4	2.8	2.2	2.1	37.4	111.2	40.4	20.8	3.0	3.1	30.6	1.9	98.0	31.4	22.0	2.5	1.6	48.8	2.3

Source: DIOC-E 2000, Barro and Lee (2010), Lutz et al. (2010)

Table 2: Emigration rates by country of origin including only the non-migrant population of the respective country, population 15 and over, circa 2000 (cont.)

Country of birth	Total				Men				Women												
	Emigrant population (thousands)	Primary-educated (%)	Tertiary-educated (%)	Emigration rates (%)			Emigrant population (thousands)	Primary-educated (%)	Tertiary-educated (%)	Emigration rates (%)	Emigrant population (in thousand)	Primary-educated (%)	Tertiary-educated (%)	Emigration rates (%)							
				Total	Primary-educated	Secondary-educated								Tertiary-educated	Total	Primary-educated	Secondary-educated	Tertiary-educated			
TWN Chinese Taipei	463.9	11.5	59.2	206.7	10.6	61.8	257.3	12.2	57.1			
TZA United Republic of Tanzania	161.0	63.5	19.0	0.9	0.6	2.5	20.8	81.1	60.7	21.3	0.9	0.6	2.1	18.8	79.9	66.3	16.6	0.8	0.6	3.1	23.7
UGA Uganda	336.6	77.7	11.1	2.7	2.2	5.7	30.7	167.7	75.5	12.8	2.7	2.2	4.5	26.2	168.9	79.8	9.4	2.7	2.2	7.9	40.2
URY Uruguay	230.7	48.1	16.8	8.7	5.8	19.2	11.9	113.0	48.8	16.1	8.9	5.8	21.5	13.6	117.7	47.4	17.4	8.5	5.8	17.4	10.7
USA United States of America	1,230.8	20.2	41.8	0.6	0.6	0.4	1.0	590.8	20.0	41.6	0.6	0.6	0.4	0.9	640.0	20.3	42.0	0.6	0.7	0.4	1.0
USSR Former USSR	114.0	24.7	42.6	44.1	24.7	44.8	69.9	24.7	41.2
USSR-ARM Armenia	518.9	20.3	22.7	20.3	19.7	18.8	26.0	295.3	20.0	22.4	23.9	22.5	22.6	29.5	223.7	20.5	23.1	17.0	17.0	15.3	22.6
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USSR-LTU Lithuania	286.0	31.7	24.3	9.9	8.9	8.4	16.5	126.9	30.0	25.5	9.6	7.9	8.3	18.0	159.1	33.0	23.3	10.1	9.8	8.5	15.4
USSR-LVA Latvia	196.5	18.0	32.5	11.3	6.0	10.4	24.7	90.9	19.0	32.3	11.3	5.9	10.3	28.2	105.5	17.3	32.7	11.2	6.1	10.4	22.3
USSR-MDA Moldova	523.4	23.9	26.2	262.2	23.5	24.6	261.2	24.3	27.8
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USSR-TJK Tajikistan	400.2	19.9	21.5	226.6	22.4	17.0	173.6	16.6	27.5
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VCT Saint Vincent and the Grenadines	43.2	42.5	20.1	18.6	44.8	17.2	24.6	40.7	22.3
VEN Venezuela (Bolivarian Republic of)	280.7	29.0	34.6	1.8	0.8	2.7	6.8	130.0	29.8	34.7	1.7	0.7	2.6	7.2	150.7	28.4	34.5	2.0	0.9	2.7	6.5
VGB British Virgin Islands	2.5	25.2	30.4	0.9	27.1	27.9	1.6	24.2	31.8
VIR United States Virgin Islands	49.3	24.6	25.0	23.7	28.6	22.1	25.6	20.8	27.7
VNM Viet Nam	1,628.8	42.5	21.7	808.0	37.8	24.2	820.7	47.2	19.2
VUT Vanuatu	1.9	27.8	27.0	0.9	19.9	28.3	1.0	35.0	25.8
WSM Samoa	71.6	31.1	8.7	34.3	32.2	8.5	37.2	30.0	8.9
YEM Yemen	74.0	61.0	14.4	41.4	54.0	16.4	32.6	69.8	11.9
ZAF South Africa	364.2	14.6	44.8	1.2	0.2	1.8	19.7	175.9	13.2	47.5	1.2	0.2	1.7	18.7	188.3	15.9	42.2	1.2	0.3	1.9	20.7
ZMB Zambia	72.5	31.0	28.6	33.1	25.6	33.2	39.4	35.5	24.7
ZWE Zimbabwe	209.2	36.2	21.4	111.2	40.4	20.8	98.0	31.4	22.0

Source: DIOC-E 2000, Barro and Lee (2010), Lutz et al. (2010)