

**SHCS 2002 NATIONAL REPORT  
REVISED FIGURES  
Chapter 11 – Energy Efficiency and Fuel Poverty**

**Date of Issue –1 April 2004**

On 9 March 2004 Communities Scotland issued a revision to the headline figures for NHER and Fuel Poverty housing due to a technical error affecting the original estimates. Users were advised to stop using Chapter 11 of the report pending a further release of all the revised tables.

This document provides these revised estimates. It is being published via the web ONLY. These tables will also be included in the SHCS 2002 Fuel Poverty Follow-up Report, due to be published in the week beginning 12 April 2004. Print copies will be sent to all who received the original publication.

Tables 11.8 -11.18 were not affected by the error, but are included here for completeness.

**If you have any queries about this statistics release please contact the House Condition Surveys team on 0131 479 5263, email [shcs@communities.scot.nhs.uk](mailto:shcs@communities.scot.nhs.uk).**

**Table 11.1**  
**Frequency distribution of NHER**

NHER category	000s	%
0	13†	1
1	50	2
2	113	5
3	187	9
4	292	14
5	397	18
6	434	20
7	385	18
8	218	10
9	69	3
10	7†	0

**Table 11.2**  
**Median and banded NHER by key dwelling characteristics**

	NHER rating – banded groups						Median NHER
	Poor		Moderate		Good		
	000s	% within category	000s	% within category	000s	% within category	
Pre-1919	84	19	318	73	36	8	4
1919-1944	18	6	190	62	98	32	6
1945-1964	31	6	295	56	200	38	6
1965-1974	29	8	231	65	97	27	5
1975-1982	7†	4	126	68	52	28	6
1983-1990	4†	3	77	59	50	38	6
1991-1997	*	1	55	41	78	58	7
post-1997	*	1	18	21	67	78	7
Detached	46	11	283	69	78	19	5
Semi-detached	31	7	328	73	93	21	5
Terraced houses	22	5	253	52	214	44	6
Tenement	55	11	266	54	172	35	6
4-in-block	10†	4	106	47	112	49	6
Flat in converted building	4†	11	31	81	*	7	4
Tower/Slab	8†	13	42	72	9	15	4
Rural	59	17	233	68	51	15	4
Urban	117	6	1,076	59	628	34	6

**Table 11.3**  
**Median and banded NHER by key household characteristics**

	NHER rating – banded groups						Median NHER
	Poor		Moderate		Good		
	000s	% within category	000s	% within category	000s	% within category	
Owner occupier	97	7	881	65	378	28	5
LA/Other public	33	6	267	52	218	42	6
HA/Housing coop	7†	5	62	49	58	46	6
Private renter	40	24	100	61	25	15	4
Single adult	46	14	187	56	99	30	5
Small adult	29	8	229	62	111	30	6
Single parent	9†	7	66	51	55	42	6
Small family	14	4	184	59	113	36	6
Large family	8†	5	95	61	53	34	6
Large adult	13	6	142	65	62	29	6
Older smaller	24	8	204	65	84	27	5
Single pensioner	34	10	201	60	102	30	5
< 100	17	14	67	57	34	29	5
100 -199.99	57	10	315	56	190	34	6
200 -299.99	38	8	272	59	154	33	6
300 -399.99	27	8	196	59	111	33	6
400 -499.99	16	6	159	66	66	27	6
500 -699.99	14	5	179	66	77	28	6
700+	7†	4	113	69	45	27	5

**Table 11.4**  
**Median NHER by type and age**

	Type of dwelling						
	Detached houses	Semi-detached houses	Terraced houses	Tenement	4-in-block	Conv'ns	Tower/slab
	Median	Median	Median	Median	Median	Median	Median
Pre-1919	3	4	5	5	5	4	*
1919-1944	4	5	6	6	7	*	*
1945-1964	4	6	7	6	7	*	4
1965-1974	5	5	6	6	6†	*	5
1975-1982	5	6	6	7	7†	*	*
1983-1990	6	6	7	7	5†	*	*
1991-1997	7	7	7	6	7†	*	*
post-1997	7	7	8†	9†	8†	*	*

**Table 11.5**  
**Median NHER by tenure and type**

	Type of dwelling						
	Detached houses	Semi-detached houses	Terraced houses	Tenement	4-in-block	Conv'ns	Tower/slab
	Median	Median	Median	Median	Median	Median	Median
Owner occupier	5	5	6	5	6	4	*
LA/Other public	3†	5	6	6	7	*	5
HA/Housing coop	*	6	7	6	8†	*	4†
Private renter	3	4	5	5	5†	4†	*

**Table 11.6**  
**Median NHER by tenure and age**

	Tenure			
	Owner occupier	LA/Other public	HA/Housing coop	Private renter
Date of construction	Median	Median	Median	Median
Pre-1919	4	5†	5	3
1919-1944	5	6	6†	5†
1945-1964	6	6	6	5
1965-1974	5	6	5	5†
1975-1982	6	6	7†	6†
1983-1990	6	6	7	6†
1991-1997	7	7†	7	6†
post-1997	7	*	8†	*

**Table 11.7**  
**Median NHER by tenure and weekly household income**

	Tenure			
	Owner occupier	LA/Other public	HA/Housing coop	Private renter
Weekly income (£)	Median	Median	Median	Median
< 100	5	6	6†	4†
100 -199.99	5	6	6	4
200 -299.99	5	6	6	4
300 -399.99	6	6	6	4
400 -499.99	6	6	6†	4†
500 -699.99	6	6†	7†	4†
700+	5	*	*	*

**Table 11.8**  
**Overview of heating systems**

Space heating	000s	%
Full gas central heating	1,492	68
Full electric central heating	251	11
Full other fuel central heating	159	7
Part gas or other central heating	43	2
Partial electric central heating	126	6
Gas fires	37	2
Electric fires	62	3
Other heaters	17	1
Water heating	000s	%
Primary boiler	1,704	78
Off-peak immersion	275	13
Peak immersion	163	8
Separate boiler	16	1
Other	31	1

**Table 11.9**  
**Extent of heating system by key dwelling characteristics**

	Full central heating						Partial central heating				No central heating	
	Gas		Electric		Other		Gas/other		Electric		000s	%
	000s	%	000s	%	000s	%	000s	%	000s	%		
<b>Date of construction</b>												
Pre-1919	265	59	34	8	57	13	9†	2	24	5	57	13
1919-1944	242	78	19	6	19	6	8†	3	10†	3	12†	4
1945-1964	374	70	66	12	28	5	10†	2	27	5	25	5
1965-1974	235	65	57	16	16	4	8†	2	32	9	13†	4
1975-1982	127	68	18	10	17	9	5†	3	15	8	4†	2
1983-1990	87	66	20	15	10	7	*	1	10†	7	*	2
1991-1997	91	67	27	20	8†	6	*	0	8†	6	*	1
post-1997	70	82	9†	10	4†	5	*	1	*	2	*	1
<b>Dwelling type</b>												
Detached	262	64	24	6	94	23	8†	2	13	3	11	3
Semi-detached	348	76	36	8	37	8	9†	2	18	4	12†	3
Terraced houses	370	75	51	10	20	4	10†	2	26	5	17	3
Tenement	298	60	86	17	*	0	8†	2	42	9	59	12
4-in-block	177	77	22	9	5†	2	7†	3	10†	5	10†	4
Flat converted building	26	69	5†	14	*	3	*	1	*	5	*	7
Tower/Slab	10†	16	28	46	*	0	*	1	15	25	*	10
<b>Location</b>												
Rural	118	33	59	17	121	34	9	3	30	8	16	5
Urban	137 3	75	192	10	38	2	34	2	97	5	101	5

**Table 11.10**  
**Extent of heating system by key household characteristics**

	Full central heating						Partial central heating				No central heating	
	Gas		Electric		Other		Gas/other		Electric			
	000s	%	000s	%	000s	%	000s	%	000s	%	000s	%
<b>Tenure</b>												
Owner occupier	993	73	113	8	116	8	23	2	63	5	58	4
LA/Other public	338	64	90	17	20	4	†12	2	41	8	24	5
HA/Housing coop	85	66	25	20	*	1	*	2	8†	6	5†	4
Private renter	75	45	23	13	21	13	*	3	14	9	30	18
<b>Household type</b>												
Single adult	199	59	54	16	14	4	6†	2	32	9	32	10
Small adult	259	70	37	10	32	9	5†	1	19	5	19	5
Single parent	92	70	17	13	4†	3	*	3	8†	6	7†	5
Small family	243	78	20	6	24	8	5†	2	10†	3	9†	3
Large family	116	73	9†	6	19	12	4†	3	6†	4	5†	3
Large adult	165	75	17	7	19	9	5†	2	7†	3	9†	4
Older smaller	214	68	35	11	28	9	7†	2	17	5	14	4
Single pensioner	203	59	63	18	19	5	7†	2	28	8	21	6
<b>Household weekly income (£)</b>												
< 100	70	58	19	16	6†	5	*	3	12†	10	10†	9
100 -199.99	350	61	93	16	29	5	12†	2	40	7	44	8
200 -299.99	310	66	57	12	31	7	12†	2	32	7	29	6
300 -399.99	235	69	37	11	24	7	6†	2	20	6	16	5
400 -499.99	177	73	22	9	21	9	5†	2	11†	5	8†	3
500 -699.99	211	78	16	6	26	10	4†	2	8†	3	5†	2
700+	133	80	6†	4	20	12	*	1	*	1	*	2

**Table 11.11**  
**Extent of loft insulation**

Level of loft insulation	000s	% of all dwellings with loft
None	136	8
25mm	61	4
50mm	173	10
75mm	160	10
100mm	585	35
150mm	348	21
200m	127	8
>200m	54	3
Unobtainable	21	1
Total	1,665	100

**Table 11.12**  
Extent of loft insulation by age of dwelling

	Pre-1919		1919-1944		1945-1964		1965-1974		1975-1982		1983-1990		1991-1997		post-1997	
	000s	%	000s	%	000s	%	000s	%	000s	%	000s	%	000s	%	000s	%
None	61	22	27	12	26	6	15	5	*	2	*	2	*	0	*	1
25mm	10†	3	9†	4	16	4	16	6	6†	4	*	2	*	0	*	1
50mm	27	9	23	10	47	11	39	14	22	13	10†	9	*	3	*	3
75mm	27	10	19	9	45	11	30	11	19	12	10†	9	6†	6	*	5
100mm	85	30	80	36	151	36	92	32	69	42	52	46	41	38	15†	21
150mm	49	18	43	19	84	20	56	20	29	18	25	23	37	33	25	34
200m	13†	5	16	7	34	8	18	6	9†	6	8†	7	12†	11	18†	24
>200m	6†	2	6†	2	8†	2	10†	3	4†	3	*	2	8†	8	9†	12

**Table 11.13**  
Extent of loft insulation by type of dwelling

	Detached		Semi-detached		Terraced		Flat	
	000s	% of applicable dwellings	000s	% of applicable dwellings	000s	% of applicable dwellings	000s	% of applicable dwellings
None	37	9	31	7	30	6	38	13
25mm	13	3	18	4	20	4	10†	3
50mm	38	9	53	12	53	11	29	10
75mm	38	9	45	10	52	11	25	8
100mm	146	36	173	38	176	36	90	30
150mm	92	22	94	20	104	21	58	19
200m	29	7	33	7	37	8	28	9
>200m	17	4	11†	2	14	3	11†	4

**Table 11.14**  
Extent of loft insulation by tenure

	Owner occupier		LA/Other public		HA/Housing coop		Private renter	
	000s	% of applicable dwellings	000s	% of applicable dwellings	000s	% of applicable dwellings	000s	% of applicable dwellings
None	97	8	17	5	*	5	19	18
25mm	47	4	8†	2	*	2	*	4
50mm	130	11	29	9	4†	6	10†	9
75mm	119	10	27	8	5†	7	9†	8
100mm	414	36	113	34	22	31	35	32
150mm	228	20	81	24	17	24	21	19
200m	69	6	41	12	11†	15	7†	6
>200m	31	3	14	4	6†	9	*	2

**Table 11.15**  
**Type of wall insulation by age of dwelling**

	Age of dwelling				Total	
	Pre-1975		Post-1975			
Type of insulation added to walls	000s	% of all pre 1975 dwellings	000s	% of all post 1975 dwellings	000s	% of all dwellings
Cavity fill	263	16	31	6	294	13
External/internal	66	4	4	1	71	3

**Table 11.16**  
**Type of glazing by key dwelling characteristics**

	Single		Double or Triple	
	000s	% within category	000s	% within category
<b>Date of construction</b>				
Pre-1919	192	43	254	57
1919-1944	53	17	258	83
1945-1964	79	15	452	85
1965-1974	42	12	321	89
1975-1982	23	13	163	87
1983-1990	15	12	118	88
1991-1997	6†	4	130	96
post-1997	*	2	84	98
<b>Dwelling type</b>				
Detached houses	56	14	356	86
Semi-detached	66	14	393	86
Terraced houses	80	16	415	84
Tenement	143	29	354	71
Other flat	68	21	262	79
<b>Location</b>				
Rural	69	19	286	81
Urban	344	19	1494	81
<b>Total</b>	<b>413</b>	<b>19</b>	<b>1,780</b>	<b>81</b>

**Table 11.17**  
**Type of glazing by key household characteristics**

	Single		Double or Triple	
	000s	% within category	000s	% within category
<b>Tenure</b>				
Owner occupier	231	17	1138	83
LA/Other public	77	15	449	85
HA/Housing coop	32	25	96	75
Private renter	72	43	97	57
<b>Household type</b>				
Single adult	89	27	248	74
Small adult	73	20	299	81
Single parent	24	18	108	82
Small family	46	15	267	85
Large family	26	17	133	83
Large adult	41	19	180	81
Older smaller	48	15	267	85
Single pensioner	65	19	277	81
<b>Household weekly income</b>				
< 100	36	28	94	72
100 -199.99	114	20	453	80
200 -299.99	85	18	383	82
300 -399.99	57	17	278	83
400 -499.99	41	17	202	83
500 -699.99	44	16	226	84
700+	32	19	134	81
<b>Total</b>	<b>413</b>	<b>19</b>	<b>1,780</b>	<b>81</b>

**Table 11.18**  
**Satisfaction with heating**

	000s	%
Very satisfied	1,354	62
Fairly satisfied	553	25
Neither satisfied nor dissatisfied	71	3
Fairly dissatisfied	122	6
Very dissatisfied	88	4
Don't know	5†	0

**Table 11.19**  
**Satisfaction with heating by NHER**

NHER	Very satisfied		Fairly satisfied		Neither satisfied nor dissatisfied		Fairly dissatisfied		Very dissatisfied	
	Count	%	Count	%	Count	%	Count	%	Count	%
0	*	29	*	30	*	5	*	22	*	14
1	16	32	14	28	5†	9	8†	17	7†	13
2	37	33	40	35	8†	7	13†	12	14†	13
3	83	45	58	31	12†	6	17	9	17	9
4	167	57	78	27	11†	4	22	7	13†	4
5	247	62	105	27	14†	3	20	5	10†	3
6	299	69	99	23	8†	2	17	4	10†	2
7	272	71	88	23	7†	2	11†	3	7†	2
8	157	72	45	21	4†	2	7†	3	*	2
9	53	77	12†	17	*	2	*	2	*	2
10	*	65	*	32	*	0	*	0	*	2
NHER banded										
Poor	57	33	58	33	13	7	24	14	23	13
Moderate	796	61	341	26	45	3	75	6	50	4
good	486	72	147	22	12†	2	20	3	13†	2

**Table 11.20**  
**Reasons for difficulty in heating the home**

Reason	000s	%
No central heating	89	4
Not enough heaters	77	4
Poor system	135	6
Radiators too small	44	2
Heating not working	18	1
Dislike storage heaters	65	3
Inadequate heating	74	3
Difficult to regulate	103	5
Heating in part of house	67	3
Too hard to set the controls	30	1
Draughty windows	193	9
No insulation/poor insulation	125	6
Room(s) too big	38	2
Expensive	129	6
Cannot afford new system	46	2
Other	45	2
None of these	1,521	69

**Table 11.21**  
**Number of households in fuel poverty**

	000s	%
Under SHCS 1996 definition	201	9
Under Fuel Poverty Statement definition	286	13

**Table 11.22**  
**Fuel poverty by banded NHER category**

	NHER category (banded)								
	Poor			Moderate			Good		
Fuel poor households	000s	% of FP	% NHER category	000s	% of FP	% NHER category	000s	% of FP	% NHER category
SHCS 1996 definition	63	31	36	120	60	9	19	9	3
FPS definition	74	26	42	181	63	14	31	11	5

**Table 11.23**  
**Fuel poor households by key dwelling characteristics**

	Fuel poor households					
	SHCS 1996 definition			FPS definition		
	000s	% of FP households	% within category	000s	% of FP households	% within category
<b>Date of construction</b>						
Pre-1919	67	34	15	90	31	20
1919-1944	29	15	9	42	15	14
1945-1964	45	22	8	66	23	12
1965-1982	46	23	8	67	24	12
1982-1997	11†	6	4	18	6	7
post-1997	*	1	3	*	1	4
<b>Type of dwelling</b>						
Detached	54	27	13	76	27	19
Semi-detached	37	18	8	57	20	13
Terraced houses	33	17	7	53	19	11
Tenement	45	22	9	56	20	11
4-in-block	18	9	8	25	9	11
Flat in converted building	5†	3	14	8†	3	20
Tower/Slab	9†	4	14	11†	4	18
<b>Location</b>						
Rural	54	27	15	75	26	21
Urban	147	73	8	211	74	12

**Table 11.24**  
**Fuel poor households by type of heating and insulation**

	Fuel poor households					
	SHCS 1996 definition			FPS definition		
	000s	% of FP households	% within category	000s	% of FP households	% within category
<b>Heating type</b>						
Full gas CH	77	38	5	128	45	9
Full electric CH	35	17	14	47	17	19
Full other fuel CH	26	13	16	37	13	23
Part gas/other CH	6†	3	14	8†	3	19
Part electric CH	21	11	17	26	9	20
Other	36	18	29	40	14	34
<b>Extent of loft insulation</b>						
None	30	15	22	38	14	28
25mm	7†	4	12	11†	4	18
50mm	17	9	10	25	9	14
75mm	14	7	9	22	8	13
100mm	48	24	8	70	25	12
150mm	25	12	7	40	14	12
200mm	7†	4	6	11	4	9
> 200mm	*	2	7	6†	2	11
Unobtainable	*	1	14	*	1	17
<b>Glazing</b>						
Single	66	33	16	84	29	20
Double/triple	135	67	8	202	71	11

**Table 11.25**  
**Fuel poor households by key household characteristics**

	Fuel poor households					
	SHCS 1996 definition			FPS definition		
	000s	% of FP households	% within category	000s	% of FP households	% within category
<b>Tenure</b>						
Owner occupier	115	57	8	177	62	13
LA/Other public	51	25	10	65	23	12
HA/Housing coop	7†	3	5	10†	3	8
Private renter	28	14	17	34	12	20
<b>Household type</b>						
Single adult	39	19	11	46	16	14
Small adult	17	8	5	24	8	6
Single parent	8†	4	6	9†	3	7
Small family	7†	4	2	9†	3	3
Large family	6†	3	4	9†	3	6
Large adult	15	7	7	20	7	9
Older smaller	37	19	12	63	22	20
Single pensioner	72	36	21	105	37	31
<b>Weekly household income (£)</b>						
< 100	79	39	66	86	30	72
100 -199.99	103	51	18	159	56	28
200 -299.99	14	7	3	29	10	6
300 -399.99	*	1	1	8†	3	2
400 -499.99	*	1	0	*	1	1
500 -699.99	*	0	0	*	0	0
700+	*	0	0	*	0	0
<b>Age of HIH</b>						
16-24	10†	5	11	11†	4	12
25-39	21	11	4	26	9	5
40-59	49	25	6	64	22	8
60-64	18	9	11	28	10	17
65-74	43	22	14	76	27	24
75-80	33	17	22	45	16	31
81+	25	13	23	34	12	31