

Living Alone in the United Kingdom, 2009-10 Data from Understanding Society

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Table 3 includes a chi-squared test. Appendix 1 describes the calculations.

Data from Understanding Society can be accessed through the UK Data Service, see Persistent Identifier:

<http://dx.doi.org/10.5255/UKDA-SN-6614-3>

The citation for these data is: University of Essex. Institute for Social and Economic Research and National Centre for Social Research, *Understanding Society: Wave 1, 2009-2010*, Data Archive [distributor], February 2012. SN: 6614 , <http://dx.doi.org/10.5255/UKDA-SN-6614-3>

About this resource

'The Sociology of Personal Life: Living Alone' was developed by the ESSTED team in collaboration with Professor Sue Heath the convenor of The Sociology of Personal Life at the University of Manchester.

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You can find details of the ESSTED project and others resources on the project website

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The Sociology of Personal Life: Living Alone

Table 1: Household sizes in the United Kingdom 2009-10

household size, excluding absent members	Frequency	Percent
1	6028	15.1
2	14320	35.8
3	7842	19.6
4	7254	18.1
5	3072	7.7
6	967	2.4
7	277	.7
8	117	.3
9	68	.2
10	28	.1
11	6	.0
12	5	.0
13	0	.0
14	2	.0
Total	39986	100.0

Table compiled by Jo Wathan.

Coverage: United Kingdom. Weighted as a nationally representative sample.

Source: Understanding Society data, 2010.

The citation for these data is:

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Table 2: Those living alone by age group and gender

age group: 5 year intervals % within sex	sex		
	male	female	Total
15-19	0.60%	0.70%	0.60%
20-24	4.40%	2.30%	3.20%
25-29	6.90%	3.30%	4.90%
30-34	6.70%	3.40%	4.80%
35-39	6.70%	2.80%	4.50%
40-44	8.70%	3.70%	5.90%
45-49	9.80%	4.30%	6.80%
50-54	8.50%	5.30%	6.70%
55-59	8.00%	7.30%	7.60%
60-64	8.50%	9.80%	9.20%
65-69	6.70%	9.20%	8.10%
70 years old	24.50%	47.90%	37.50%
Total	100.00%	100.00%	100.00%

Table compiled by Jo Wathan.

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**Table 3a: Talking regularly with neighbours
United Kingdom 2009-10**

			Others in household	Lives alone	Total
Talk regularly to neighbours	missing	Count	828	310	1138
		Column %	2.4%	5.1%	2.8%
	strongly agree	Count	6229	1335	7564
		Column %	18.3%	22.2%	18.9%
	agree	Count	15774	2709	18483
		Column %	46.5%	44.9%	46.2%
	neither agree nor disagree	Count	6442	900	7342
		Column %	19.0%	14.9%	18.4%
	disagree	Count	3486	580	4066
		Column %	10.30%	9.60%	10.20%
	strongly disagree	Count	1199	193	1392
		Column %	3.5%	3.2%	3.5%
	Total	Count	33958	6027	39985
		Column %	100%	100%	100%

Table compiled by Jo Wathan.

Coverage: United Kingdom. Weighted as a nationally representative sample.

Source: Understanding Society data, 2010.

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Missing values for 'Talk regularly with neighbours' are included as a discrete category in Table 3a and combined with neither agree nor disagree in Table 3b.

Table 3b: Talking regularly with neighbours
United Kingdom 2009-10
 (missing category combined with neither agree nor disagree)

			Others in household	Lives alone	Total
Talk regularly to neighbours	strongly agree	Count	6229	1335	7564
		Column %	18.3%	22.2%	18.9%
	agree	Count	15774	2709	18483
		Column %	46.5%	44.9%	46.2%
	Neither agree nor disagree and Missing	Count	7270	1210	8480
		Column %	21.4%	20.1%	21.2%
	disagree	Count	3486	580	4066
		Column %	10.3%	9.6%	10.2%
	strongly disagree	Count	1199	193	1392
		Column %	3.5%	3.2%	3.5%
	Total	Count	33958	6027	39985
		Column %	100%	100%	100%

Table compiled by Jo Wathan.

Coverage: United Kingdom. Weighted as a nationally representative sample.

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Table 4 Living Alone and Life Satisfaction - UK 2009-10

			Lives alone or not		
			others in hhd	lives alone	Total
satisfaction with life overall	missing	Count Column %	695 2.0%	223 3.7%	918 2.3%
	completely dissatisfied	Count Column %	714 2.10%	243 4.00%	957 2.40%
	mostly dissatisfied	Count Column %	1322 3.9%	295 4.9%	1617 4.0%
	somewhat dissatisfied	Count Column %	2252 6.60%	487 8.10%	2739 6.80%
	neither satisfied or dissatisfied	Count Column %	3136 9.2%	601 10.0%	3737 9.3%
	somewhat satisfied	Count Column %	5845 17.20%	1003 16.60%	6848 17.10%
	mostly satisfied	Count Column %	15323 45.1%	2287 37.9%	17610 44.0%
	completely satisfied	Count Column %	4673 13.8%	889 14.7%	5562 13.9%
	Total	Count Column %	33960 100%	6028 100%	39988 100%

Table compiled by Jo Wathan.

Coverage: United Kingdom. Weighted as a nationally representative sample.

Source: Understanding Society data, 2010.

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Table 5: Life Satisfaction by Age Group Among Those Living Alone- UK 2009-10

		Age - 3 groups				Total
		16-29	30-59	60+		
satisfaction with life overall	missing	Count	8	49	166	223
		Column %	1.5%	2.2%	5.0%	3.7%
	completely dissatisfied	Count	18	123	102	243
		Column %	3.4%	5.6%	3.1%	4.0%
	mostly dissatisfied	Count	27	153	115	295
		Column %	5.1%	7.0%	3.5%	4.9%
	somewhat dissatisfied	Count	41	285	161	487
		Column %	7.7%	13.0%	4.9%	8.1%
	neither satisfied or dissatisfied	Count	56	265	279	600
Column %		10.50%	12.10%	8.40%	10.00%	
somewhat satisfied	Count	116	402	485	1003	
	Column %	21.8%	18.3%	14.7%	16.6%	
mostly satisfied	Count	222	750	1316	2288	
	Column %	41.80%	34.20%	39.80%	38.00%	
completely satisfied	Count	43	164	682	889	
	Column %	8.1%	7.5%	20.6%	14.7%	
Total	Count	531	2191	3306	6028	
	Column %	100%	100%	100%	100%	

Table compiled by Jo Wathan.

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Appendix 2: chi-square test for table

Desired p is <0.05

p = 1.518E-10 This is .0000000001517...

Chisquared is the sum of all 10 differences, each squared, each divided by the E of that cell.

Chi-squared test value is 51.08 (p<0.001)

		Observed			Expected Range of Frequencies			
		others in hhd	lives alone	OVERALL	others in hhd	lives alone	OVERALL	
talk regular	strongly agr	6229	1335	7564	strongly ag	6025.804	1566.678	7564
	agree	15774	2709	18483	agree	15851.35	2634.156	18483
	Neither agre	7270	1210	8480	Neither agr	7338.849	1145.436	8480
	disagree	3486	580	4066	disagree	3530.972	547.5565	4066
	strongly disa	1199	193	1392	strongly dis	1205.439	177.4047	1392
	OVERALL	33958	6027	39985	OVERALL	33952.41	6071.231	39985
		1	1	1				

(O - E)^2	(O - E)^2 / E
41288.618	6.851968
5982.7428	0.377428
4740.217	0.645907
2022.5245	0.572795
41.455513	0.03439
SUM OF THESE:	
	51.80182

Remarks

Syntax

CHITEST(actual_range,expected_range)

Actual_range is the range of data that contains observations to test against expected values.

Expected_range is the range of data that contains the ratio of the product of row totals and column totals to the grand total.

If actual_range and expected_range have a different number of data points, CHITEST returns the #N/A error value.

The ?2 test first calculates a ?2 statistic using the formula:

$$\chi^2 = \sum_{i=1}^r \sum_{j=1}^c \frac{(A_{ij} - E_{ij})^2}{E_{ij}}$$

where: Aij = actual frequency in the i-th row, j-th column
 Eij = expected frequency in the i-th row, j-th column
 r = number of rows