

Supplemental Online Appendix
Underemployment in the United States and Europe
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Description of U3–U9

The various labor market underutilization variables are explained below. The numbers refer to seasonally adjusted data for July 2018. Numbers in thousands as follows: labor force = 162,245; employment = 155,965; unemployment = 6,280; PTFER = 4,567; discouraged workers = 512, and marginally attached (which includes discouraged workers) = 1,498.

U3 = Total unemployed, as a percentage of the civilian labor force (official unemployment rate) = $6,280/(162,245) = 3.9\%$.

U4 = Total unemployed plus discouraged workers, as a percentage of the civilian labor force plus discouraged workers = $(6,280 + 512)/(162,245 + 512) = 4.2\%$.

U5 = Total unemployed, plus discouraged workers, plus all other persons marginally attached to the labor force, as a percentage of the civilian labor force, plus all persons marginally attached to the labor force = $(6,280 + 1,498)/(162,245 + 1,498) = 4.8\%$.

U6 = Total unemployed, plus all persons marginally attached to the labor force, plus total employed part time for economic reasons, as a percentage of the civilian labor force, plus all persons marginally attached to the labor force = $(6,280 + 1,498 + 4,567)/(162,245 + 1,498) = 7.5\%$.

U7 = PTFER/Employed = $4,567/155,965 = 2.9\%$.

U8 = Discouraged/(labor force + discouraged) = $512/(162,245 + 512) = 0.3\%$.

U9 = Marginally attached–discouraged/(labor force + marginally attached minus discouraged) = $1,498-512/(162,295 + 1,498-512) = 0.9\%$.

Persons marginally attached to the labor force are those who currently are neither working nor looking for work but indicate that they want and are available for a job and have looked for work sometime in the past 12 months. Discouraged workers, a subset of the marginally attached, have given a job–market–related reason for not currently looking for work. Persons employed part time for economic reasons are those who want and are available for full-time work but have had to settle for a part-time schedule. See <https://www.bls.gov/news.release/empst.t15.htm>.

Table A.1. Increase in Weekly Hours Desired by Those Who Want More Hours (Millions)

	AU	BE	CH	CY	DE	DK	EE	ES	FI	FR	GR	HR	HU
2001	2.6	2.9	7.5	0.6		2.1	1.4	40.2	9.2		8.1		10.0
2002	1.2	2.5	8.5	0.7		1.2	1.1	33.8	8.8		8.3	3.0	8.1
2003	1.2	2.8	7.7	0.8		2.2	1.1	45.5	9.2	53.7	8.2	3.2	10.2
2004	2.2	2.9	7.7	0.9		2.5	0.9	39.1	8.2	58.7	8.0	2.0	9.5
2005	8.3	3.5	7.5	0.7	34.8	1.9	0.6	24.8	7.0	61.0	8.0	1.8	8.7
2006	8.9	3.7	7.6	0.7	41.9	2.8	0.6	24.0	9.2	68.1	8.5	1.8	8.3
2007	9.5	4.0	8.8	0.7	39.2	6.9	0.5	23.2	7.5	73.0	8.8	1.6	8.7
2008	9.6	3.8	8.3	0.9	91.8	7.1	0.7	28.1	7.4	73.1	9.7	1.3	7.2
2009	11.1	3.9	8.8	1.1	99.8	6.8	1.3	33.8	7.7	73.3	11.1	1.4	7.1
2010	10.8	3.9	7.1	1.0	90.3	6.2	1.0	33.3	7.2	69.7	9.8	1.7	7.0
2011	10.3	4.6	7.3	1.1	82.3	5.9	0.9	35.7	7.0	67.9	10.3	1.9	8.3
2012	11.0	4.9	7.7	1.2	78.0	6.0	1.1	41.7	7.5	69.2	11.5	1.7	10.8
2013	11.0	5.0	7.7	1.6	75.0	6.2	1.2	43.4	7.6	85.3	11.7	2.0	12.3
2014	11.3	4.8	8.5	1.8	70.4	6.1	1.3	41.2	7.9	83.8	12.5	2.2	12.3
2015	12.0	4.8	8.4	1.7	66.9	5.7	1.3	36.8	8.0	82.2	13.0	2.7	11.8
2016	12.3	4.7	8.2	1.5	63.4	8.2	1.1	33.4	7.7	77.8	12.7	1.9	9.9
	IE	IS	IT	LT	LU	MT	NL	NO	PL	PT	RO	SE	UK
2001	1.3	0.4		2.3	0.1		21.8	0.9	37.3	7.4		18.6	24.7
2002	1.7	0.4	6.2	2.1	0.1		22.4	0.9	38.3	8.9	19.0	17.2	24.5
2003	1.8	0.3	7.2	2.4	0.2		20.6	1.5	40.4	10.9	18.2	19.3	24.7
2004	2.3	0.2	14.9	1.9	0.2		23.2	1.6	38.2	6.7	13.9	18.0	24.0
2005	2.4	0.2	11.4	1.8	0.2		16.8	1.4	37.3	7.3	14.9	14.5	24.6
2006	2.5	0.2	11.2	1.7	0.3		19.7	4.7	36.6	7.9	13.5	15.2	26.8
2007	2.1	0.2	10.4	1.5	0.3		20.1	4.8	34.7	8.7	12.6	15.7	28.0
2008	2.8		12.0	1.2	0.3		20.7	5.2	33.6	9.6	12.4	15.6	30.0
2009	4.8		13.0	1.4	0.4	0.4	21.9	5.3	34.7	8.6	12.8	16.6	36.2
2010	4.5		12.5	1.4	0.3	0.5	19.3	4.9	33.9	7.8	12.8	15.1	39.6
2011	5.0		11.6	1.4	0.3	0.5	17.9	4.9	33.9	19.5	11.8	15.4	40.9
2012	5.4		16.3	1.5	0.4	0.6	19.0	5.2	40.3	20.5	11.4	16.1	43.1
2013	5.6		16.6	1.5	0.4	0.5	21.5	5.8	44.2	19.7	10.6	16.9	43.8
2014	5.1	0.5	18.0	1.5	0.5	0.6	20.8	5.3	41.9	20.3	11.4	17.3	44.4
2015	4.8	0.4	17.3	1.4	0.5	0.6	21.4	5.6	36.4	18.2	11.3	17.4	42.0
2016	4.3	0.4	16.7	1.3	0.5	0.5	19.8	5.5	33.0	18.4	9.7	15.7	39.7

Table A.2. Reduction in Weekly Hours Desired by Those Who Want Fewer Hours (Millions)

	AU	BE	CH	CY	DE	DK	EE	ES	FI	FR	GR	HR	HU
2001	-4.4	-0.5	-15.6	-0.7		-0.4	-1.2	-3.2	-6.1		-10.3		-4.7
2002	-1.7	-0.5	-14.7	-0.8		-0.1	-1.0	-1.5	-6.7		-11.2	-0.3	-4.8
2003	-1.5	-0.2	-15.2	-0.9		-0.4	-1.0	-1.6	-6.1	-15.4	-11.2	-0.5	-4.7
2004	0.0	-0.4	-15.3	-1.0		-0.4	-1.0	-4.3	-6.4	-15.4	-11.9	0.0	-5.4
2005	-8.7	-0.2	-15.2	-0.9	-3.4	-0.5	-0.8	-16.3	-6.6	-13.4	-10.3	0.0	-4.0
2006	-8.8	-0.2	-15.6	-0.8	-1.4	-0.5	-0.9	-19.2	-6.3	-15.3	-9.9	0.0	-3.4
2007	-8.8	-0.1	-15.8	-0.8	-1.0	-6.8	-0.8	-18.5	-6.7	-15.6	-9.3	0.0	-3.4
2008	-8.6	-0.1	-16.5	-0.4	-53.2	-6.5	-0.6	-13.7	-5.6	-15.4	-8.9	0.0	-3.3
2009	-8.0	-0.1	-15.7	-0.4	-42.9	-5.4	-0.5	-9.5	-4.6	-14.9	-8.6	0.0	-2.8
2010	-8.6	-0.1	-18.6	-0.4	-41.7	-4.9	-0.7	-9.0	-4.5	-15.7	-8.2	0.0	-2.8
2011	-8.6	-0.1	-18.7	-0.3	-39.8	-5.0	-0.7	-8.3	-4.9	-15.8	-7.1	0.0	-2.5
2012	-8.3	-0.1	-18.0	-0.3	-38.5	-4.7	-0.7	-7.1	-4.8	-13.7	-6.4	0.0	-2.1
2013	-8.1	-0.1	-19.0	-0.3	-36.7	-4.7	-0.7	-6.9	-4.8	-16.4	-6.4	0.0	-2.1
2014	-8.0	-0.1	-18.9	-0.3	-36.5	-4.4	-0.7	-6.2	-4.6	-16.8	-6.3	0.0	-2.1
2015	-7.7	-0.1	-19.4	-0.3	-35.4	-4.3	-0.7	-6.4	-4.3	-15.9	-6.5	0.0	-2.2
2016	-8.3	0.0	-20.1	-0.3	-37.4	-7.8	-0.9	-7.2	-5.0	-17.4	-6.6	0.0	-2.7
	IE	IS	IT	LT	LU	MT	NL	NO	PL	PT	RO	SE	UK
2001	-0.6	-0.4		-2.8	-0.3		-13.6	-0.1	-39.2	-3.2		-5.2	-31.2
2002	-0.9	-0.4		-2.3	-0.3		-14.2	-0.1	-36.2	-2.6	-15.3	-5.4	-31.6
2003	-0.8	-0.2		-1.8	-0.1		-12.8	-0.1	-30.0	-1.9	-14.7	-5.0	-32.6
2004	-1.1	-0.2	-17.3	-1.7	-0.2		-14.3	-0.1	-29.5	-2.5	-14.7	-5.2	-32.1
2005	-1.4	-0.2	-10.2	-1.5	-0.2		-15.3	-0.1	-26.5	-1.7	-10.9	-8.5	-30.4
2006	-1.3	-0.2	-10.6	-1.4	-0.2		-17.2	-5.1	-27.8	-2.0	-9.4	-8.2	-29.9
2007	-1.4	-0.2	-9.9	-1.5	-0.2		-17.7	-4.9	-28.1	-2.2	-8.9	-7.8	-30.8
2008	-1.0	0.0	-8.8	-1.5	-0.2		-20.4	-5.3	-26.1	-2.0	-8.2	-8.0	-29.2
2009	-0.7	0.0	-5.5	-1.0	-0.6	-0.1	-20.3	-4.6	-24.0	-1.8	-7.0	-7.5	-27.2
2010	-0.6	0.0	-4.4	-0.9	-0.6	-0.1	-17.9	-4.5	-22.7	-1.7	-6.0	-8.2	-28.8
2011	-0.7	0.0	-3.9	-0.8	-0.6	-0.1	-17.0	-4.5	-21.0	-1.9	-6.7	-8.0	-27.5
2012	-0.8	0.0	-3.7	-0.8	-0.7	-0.1	-16.9	-4.8	-20.5	-1.6	-7.0	-8.0	-28.0
2013	-1.0	0.0	-3.7	-0.8	-0.7	-0.1	-17.6	-4.8	-19.0	-1.8	-6.7	-8.3	-28.2
2014	-0.9	-0.2	-3.9	-0.7	-0.8	-0.1	-18.1	-4.5	-18.9	-2.1	-5.5	-8.4	-30.4
2015	-0.8	-0.2	-4.2	-0.9	-1.1	-0.1	-18.3	-4.7	-18.9	-2.2	-5.1	-8.5	-32.0
2016	-0.9	-0.2	-4.8	-1.0	-0.9	-0.1	-19.3	-4.3	-20.0	-2.2	-4.9	-8.5	-34.2

Notes: Key to Country Codes: AU = Austria; BE = Belgium, CH = Switzerland, CY = Cyprus, DE = Germany, DK = Denmark, EE = Estonia, ES = Spain, FI = Finland, FR = France, GR = Greece, HR = Croatia, HU = Hungary, IE = Ireland, IS = Iceland, IT = Italy, LT = Latvia, LU = Luxembourg, MT = Malta, NL = Netherlands, NO = Norway, PL = Poland, PT = Portugal, RO = Romania, SE = Sweden, UK = United Kingdom.

Table A.3. ILO Unemployment Rates

GEO/TIME	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Austria	4.0	4.9	4.8	5.8	5.6	5.3	4.9	4.1	5.3	4.8	4.6	4.9	5.4	5.6	5.7	6.0	5.5
Belgium	6.2	6.9	7.7	7.4	8.5	8.3	7.5	7.0	7.9	8.3	7.2	7.6	8.4	8.5	8.5	7.8	7.1
Switzerland	2.5	2.9	4.1	4.3	4.5	4.0	3.7	3.4	4.1	4.8	4.4	4.5	4.8	4.9	4.8	5.0	4.8
Cyprus	4.0	3.3	4.2	4.4	5.3	4.6	3.9	3.7	5.4	6.3	7.9	11.9	15.9	16.1	15.0	13.0	11.1
Germany	7.8	8.5	9.8	10.7	11.2	10.3	8.7	7.5	7.8	7.0	5.8	5.4	5.2	5.0	4.6	4.1	3.8
Denmark	4.2	4.3	5.4	5.2	4.8	3.9	3.8	3.4	6.0	7.5	7.6	7.5	7.0	6.6	6.2	6.2	5.7
Estonia	13.1	10.0	11.3	10.2	8.0	5.9	4.6	5.5	13.5	16.7	12.3	10.0	8.6	7.4	6.2	6.8	5.8
Spain	10.4	11.2	11.3	11.1	9.2	8.5	8.2	11.3	17.9	19.9	21.4	24.8	26.1	24.5	22.1	19.6	17.2
Finland	10.3	10.4	10.5	10.4	8.4	7.7	6.9	6.4	8.2	8.4	7.8	7.7	8.2	8.7	9.4	8.8	8.6
France	8.6	8.7	8.3	8.9	8.5	8.5	7.7	7.1	8.7	8.9	8.8	9.4	9.9	10.3	10.4	10.1	9.4
Greece	10.5	10.0	9.4	10.3	10.0	9.0	8.4	7.8	9.6	12.7	17.9	24.5	27.5	26.5	24.9	23.6	21.5
Croatia		15.1	14.0	13.7	12.7	11.2	9.9	8.6	9.2	11.7	13.7	16.0	17.3	17.3	16.2	13.1	11.2
Hungary	5.7	5.6	5.8	5.8	7.2	7.5	7.4	7.8	10.0	11.2	11.0	11.0	10.2	7.7	6.8	5.1	4.2
Ireland	3.7	4.2	4.5	4.5	4.4	4.4	5.0	6.8	12.6	14.6	15.4	15.5	13.8	11.9	9.9	8.4	6.7
Iceland	1.9	3.0	4.0	4.0	2.5	2.8	2.3	2.9	7.2	7.6	7.0	6.0	5.4	4.9	4.0	3.0	2.7
Italy	9.6	9.2	8.9	7.9	7.7	6.8	6.1	6.7	7.8	8.4	8.4	10.7	12.2	12.7	11.9	11.7	11.2
Latvia	13.9	13.8	12.1	11.7	10.0	7.0	6.1	7.7	17.5	19.5	16.2	15.0	11.9	10.8	9.9	9.6	8.7
Lithuania	1.8	2.6	3.7	5.1	4.5	4.7	4.1	5.1	5.1	4.4	4.9	5.1	5.9	5.9	6.7	6.3	5.5
Malta	7.1	6.9	7.5	7.3	6.9	6.8	6.5	6.0	6.9	6.9	6.4	6.3	6.4	5.8	5.4	4.7	4.0
Netherlands	2.1	2.6	3.6	4.7	4.7	3.9	3.2	2.8	3.4	4.5	5.0	5.8	7.3	7.4	6.9	6.0	4.9
Norway	3.7	4.0	4.2	4.3	4.4	3.4	2.5	2.5	3.1	3.5	3.2	3.1	3.4	3.5	4.3	4.7	4.2
Poland	18.4	20.0	19.4	19.1	17.8	13.9	9.6	7.1	8.2	9.7	9.7	10.1	10.3	9.0	7.5	6.2	4.9
Portugal	3.9	4.6	6.2	6.4	7.7	7.8	8.1	7.7	9.6	11.0	12.9	15.8	16.4	14.1	12.6	11.2	9.0
Romania	6.7	8.3	6.9	7.7	7.2	7.3	6.4	5.8	6.9	7.0	7.2	6.8	7.1	6.8	6.8	5.9	4.9
Sweden	4.7	5.0	5.6	6.7	7.8	7.1	6.2	6.2	8.4	8.6	7.8	8.0	8.1	8.0	7.4	7.0	6.7
UK	4.7	5.0	4.8	4.6	4.8	5.4	5.3	5.6	7.6	7.8	8.1	7.9	7.5	6.1	5.3	4.8	4.4

Source: Eurostat, https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Unemployment_statistics.

Table A.4. State Level *Weekly Wage Equations* with Various Measures of Labor Market Slack, 1980–2017, with Robust Standard Errors

a) Unemployment rate and involuntary part time

	1980–2017	1980–2007	2008–2017	1980–2017	1980–2007	2008–2017
Log W_{t-1}	.7346 (28.34)	.7263 (27.06)	.3257 (5.84)	.7125 (24.38)	.7049 (25.55)	.3199 (6.07)
Log $U3_t$	-.0312 (7.47)	-.0295 (6.62)	-.0377 (2.81)			
Log PTFER				-.0307 (8.21)	-.0309 (7.90)	-.0338 (4.15)
N	1938	1428	510	1938	1428	510
R^2 within	.9971	.9959	.9237	.9972	.9960	.9250
R^2 between	.9518	.9576	.5553	.9696	.9664	.6595
R^2 overall	.9927	.9898	.6412	.9941	.9908	.7077

b) Using alternative measure U6–U9

	2003–2017	2003–2017	2003–2017	2003–2017	2008–2017	2008–2017	2008–2017	2008–2017
Log W_{t-1}	.4701 (11.62)	.4638 (11.83)	.4641 (11.98)	.4632 (11.91)	.3107 (5.84)	.3036 (5.99)	.3031 (5.93)	.3010 (5.78)
Log $U6_t$	-.0490 (5.40)	-.0145 (0.90)			-.0550 (3.47)			
Log $U7_t$		-.0335 (2.94)	-.0435 (6.49)	-.0373 (5.08)		-.0478 (4.04)	-.0410 (3.32)	-.0427 (3.39)
Log $U3_t$				-.0113 (1.35)			-.0144 (1.03)	-.0165 (1.29)
Log $U8_t$				-.0006 (0.34)				.0029 (1.88)
Log $U9_t$.0030 (0.69)				.0014 (0.25)
N	765	765	765	765	510	510	510	510
R^2 within	.9710	.9714	.9714	.9714	.9255	.9264	.9267	.9270
R^2 between	.8791	.9014	.9071	.8971	.5594	.6587	.5986	.6037
R^2 overall	.9135	.9249	.9280	.9927	.6403	.7069	.6684	.6716

c) Weekly wages and change in the home ownership rate, with robust standard errors

	1980–2017	1980–2007	2008–2017	2003–2017	2008–2017	2008–2017
Log W_{t-1}	.6513 (17.56)	.6011 (12.88)	.3212 (6.09)	.4670 (12.09)	.3105 (6.09)	.3108 (6.15)
Log $U3_t$	-.0086 (1.67)	-.0022 (0.36)	-.0255 (1.83)	-.0104 (1.15)	-.0157 (1.12)	
Log PTFER	-.0252 (5.24)	-.0236 (4.23)	-.0246 (2.96)			

Log $U7_t$				−.0363 (4.90)	−.0384 (3.17)	−.0457 (3.93)
Log Home $_t$ −Log Home $_{t-1}$.1270 (3.49)	.1002 (2.44)	.1724 (2.90)	.1314 (2.87)	.1759 (3.15)	.1728 (3.01)
N	1,683	1,173	510	765	510	510
R^2 within	.9960	.9939	.9276	.9718	.9283	.9280
R^2 between	.9578	.9504	.5382	.9001	.5824	.6485
R^2 overall	.9894	.9810	.6288	.9245	.6579	.7005

Notes: All equations include a full set of year and state effects plus 21 personal controls—15 education variables, age, gender, and four race variables. U3 is the unemployment rate. PTFER is part time for economic reasons as a percentage of employment calculated from the MORG files (weighted using variable = weight). U7 is involuntary PT as a percentage of the civilian labor force. U8 is discouraged workers as a percentage of the civilian labor force U9 is all marginally attached as a percentage of the civilian labor force.

Table A.5. Additional Information Required to Justify the Assumption that the Unemployed Would Work the Same Hours on Average as the Currently Employed

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. regress hwusual sex age agesq i.ieduc i.refyear i.country if age > 16 &
ilostat == 1 & ieduc != 9
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Source	SS	df	MS	Number of obs	=	17014591
Model	377615274	35	10789007.8	$F(35, 17014555)$	=	76634.68
Residual	2.3954e+09	17014555	140.784922	Prob > F	=	0.0000
				R-squared	=	0.1362
				Adj R-squared	=	0.1362
Total	2.7730e+09	17014590	162.978248	Root MSE	=	11.865

hwusual	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
sex	-6.111863	.0058159	-1050.89	0.000	-6.123262	-6.100464
age	1.021285	.0013863	736.67	0.000	1.018568	1.024002
agesq	-.0118742	.0000163	-730.51	0.000	-.011906	-.0118423
ieduc						
L	-1.59341	.0081365	-195.84	0.000	-1.609357	-1.577462
M	-.3053178	.0072921	-41.87	0.000	-.3196101	-.2910254
refyear						
1999	-.1977689	.0264708	-7.47	0.000	-.2496507	-.1458871
2000	-.3507154	.0263731	-13.30	0.000	-.4024057	-.2990251
2001	-.4200781	.0258516	-16.25	0.000	-.4707464	-.3694098
2002	-.4890754	.0257804	-18.97	0.000	-.5396042	-.4385467
2003	.2434503	.0263354	9.24	0.000	.1918339	.2950668
2004	.0076015	.0261762	0.29	0.772	-.043703	.0589059
2005	-.4284576	.0209761	-20.43	0.000	-.46957	-.3873453
2006	-.3226952	.0217842	-14.81	0.000	-.3653914	-.2799989
2007	-.3196307	.0217277	-14.71	0.000	-.3622163	-.2770451
2008	-.1346552	.0217341	-6.20	0.000	-.1772532	-.0920571
2009	-.3237646	.0217788	-14.87	0.000	-.3664503	-.2810788
2010	-.4821226	.0216578	-22.26	0.000	-.5245711	-.4396742
2011	-.5479243	.0217237	-25.22	0.000	-.590502	-.5053466
2012	-.6462469	.0218482	-29.58	0.000	-.6890686	-.6034252
2013	-.7024571	.0219505	-32.00	0.000	-.7454793	-.6594349
2014	-.7653292	.0219525	-34.86	0.000	-.8083554	-.722303
2015	-.7817403	.0219754	-35.57	0.000	-.8248112	-.7386693
2016	-.6445245	.0219963	-29.30	0.000	-.6876365	-.6014126
icountry						
BE	-4.403054	.0186288	-236.36	0.000	-4.439566	-4.366542
DK	-3.744345	.0180689	-207.23	0.000	-3.779759	-3.70893
ES	.162434	.0156645	10.37	0.000	.1317322	.1931359
FI	.0424858	.021859	1.94	0.052	-.0003572	.0853287
FR	-1.032941	.0130195	-79.34	0.000	-1.058458	-1.007423
GR	4.549584	.0146877	309.76	0.000	4.520797	4.578371
IT	-.6106633	.0125912	-48.50	0.000	-.6353416	-.585985
NL	-7.101879	.0156424	-454.01	0.000	-7.132538	-7.071221
NO	-3.529512	.0238674	-147.88	0.000	-3.576292	-3.482733
PT	2.287623	.0163103	140.26	0.000	2.255655	2.31959
RO	-4.472456	.0146439	-305.42	0.000	-4.501158	-4.443755
SE	-.9454173	.0134838	-70.12	0.000	-.9718449	-.9189896
_cons	27.4283	.0367086	747.19	0.000	27.35635	27.50025

Hours of the unemployed calculated from the predicted values equals 36.06

```
predict hours_unemp if ilostat == 2
(option xb assumed; fitted values)
(49,348,771 missing values generated)
```

```
. sum hours_unemp, det
```

Fitted values				

	Percentiles	Smallest		
1%	24.66239	.1434651		
5%	27.73668	.341234		
10%	30.06632	.6011819	Obs	1,648,475
25%	33.00655	6.255328	Sum of Wgt.	1,648,475
50%	35.97066		Mean	36.06221
		Largest	Std. Dev.	4.691073
75%	39.68262	48.05743		
90%	41.61391	48.05743	Variance	22.00616
95%	43.42683	48.05743	Skewness	-.2106698
99%	46.36205	48.05743	Kurtosis	2.940897

Usual hours of current workers = 36.16

```
. sum hwusual, det
```

HWUSUAL				

	Percentiles	Smallest		
1%	0	0		
5%	8	0		
10%	18	0	Obs	22,030,676
25%	34	0	Sum of Wgt.	22030676
50%	40		Mean	36.16291
		Largest	Std. Dev.	13.11152
75%	40	80		
90%	50	80	Variance	171.9119
95%	55	80	Skewness	-.5141681
99%	70	80	Kurtosis	4.778626

Figure A.1. Annual Growth in Weekly Earnings of Production and Nonsupervisory Workers and U7, 1965–2018

