NET PENSION REPLACEMENT RATES

Key results

Whilst the gross replacement rate gives a clear indication of the design of the pension system, the net replacement will matter more to the individual, as it reflects their disposable income in retirement in comparison to when working. For average earners, the net replacement rate from mandatory pension schemes averages 63% across the OECD, which is 10 percentage points higher than the average gross replacement rate. This reflects the higher effective tax and social contribution rates that people pay on their earnings than on their pensions in retirement, mostly due to the progressivity of tax systems, some tax advantages to pensions and the absence of pension contributions on pension benefits. Net replacement rates vary across a large range, from less than 30% in Mexico and the United Kingdom to over 100% in the Netherlands and Turkey for average-wage workers. For low earners (with half of average worker earnings), the average net replacement rate across OECD countries is 73% while it is 59% for high earners (150% of average worker earnings).

The previous indicator of the "Tax treatment of pensions and pensioners" showed the important role that the personal tax and social security contribution systems play in old-age income support. Pensioners often only pay health contributions and receive preferential treatment under the income tax. Tax expenditures and the progressivity of income taxes coupled with gross replacement rates of less than 100% also mean that pensioners have a lower income tax rate than workers. As a result, net replacement rates are generally higher than gross replacement rates.

For average earners, the net replacement rate across the OECD averages 63% for mandatory schemes, from a low of 29% in Mexico and the United Kingdom to a high of about 101% in the Netherlands and 102% in Turkey. Moreover, the pattern of replacement rates across countries is different on a net rather than a gross basis.

On average, for average earners, the net replacement rate is ten percentage points higher than the gross replacement rate. The difference is over 30 percentage points in Hungary and Turkey and around 20 percentage points in Belgium, Portugal, the Slovak Republic and Slovenia. In Hungary, the Slovak Republic and Turkey, pension income is neither liable for taxes or social security contributions, whilst in Belgium and Portugal they are much lower because of either higher tax allowances or much lower contribution levels.

For low earners, the effect of taxes and contributions on net replacement rates is more muted than for workers higher up the earnings scale. This is because low income workers typically pay less in taxes and contributions relative to average earners. In many cases, their retirement incomes are below the level of the standard reliefs in the personal income tax (allowances, credits, etc.). Thus, they are often unable to benefit fully from any additional

concessions granted to pensions or pensioners under their personal income tax.

The difference between gross and net replacement rates for low earners is 9 percentage points on average. Belgium, Germany, Portugal, Slovenia and Turkey have much higher replacement rates for low earners on a net basis than in gross terms. The net replacement rate for workers earning 150% of the average is highest in Turkey. The lowest replacement rates for high earners are found in Ireland, Mexico, New Zealand, Switzerland and the United Kingdom where workers earning 150% of the average will receive pensions that amount to less than one-third of their net earnings when working. In addition to the higher contribution levels in the occupational system for higher earners in Sweden, the net replacement rates are furthermore affected by the fact that pension income and work income are taxed differently and at different rates.

For non-OECD countries, there is very little variation in net replacement rates within countries across the earnings range. However, there is considerable difference between countries, ranging from 13% for average earners in South Africa to 93% in India. As with the gross rates, the EU28 average net replacement rate for average earners is markedly higher than the OECD35 figure, at 72%.

Definition and measurement

The net replacement rate is defined as the individual net pension entitlement divided by net pre-retirement earnings, taking account of personal income taxes and social security contributions paid by workers and pensioners. Otherwise, the definition and measurement of the net replacement rates are the same as for the gross replacement rate. Details of the rules that national tax systems apply to pensioners can be found in the online Country Profiles available at http://oe.cd/paq.

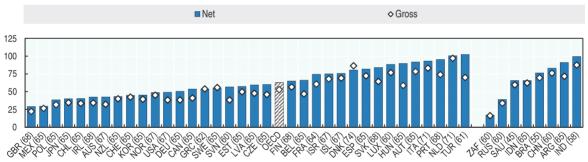
4.8.	Net:	pension	replacement	rates	bν	earnings
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	Individual earnings, multiple of mean for men (women where different)					Individual earnings, multiple of mean for men (women where different)			
	Pension age	0.5	1	1.5		Pension age	0.5	1	1.5
OECD members					OECD members (cont.)				
Australia	67	95.0 (91.8)	42.6 (38.8)	45.4 (41.4)	New Zealand	65	80.7	43.2	30.5
Austria	65	92.2	91.8	90.9	Norway	67	64.8	48.8	41.3
Belgium	65	62.6	66.1	50.1	Poland	65 (60)	37.2 (35.3)	38.6 (34.1)	37.9 (33.8)
Canada	65	62.2	53.4	38.5	Portugal	68	92.9	94.9	93.1
Chile	65	48.3 (45.6)	40.1 (36.3)	40.6 (36.7)	Slovak Republic	68	85.0	83.8	83.5
Czech Republic	65	88.3	60.0	48.7	Slovenia	60	57.3 (60.3)	56.7 (59.2)	54.1 (56.6)
Denmark	74	110.3	80.2	76.2	Spain	65	79.3	81.8	81.7
Estonia	65	73.7	57.4	51.1	Sweden	65	62.4	54.9	67.6
Finland	68	66.9	65.0	65.1	Switzerland	65 (64)	57.4 (56.8)	44.9 (44.5)	31.5 (31.2)
France	64	70.4	74.5	70.3	Turkey	61 (59)	99.1 (95.0)	102.1 (97.9)	105.8 (101.4)
Germany	65	54.7	50.5	49.8	United Kingdom	68	52.1	29.0	20.7
Greece	62	60.7	53.7	54.1	United States	67	59.9	49.1	42.4
Hungary	65	89.6	89.6	89.6	OECD	65.8 (65.5)	73.2 (72.7)	62.9 (62.2)	58.9 (58.2)
Iceland	67	85.5	75.7	77.8					
Ireland	68	70.0	42.3	32.4	Argentina	65 (60)	98.9 (90.3)	91.0 (83.1)	89.3 (81.3)
Israel	67 (64)	100.4 (91.9)	75.1 (67.4)	54.9 (49.3)	Brazil	55 (50)	92.4	76.4 (58.1)	76.4 (58.1)
Italy	71	93.0	93.2	93.8	China	60 (55)	104.4 (89.7)	83.0 (71.3)	77.0 (66.3)
Japan	65	52.6	40.0	35.3	India	58	99.3 (94.4)	99.3 (94.4)	99.3 (94.4)
Korea	65	63.8	45.1	33.7	Indonesia	65	65.4 (60.8)	65.5 (60.9)	66.1 (61.6)
Latvia	65	55.7	59.5	59.0	Russian Federation	60 (55)	53.0 (47.2)	38.8 (32.9)	33.5 (27.7)
Luxembourg	60	98.3	88.4	83.6	Saudi Arabia	45	65.4	65.4	65.4
Mexico	65	35.1	29.6 (27.7)	29.3 (27.5)	South Africa	60	32.1	17.1	11.9
Netherlands	71	105.1	100.6	100.2	EU28	65.9 (65.5)	79.7 (79.6)	70.6 (70.4)	66.8 (66.6)

Source: OECD pension models.

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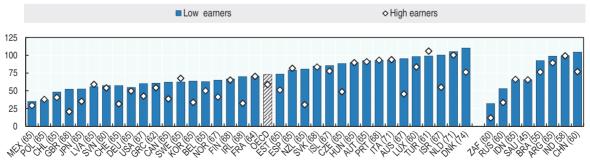
4.9. Net pension replacement rates: Average earners



Source: OECD pension models.

StatLink http://dx.doi.org/10.1787/888933634021

4.10. Net pension replacement rates: Low and high earners



Source: OECD pension models.

StatLink http://dx.doi.org/10.1787/888933634040



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