

## SAMPLING WEIGHTS FOR THE NLSS

A two-stage stratified sampling procedure has been used to select the sample for the Nepal Living Standards Survey. Sampling weights should therefore be used when compiling representative statistics from the survey data. The information needed to calculate these sampling weights is contained in an ASCII file N-SAMPLE.ASC (see Appendix 1 for a description of the contents of this file). The sampling weights for the NLSS dataset calculated using this information are in the ASCII file N-WEIGHT.ASC (Appendix 2). In what follows, the procedure by which these sampling weights have been calculated is briefly described.

Data from the NLSS needs to be weighted to take into account the fact that households in different parts of the country did not all have the same probability of being selected for the survey. In deriving the sampling weights, allowance needs to be made for two aspects of the sample selection procedure:

1. Stratification of the sampling frame: The sample frame from which the the NLSS sample was drawn consisted of four main strata. The number of households in the sample allocated to each stratum is given below.

STRATUM	H <sub>1</sub> . HOUSEHOLDS IN NLSS SAMPLE	H <sub>2</sub> . HOUSEHOLDS (1991 CENSUS)	RATIO (H <sub>2</sub> / H <sub>1</sub> ) (A <sub>i</sub> )
1. Mountains	396	276,064	697.13
2. Urban Hills	600	164,787	274.65
3. Rural Hills	1,104	1,402,333	1,270.23
4. Terai	1,200	1,501,868	1,251.56

This stratification scheme thus meant that households in the four strata had different probabilities of being selected for the survey. Weighting data for households in the different strata by a factor proportional to (A<sub>i</sub>) would help improve the representativeness of the sample in terms of the population of the country as a whole.

2. Selection of wards within the strata: The next step in the sampling procedure used for the NLSS involved picking wards in each of the four strata using the probability proportional to estimated size (PPES) method. Within each ward, a fixed number of households were then selected for interviews. In theory, use of PPES means that the sample within each stratum is self-weighted - i.e. no further adjustment to sampling weights is needed. In practice, however, adjustment needs to be made for the fact that, when listing households residing in the ward to pick a fixed number at random for interviews, the size of the ward is almost always found to differ from the estimate on which the PPES was based. Sampling weights assigned to each ward therefore need to be scaled by a factor (B<sub>j</sub>) that is proportional to the ratio of the household count found during the listing exercise in ward j to the estimated household count on which PPES was based (in the case of the NLSS, the latter was the ward household count reported by the 1991 census). In wards where cartography was carried out to split them into smaller units and PPES then used to select one subward, the estimated sizes of the ward and the sub-ward selected during this operation also need to be factored in.

The sampling weight W<sub>ij</sub> for all households in ward j of stratum i can then be calculated by taking the product of (A<sub>i</sub>) and (B<sub>j</sub>)<sup>1</sup>.

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<sup>1</sup> In order to obtain weights for households in the Far-Western Region, this needs to be multiplied by 12/16 to take into account the decision taken during the Advisory Group meeting just before the start of the survey to increase the number of households interviewed in each ward from 12 to 16 in this region.



## APPENDIX 1: CONTENTS OF N-SAMPLE.ASC FILE

VARIABLE	DESCRIPTION	START	LENGTH
1. WSN	NLSS WARD SERIAL NUMBER	1	3
2. STRATUM	NLSS STRATUM	6	1
3. BELT	ECOLOGICAL BELT	14	1
4. REGION	DEVELOPMENT REGION	20	1
5. TEAM	NLSS TEAM NUMBER	26	2
6. DISTRICT	DISTRICT NUMBER	33	2
7. WARD	WARD NUMBER	40	2
8. SUBWARD	SUB-WARD NUMBER	47	2
9. HCENSUS	HOUSEHOLDS IN WARD - 1991 CENSUS	54	4
10. HCARTO	HOUSEHOLDS IN WARD - 1994 CARTOGRAPHY	61	4
11. HSWCARTO	HOUSEHOLDS IN SUB-WARD - 1994 CARTOGRAPHY	70	3
12. HLIST	HOUSEHOLDS IN WARD/SUB-WARD - 1994 LISTING	77	3
13. DNAME	NAME OF DISTRICT	82	15
14. WNAME	VILLAGE DEVELOPMENT COMMITTEE / MUNICIPALITY	97	19

1. WARD SERIAL NUMBER: All 275 wards selected for the NLSS sample have been assigned a number at random ranging from 1 - 275. Wards were grouped on the basis of their geographic location, then divided up amongst the 12 NLSS teams, and sorted by this number. Field teams were instructed to visit these wards in sequential order (i.e. starting with the ward with the lowest WSN, moving next to the ward with the second lowest WSN, and so on). The 5 digit code used to uniquely identify each household in the sample comprises the WSN as its first 3 digits.

2. STRATUM: The master sample frame from which the 275 NLSS wards were drawn was divided into 4 main strata: These strata are as follows:

STRATUM	NO. OF WARDS
A. MOUNTAINS	33
B. URBAN HILLS	50
C. RURAL HILLS	92
D. TERAİ	100

3. ECOLOGICAL BELT: M=Mountains, H=Hills, T=Terai.

4. DEVELOPMENT REGION: The distribution of the NLSS wards by region is as follows:

REGION	NO. OF WARDS
e. EASTERN	60
c. CENTRAL	110
m. MID-WESTERN	52
w. WESTERN	31
f. FAR-WESTERN	22

5. TEAMS: Team numbers have been assigned as follows:

1. BIRATNAGAR	5. UDAYAPUR	9. POKHARA
2. JANAKPUR	6. DHULIKHEL	10. TANSEN
3. KAPILBASTU	7. KATHMANDU	11. BIRENDRANAGAR
4. DHANKUTA	8. POKHARA	12. MAHENDRANAGAR

6. DISTRICT NUMBER: Wards from 73 of the 75 districts in Nepal are represented in the sample drawn for the NLSS (during PPS selection of wards, no wards from Rasuwa and Mustang districts were picked). Following the 1991 Population Census, districts have been assigned codes as follows:

01 TAPLEJUNG	20 SINDHULI	39 SYANGJA	58 BARDIYA
02 PANCHTHAR	21 RAMECHHAP	40 KASKI	59 SURKHET
03 ILAM	22 DOLAKHA	41 MANANG	60 DAILEKHA
04 JHAPA	23 SINDHUPALCHOK	42 MASTANG	61 JAJARKOT
05 MORANG	24 KAVREPALANCHOC	43 MYAGDI	62 DOLPA
06 SUNSARI	25 LALITPUR	44 PARBAT	63 JUMLA
07 DHANKUTA	26 BHAKTAPUR	45 BAGLUNG	64 KALIKOT
08 TEHRATHUM	27 KATHMANDU	46 GULMI	65 MUGU
09 SANKHUWASABHA	28 NUWAKOT	47 PALPA	66 HUMLA
10 BHOJPUR	29 RASUWA	48 NAWALPARASI	67 BAJURA
11 SOLUKHUMBU	30 DHADING	49 RUPANDEHI	68 BAJHANG
12 OKHALDHUNGA	31 MAKWANPUR	50 KAPILBASTU	69 ACHHAM
13 KHOTANG	32 RAUTAHAT	51 ARGHAKHANCHI	70 DOTI
14 UDAYAPUR	33 BARA	52 PYUTHAN	71 KAILALI
15 SAPTARI	34 PARSA	53 ROLPA	72 KANCHANPUR
16 SIRAHA	35 CHITWAN	54 RUKUM	73 DADHELDHURA
17 DHANUSHA	36 GORKHA	55 SALYAN	74 BAITADI
18 MAHOTTARI	37 LAMJUNG	56 DANG	75 DARCHULA
19 SARLAHI	38 TANAHU	57 BANKE	

7. WARD NUMBER: Each Village Development Committee is divided into 9 wards, which are numbered 1 - 9. Urban Municipalities often have a larger number of wards depending on their size. Kathmandu, for instance, is divided into 33 wards. Note that for the NLSS, the boundaries of wards were taken to be the same as those in effect at the time of the 1991 Population Census.

8. SUB-WARD NUMBER: All urban wards and some of the rural wards selected in the NLSS sample were found to be too big for the household listing exercise to be carried out. These wards were divided up into a number of smaller blocks or sub-wards during a cartography operation carried out by CBS in 1994. The number of sub-wards formed ranges from 2 in some of the smaller urban wards to up to 52 in the largest ward in Kathmandu (Ward No. 10).

9. HCENSUS: Number of households residing in the ward as reported by the 1991 Census.

10. HCARTO: Number of households residing in the ward as reported by the "quick count" carried out during the 1994 cartography operation.

11. HSWCARTO: Number of households residing in the sub-ward selected for the NLSS as reported by the "quick count" carried out during the 1994 cartography operation.

12. HLIST: Number of households residing in the ward or sub-ward selected for the NLSS as reported by the household listing operation carried out in Fall, 1994.

13. DNAME: Name of district in which the NLSS ward is located.

14. WNAME: Village development committee or municipality in which the NLSS ward is located.

WSN	STRATUM	BELT	REGION	TEAM	DISTRICT	WARD	SUBWARD	HCENSUS	HCARTO	HSWCARTO	HLIST	DNAME	WNAME
001	D	T	m	3	56	3	0	112	.	.	141	Dang	Laxmipur
002	A	M	f	12	68	2	0	73	.	.	89	Bajhang	
Sainpasela													
003	B	H	c	7	25	12	3	639	557	187	192	Lalitpur	Lalitpur
004	D	T	e	1	16	2	0	81	.	.	60	Siraha	Silorba
Pachhawari													
005	D	T	e	1	6	7	0	47	.	.	52	Sunsari	Chhitaha
006	C	H	w	9	39	2	0	73	.	.	74	Syangja	
Ganeshpur													
007	B	H	w	9	40	2	1	675	648	220	100	Kaski	Pokhara
008	B	H	c	7	25	7	2	881	885	140	114	Lalitpur	Lalitpur
009	B	H	c	7	27	3	4	2837	2732	116	217	Kathmandu	
Kathmandu													
010	B	H	c	7	27	27	2	1415	1514	205	272	Kathmandu	
Kathmandu													
011	C	H	c	5	21	3	0	92	.	.	100	Ramechhap	Himganga
012	C	H	f	11	69	1	0	122	.	.	127	Achham	Kuika
013	C	H	w	9	39	9	0	90	.	.	92	Syangja	Bahakot
014	C	H	c	8	30	4	0	58	.	.	60	Dhading	Sirtung
015	D	T	c	2	33	7	5	940	720	100	349	Bara	
Dumbarwana													
016	D	T	e	1	5	2	1	325	325	175	236	Morang	Rangeli
017	C	H	e	5	13	6	0	62	.	.	62	Khotang	Dadagaun
018	A	M	c	6	23	4	0	71	.	.	84	Sindhupalchok	Kubhinde
019	C	H	f	12	73	3	0	59	.	.	65	Dadheldhura	Koteli
020	C	H	e	4	8	5	0	75	.	.	78	Tehrathum	Sungnam
021	B	H	w	9	40	6	5	1187	1103	211	231	Kaski	Pokhara
022	A	M	f	12	68	2	0	44	.	.	55	Bajhang	Kotdewal
023	D	T	c	2	17	5	0	118	.	.	132	Dhanusha	
Madhukarahi													
024	D	T	c	2	19	8	0	96	.	.	91	Sarlahi	Kisanpur
025	C	H	c	8	30	8	0	84	.	.	87	Dhading	Jogimara
026	C	H	w	9	38	6	0	115	.	.	125	Tanahu	
Dulegauda													
027	B	H	c	7	25	4	5	2141	1661	158	175	Lalitpur	Lalitpur
028	D	T	w	8	48	9	0	117	.	.	133	Nawalparasi	
Pragatinagar													
029	D	T	f	12	72	1	1	440	440	235	338	Kanchanpur	
Krishnapur													
030	C	H	m	3	53	1	0	153	.	.	155	Rolpa	Gajul
031	D	T	e	1	16	4	0	103	.	.	95	Siraha	
Kharukyanhi													
032	C	H	w	10	51	3	0	44	.	.	48	Arghakhanchi	
Gorkhunga													
033	C	H	m	3	55	3	0	61	.	.	64	Salyan	Majh
Kanda													
034	C	H	m	11	60	2	0	111	.	.	120	Dailekha	Katti
035	D	T	c	2	32	4	0	191	.	.	197	Rautahat	
Santpur(Matiaun)													
036	A	M	m	11	64	7	0	97	.	.	103	Kalikot	
Dholagohe													
037	B	H	c	7	27	17	2	2216	1748	130	107	Kathmandu	
Kathmandu													
038	C	H	c	8	31	7	0	148	.	.	154	Makwanpur	
Makwanpurgadhi													
039	A	M	m	11	66	5	0	74	.	.	109	Humla	Shree
Nagar													
040	A	M	e	4	9	4	0	119	.	.	119	Sankhuwasabha	Jaljala
041	C	H	w	9	44	1	0	40	.	.	55	Parbat	Thana
Maulo													
042	C	H	w	8	36	7	0	59	.	.	66	Gorkha	Takukot
043	C	H	w	8	36	8	0	56	.	.	59	Gorkha	Laprak
044	D	T	e	1	5	22	4	1325	1186	175	169	Morang	
Biratnagar													
045	B	H	c	7	27	20	7	1697	1080	125	147	Kathmandu	
Kathmandu													
046	A	M	c	6	23	5	0	164	.	.	171	Sindhupalchok	Bhotsipa
047	D	T	e	1	15	4	0	124	.	.	72	Saptari	Barsain
048	C	H	c	8	31	3	0	116	.	.	100	Makwanpur	Daman
049	C	H	c	7	27	8	0	217	.	.	304	Kathmandu	Manmaiju
050	B	H	c	7	27	4	11	3098	2692	185	210	Kathmandu	
Kathmandu													
051	C	H	m	10	52	1	0	95	.	.	102	Pyuthan	
Dankhakhwadi													
052	C	H	e	4	10	7	0	43	.	.	43	Bhojpur	Dummana
053	C	H	c	6	24	7	0	40	.	.	48	Kavrepalanchoc	
Koshidekha													
054	D	T	c	2	17	8	0	188	.	.	186	Dhanusha	
Raghunathpur													
055	B	H	w	9	40	13	2	905	675	175	188	Kaski	Pokhara

056	B	H	c	7	27	24	6	1038	913	165	157	Kathmandu	
Kathmandu													
057	C	H	e	5	12	6	0	43	.	.	53	Okhaldhunga	Harkapur
058	B	H	w	9	40	17	2	1481	908	193	86	Kaski	Pokhara
059	C	H	w	9	39	9	1	862	598	198	204	Syangja	Syangja
Putalibazar													
060	D	T	c	8	35	6	0	229	.	.	289	Chitwan	Pipale
061	C	H	m	10	52	1	0	55	.	.	69	Pyuthan	Puja
062	D	T	c	2	19	3	0	68	.	.	78	Sarlahi	Shreepur
063	B	H	e	4	3	6	2	293	304	168	155	Ilam	Ilam
064	B	H	c	7	27	10	41	8794	8568	138	147	Kathmandu	
Kathmandu													
065	C	H	w	8	36	7	0	107	.	.	111	Gorkha	Darbhung
066	D	T	w	3	50	4	0	89	.	.	80	Kapilbastu	Pakadi
067	A	M	m	11	65	7	0	37	.	.	37	Mugu	Pina
068	A	M	e	4	1	2	0	37	.	.	42	Taplejung	Tiringe
069	C	H	c	7	25	8	0	194	.	.	187	Lalitpur	Lele
070	C	H	w	10	43	1	0	42	.	.	49	Myagdi	Rakhu
Bhagawati													
071	D	T	e	1	6	9	2	431	464	232	193	Sunsari	
Mahendranagar													
072	B	H	c	7	27	9	13	3304	1851	150	438	Kathmandu	
Kathmandu													
073	D	T	c	2	19	7	0	184	.	.	210	Sarlahi	
Netraganj													
074	D	T	e	1	5	5	3	395	400	150	240	Morang	
Madhumalla													
075	D	T	e	1	5	7	1	1452	1270	175	155	Morang	
Biratnagar													
WSN	STRATUM	BELT	REGION	TEAM	DISTRICT	WARD	SUBWARD	HCENSUS	HCARTO	HSWCARTO	HLIST	DNAME	WNAME
076	D	T	e	1	6	2	5	983	990	200	87	Sunsari	Itahari
077	D	T	w	3	50	6	0	216	.	.	216	Kapilbastu	
Taulihawa													
078	A	M	c	5	22	1	0	133	.	.	148	Dolakha	
Gairimudi													
079	B	H	c	6	26	2	2	440	425	200	254	Bhaktapur	
Bhaktapur													
080	C	H	e	4	2	5	0	53	.	.	57	Panchthar	
Chilingdin													
081	C	H	e	4	3	8	0	108	.	.	124	Ilam	
Laxmipura													
082	C	H	w	10	47	1	0	120	.	.	131	Palpa	Chhahara
083	C	H	e	5	14	8	0	21	.	.	24	Udayapur	Baraha
084	C	H	f	12	70	4	0	126	.	.	139	Doti	Tikhatar
085	D	T	w	3	50	1	0	41	.	.	43	Kapilbastu	
Jawabhari													
086	D	T	e	1	15	4	0	55	.	.	62	Saptari	
Joginiya-2													
087	C	H	f	12	70	3	0	35	.	.	40	Doti	
Jijodamandau													
088	D	T	m	3	58	4	0	119	.	.	129	Bardiya	Dhodhari
089	D	T	e	1	4	5	3	621	810	150	198	Jhapa	Dharmpur
090	D	T	c	2	33	6	0	25	.	.	96	Bara	
Bandhuban													
091	B	H	c	7	27	14	16	3280	3210	180	154	Kathmandu	
Kathmandu													
092	C	H	c	7	27	6	0	75	.	.	71	Kathmandu	Tokha
Sarswoti													
093	D	T	m	3	57	1	0	45	.	.	45	Banke	
Kalaphanta													
094	B	H	c	7	25	1	6	1827	1192	151	212	Lalitpur	Lalitpur
095	B	H	c	7	27	21	7	2120	1274	97	130	Kathmandu	
Kathmandu													
096	C	H	m	11	59	9	0	200	.	.	281	Surkhet	
Latikoili													
097	C	H	w	9	40	5	0	204	.	.	239	Kaski	
Dhikurepokhari													
098	B	H	c	6	28	9	3	667	525	150	135	Nuwakot	Bidur
099	C	H	e	5	14	8	0	143	.	.	162	Udayapur	Hardeni
100	A	M	w	9	41	9	0	18	.	.	19	Manang	Dhyaru
101	A	M	e	5	11	5	0	82	.	.	84	Solukhumbu	Newa
Beddhari													
102	D	T	w	3	49	4	0	56	.	.	58	Rupandehi	
Tarkulaha													
103	D	T	e	1	4	2	1	357	337	200	160	Jhapa	
Arjundhara													
104	D	T	c	8	35	6	0	119	.	.	131	Chitwan	Gardi
105	C	H	c	6	28	2	0	147	.	.	153	Nuwakot	Gerkhu
106	C	H	f	12	74	1	0	28	.	.	39	Baitadi	Durga
Bhabani													
107	D	T	e	1	5	1	0	185	.	.	207	Morang	Takuwa

108	D	T	e	1	4	5	3	505	495	170	168	Jhapa	
Topgachchi													
109	D	T	f	12	72	2	0	106	.	.	146	Kanchanpur	Pipaladi
110	B	H	c	7	27	7	7	3813	2593	161	277	Kathmandu	
Kathmandu													
111	A	M	m	10	62	8	0	26	.	.	25	Dolpa	Tinje
112	D	T	w	3	49	1	0	74	.	.	72	Rupandehi	Bagauli
113	C	H	c	6	24	1	0	87	.	.	86	Kavrepalanchoc	
Patalekheth													
114	C	H	w	9	40	1	0	108	.	.	99	Kaski	Mauja
115	D	T	c	8	35	8	0	110	.	.	130	Chitwan	Korak
116	D	T	e	1	5	2	0	188	.	.	198	Morang	Jhurkiya
117	B	H	c	7	27	10	23	8794	8568	176	174	Kathmandu	
Kathmandu													
118	C	H	e	4	3	3	0	99	.	.	109	Ilam	
Shantidanda													
119	D	T	c	2	32	5	0	84	.	.	82	Rautahat	Pipra
Bhagwanpur													
120	A	M	c	5	22	4	0	30	.	.	28	Dolakha	
Khupachagu													
121	D	T	e	1	4	6	0	93	.	.	103	Jhapa	
Maheshpur													
122	B	H	c	7	27	32	7	3303	1924	128	248	Kathmandu	
Kathmandu													
123	C	H	c	6	26	3	0	78	.	.	84	Bhaktapur	Chhaling
124	D	T	e	1	5	1	0	286	.	.	272	Morang	Banigama
125	C	H	c	7	27	8	0	205	.	.	231	Kathmandu	Gothatar
126	C	H	e	5	13	3	0	36	.	.	35	Khotang	
Mangaltar													
127	C	H	f	12	74	2	0	107	.	.	134	Baitadi	
Raudidewal													
128	D	T	w	3	49	9	0	104	.	.	107	Rupandehi	Semalar
129	C	H	w	10	51	6	0	63	.	.	76	Arghakhanchi	
Pokharathok													
130	C	H	w	10	46	3	0	93	.	.	89	Gulmi	
Bhanbhane													
131	B	H	c	8	31	7	3	543	538	120	104	Makwanpur	Hetauda
132	D	T	e	1	5	6	0	172	.	.	185	Morang	Dulari
133	A	M	c	6	23	3	0	162	.	.	146	Sindhupalchok	Badegau
134	D	T	c	2	34	6	0	81	.	.	83	Parsa	Supauli
135	B	H	c	6	26	8	1	520	530	200	147	Bhaktapur	
Bhaktapur													
136	D	T	w	3	50	2	0	113	.	.	126	Kapilbastu	Bishnpur
137	D	T	e	1	15	7	0	41	.	.	41	Saptari	Maina
Sahasrabahu													
138	C	H	e	4	2	9	0	106	.	.	105	Panchthar	Panchami
139	A	M	m	11	63	5	0	32	.	.	32	Jumla	Mahabe
PattharKhola													
140	A	M	f	12	75	9	0	60	.	.	67	Darchula	
Dhuligada													
141	D	T	c	2	34	1	0	90	.	.	105	Parsa	Mudali
142	D	T	c	2	33	3	0	33	.	.	55	Bara	
Parsurampur													
143	C	H	e	4	7	3	0	63	.	.	61	Dhankuta	Falate
144	B	H	c	6	26	14	2	672	689	175	76	Bhaktapur	
Bhaktapur													
145	C	H	w	10	47	8	0	107	.	.	84	Palpa	Thu
146	B	H	c	7	25	5	14	2963	2334	145	221	Lalitpur	Lalitpur
147	A	M	f	12	67	6	0	45	.	.	49	Bajura	
Pandusain													
148	C	H	w	9	39	2	0	59	.	.	60	Syangja	
Paujegaude													
149	B	H	w	9	40	8	10	2019	1901	208	239	Kaski	Pokhara
150	C	H	e	4	10	8	0	129	.	.	125	Bhojpur	Ranibas

[illegible]

162	A	M	c	5	22	1	0	61	.	.	82	Dolakha	Bocha
163	B	H	m	11	59	6	2	954	733	206	62	Surkhhet	
BirendraNagar													
164	C	H	c	7	25	4	0	36	.	.	37	Lalitpur	
Bhattedanda													
165	C	H	e	5	12	7	0	76	.	.	75	Okhaldhunga	Sisneri
166	C	H	c	7	27	6	0	73	.	.	144	Kathmandu	Balambu
167	D	T	w	3	48	8	1	774	800	100	250	Nawalparasi	Sunwal
168	A	M	e	4	1	1	0	168	.	.	172	Taplejung	
Phungling													
169	C	H	m	11	54	6	0	180	.	.	193	Rukum	Musikot
Khalanga													
170	D	T	e	1	6	9	0	227	.	.	253	Sunsari	
Santerjhora													
171	D	T	c	2	18	3	0	94	.	.	104	Mahottari	
Parsadewadh													
172	D	T	e	1	15	5	0	143	.	.	124	Saptari	
Dhodhanpur													
173	A	M	c	6	23	8	0	80	.	.	95	Sindhupalchok	Syaule
Bazar													
174	D	T	e	1	16	3	0	75	.	.	72	Siraha	
Bhagawatipur													
175	B	H	c	7	27	16	9	4125	2935	125	215	Kathmandu	
176	B	H	c	7	27	15	15	3757	2478	145	200	Kathmandu	
Kathmandu													
177	C	H	e	5	14	5	0	60	.	.	69	Udayapur	Shorung
178	B	H	c	7	27	29	13	3893	2297	160	159	Kathmandu	
Kathmandu													
179	D	T	m	3	56	5	0	131	.	.	141	Dang	
Satbariya													
180	C	H	w	9	38	4	0	101	.	.	98	Tanahu	Purkot
181	B	H	w	9	40	10	1	1479	1254	146	197	Kaski	Pokhara
182	D	T	c	2	17	4	0	79	.	.	82	Dhanusha	Debadiha
183	C	H	w	10	46	4	0	54	.	.	66	Gulmi	Reemuwa
184	D	T	c	8	35	5	1	500	442	120	226	Chitwan	
Bharatpur Nagar													
185	C	H	w	10	47	2	0	45	.	.	46	Palpa	Koldada
186	C	H	f	11	69	1	0	58	.	.	63	Achham	
Bhatakatiya													
187	C	H	w	10	45	4	0	87	.	.	96	Baglung	Singana
188	C	H	c	5	21	4	0	120	.	.	121	Ramechhap	Rasanalu
189	D	T	c	2	17	1	0	135	.	.	134	Dhanusha	
Umaprempur													
190	D	T	c	2	34	9	0	70	.	.	66	Parsa	Gadi
191	D	T	c	2	18	9	0	63	.	.	66	Mahottari	Kolhusa
Bagaiya													
192	D	T	c	2	19	6	0	119	.	.	126	Sarlahi	Dhangada
193	B	H	c	7	27	6	12	3294	2969	217	128	Kathmandu	
Kathmandu													
194	C	H	w	10	45	8	0	110	.	.	125	Baglung	Kalika
195	C	H	e	4	3	8	0	102	.	.	117	Ilam	Bajho
196	D	T	e	1	4	6	0	192	.	.	184	Jhapa	
Ghailaduwa													
197	D	T	w	3	48	7	0	100	.	.	122	Nawalparasi	Gairmi
198	D	T	c	2	17	14	3	861	615	185	114	Dhanusha	Janakpur
199	D	T	c	2	17	3	0	29	.	.	30	Dhanusha	Gopalpur
200	C	H	c	8	31	8	0	247	.	.	272	Makwanpur	Shreepur
Chhatiwani													
201	D	T	f	12	71	8	0	213	.	.	242	Kailali	Joshiapur
202	B	H	c	7	27	33	3	3649	2017	110	144	Kathmandu	
Kathmandu													
203	D	T	e	1	15	2	0	66	.	.	65	Saptari	Tikuliya
204	C	H	m	11	61	7	0	152	.	.	206	Jajarkot	Khalanga
205	C	H	c	5	20	1	0	27	.	.	32	Sindhuli	Bitijor
Bagaincha													
206	D	T	c	2	19	9	0	86	.	.	105	Sarlahi	Hathiyol
207	B	H	c	7	27	8	1	1616	812	210	186	Kathmandu	
Kathmandu													
208	C	H	m	11	60	8	0	113	.	.	101	Dailekha	Santalla
209	B	H	f	12	70	4	0	173	.	.	121	Doti	Dipayal
210	A	M	c	6	23	7	0	104	.	.	120	Sindhupalchok	Timpool
Ghyangul													
211	D	T	c	2	19	2	0	54	.	.	78	Sarlahi	Bara
Udhoran													
212	D	T	e	1	4	3	0	142	.	.	146	Jhapa	
Khajurgachhi													
213	D	T	m	3	57	9	1	326	292	153	94	Banke	
Nepalgunj													
214	D	T	e	1	4	2	0	110	.	.	92	Jhapa	
Chakchaki													
215	D	T	w	3	49	7	0	107	.	.	109	Rupandehi	
Kamahariya													



216	D	T	m	3	57	2	0	104	.	.	109	Banke	Sitapur
217	D	T	f	12	71	2	4	1002	985	190	215	Kailali	
Dhangadhi													
218	D	T	e	1	16	7	0	31	.	.	33	Siraha	
Malhaniya Gamharia													
219	C	H	w	10	45	7	0	117	.	.	135	Baglung	
Burtiwang													
220	C	H	c	5	20	4	0	107	.	.	132	Sindhuli	
Mahadevsthan													
221	C	H	c	6	28	3	0	100	.	.	149	Nuwakot	
Okharpauwa													
222	C	H	c	5	20	5	0	90	.	.	95	Sindhuli	Tinkanya
223	D	T	m	3	58	4	0	95	.	.	106	Bardiya	
Thakudwara													
224	C	H	c	8	30	2	0	128	.	.	136	Dhading	Nalang
225	D	T	c	2	33	7	2	354	360	173	183	Bara	Kalaiya

WSN	STRATUM	BELT	REGION	TEAM	DISTRICT	WARD	SUBWARD	HCENSUS	HCARTO	HSWCARTO	HLIST	DNAME	WNAME
226	A	M	c	6	23	9	0	45	.	.	46	Sindhupalchok	Pagretar
227	C	H	f	11	69	5	0	55	.	.	49	Achham	Sutar
228	D	T	m	3	58	7	1	673	680	210	240	Bardiya	Motipur
229	B	H	c	7	27	12	5	1775	1251	173	243	Kathmandu	
Kathmandu													
230	D	T	e	1	4	7	1	884	890	230	247	Jhapa	
Satasidham													
231	B	H	w	10	47	8	0	251	.	.	136	Palpa	Tansen
232	B	H	e	4	7	6	2	388	360	179	84	Dhankuta	Dhankuta
233	A	M	e	4	9	7	0	80	.	.	88	Sankhuwasabha	Syabun
234	D	T	c	2	18	5	0	184	.	.	189	Mahottari	Gaushala
235	C	H	e	4	8	4	0	48	.	.	56	Tehrathum	Chhate
Dhunga													
236	C	H	m	11	54	3	0	211	.	.	268	Rukum	
Bijeswori													
237	C	H	w	9	44	5	0	102	.	.	115	Parbat	Durlung
238	C	H	w	10	46	7	0	52	.	.	53	Gulmi	Harewa
239	D	T	e	1	16	6	0	72	.	.	77	Siraha	Gadha
240	B	H	c	6	24	1	0	200	.	.	212	Kavrepalanchoc	
Dhulikhel													
241	A	M	c	5	22	2	0	87	.	.	77	Dolakha	Namdu
242	D	T	f	12	71	4	1	335	360	130	138	Kailali	Phulwari
243	B	H	c	7	27	2	9	1538	1241	128	182	Kathmandu	
Kathmandu													
244	D	T	e	1	6	9	0	278	.	.	291	Sunsari	
Aurabarni													
245	C	H	w	8	37	5	0	92	.	.	87	Lamjung	
Chakratirtha													
246	C	H	w	9	38	3	0	145	.	.	150	Tanahu	Bhanu
247	B	H	c	6	28	1	1	260	236	125	80	Nuwakot	Bidur
248	C	H	m	3	55	2	0	105	.	.	101	Salyan	
Damachaur													
249	A	M	m	11	64	6	0	52	.	.	48	Kalikot	Phoi
Mahadev													
250	C	H	c	6	24	5	0	94	.	.	77	Kavrepalanchoc	Deuvumi
Baluwa													
251	B	H	c	8	31	10	6	1282	954	268	310	Makwanpur	Hetauda
252	D	T	c	2	18	3	0	146	.	.	178	Mahottari	
Sisawakataiya													
253	D	T	c	2	17	4	0	136	.	.	125	Dhanusha	
Balabakhar													
254	C	H	m	3	53	9	0	91	.	.	92	Rolpa	Nuwagaun
255	C	H	m	11	59	1	0	245	.	.	217	Surkhet	Chhinchu
256	C	H	m	11	59	1	0	135	.	.	155	Surkhet	
Uttarganga													
257	C	H	w	9	40	5	0	142	.	.	146	Kaski	Thumki
258	D	T	c	2	32	5	0	73	.	.	71	Rautahat	Laxmipur
259	D	T	w	3	48	7	0	149	.	.	151	Nawalparasi	Makar
260	C	H	c	8	30	4	0	86	.	.	86	Dhading	Baseri
261	B	H	c	7	27	15	6	3757	2478	115	140	Kathmandu	
Kathmandu													
262	D	T	w	3	48	8	0	67	.	.	75	Nawalparasi	
Banjariya													
263	A	M	f	12	75	7	0	83	.	.	85	Darchula	
Rithachaupata													
264	B	H	c	8	31	4	4	1303	966	168	180	Makwanpur	Hetauda
265	A	M	f	12	68	2	0	49	.	.	51	Bajhang	Dangaji
266	A	M	e	5	11	1	0	7	.	.	9	Solukhumbu	Gora
Khami													
267	A	M	f	12	67	2	0	74	.	.	76	Bajura	
Gudukhati													
268	C	H	w	8	37	6	0	57	.	.	50	Lamjung	
Parewadada													
269	D	T	w	3	49	8	0	240	.	.	244	Rupandehi	Motipur

270	B	H	c	7	27	10	8	8794	8568	247	418	Kathmandu	
Kathmandu													
271	D	T	f	12	71	1	0	182	.	.	209	Kailali	Udasipur
272	D	T	c	2	33	9	0	30	.	.	26	Bara	
Sisahaniya													
273	D	T	m	3	56	8	0	95	.	.	114	Dang	Dhikpur
274	D	T	m	3	56	7	0	126	.	.	145	Dang	Urahari
275	D	T	c	2	34	2	3	600	501	160	137	Parsa	Birganj

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## APPENDIX 2: N-WEIGHT.ASC

WSN	WEIGHT	WSN	WEIGHT	WSN	WEIGHT	WSN	WEIGHT
001	1575.62	075	969.57	149	297.13	223	1396.47
002	637.45	076	548.30	150	1230.84	224	1349.62
003	245.80	077	1251.56	151	721.17	225	1346.34
004	927.08	078	775.76	152	752.58	226	712.62
005	1384.70	079	336.90	153	1412.01	227	848.74
006	1287.63	080	1366.10	154	1359.22	228	1445.23
007	119.84	081	1458.41	155	1228.94	229	271.88
008	224.65	082	1386.67	156	299.70	230	1353.19
009	494.75	083	1451.69	157	355.92	231	148.81
010	389.90	084	1050.96	158	697.13	232	119.58
011	1380.68	085	1312.61	159	821.00	233	766.84
012	991.72	086	1410.85	160	1274.31	234	1285.57
013	1298.46	087	1088.77	161	1623.64	235	1481.93
014	1314.03	088	1356.73	162	937.13	236	1613.37
015	3345.65	089	2154.85	163	63.51	237	1432.12
016	1687.81	090	4805.98	164	1305.51	238	1294.66
017	1270.23	091	229.96	165	1253.52	239	1338.47
018	824.78	092	1202.48	166	2505.66	240	291.12
019	1049.55	093	1251.56	167	3234.00	241	617.00
020	1321.04	094	251.57	168	713.73	242	1070.79
021	279.39	095	221.19	169	1361.97	243	315.09
022	653.56	096	1784.67	170	1394.91	244	1310.08
023	1400.05	097	1488.16	171	1384.70	245	1201.19
024	1186.37	098	194.55	172	1085.27	246	1314.03
025	1315.59	099	1439.00	173	827.84	247	159.54
026	1380.68	100	735.86	174	1201.49	248	1221.84
027	235.99	101	714.13	175	336.11	249	643.51
028	1422.71	102	1296.26	176	249.85	250	1040.51
029	1350.08	103	945.15	177	1460.76	251	236.40
030	1286.83	104	1377.76	178	161.03	252	1525.87
031	1154.35	105	1322.08	179	1347.10	253	1150.33
032	1385.70	106	1326.94	180	1232.50	254	1284.19
033	1332.70	107	1400.39	181	314.20	255	1125.06
034	1373.22	108	1212.34	182	1299.08	256	1458.41
035	1290.87	109	1292.88	183	1552.50	257	1306.01
036	740.25	110	321.33	184	2083.67	258	1217.27
037	178.31	111	670.32	185	1298.46	259	1268.36
038	1321.72	112	1217.73	186	1034.80	260	1270.23
039	1026.86	113	1255.63	187	1401.63	261	220.52
040	697.13	114	1164.38	188	1280.81	262	1401.00
041	1746.57	115	1479.11	189	1242.29	263	535.45
042	1420.93	116	1318.13	190	1180.04	264	218.15
043	1338.28	117	264.54	191	1311.15	265	544.19
044	1081.85	118	1398.54	192	1325.18	266	896.31
045	205.55	119	1221.76	193	146.02	267	536.98
046	726.89	120	650.66	194	1443.44	268	1114.24
047	726.71	121	1386.13	195	1457.03	269	1272.42
048	1095.03	122	309.96	196	1199.41	270	452.83
049	1779.49	123	1367.94	197	1526.90	271	1077.92
050	270.90	124	1190.29	198	550.88	272	1084.68
051	1363.83	125	1431.33	199	1294.71	273	1501.87
052	1270.23	126	1234.95	200	1398.79	274	1440.28
053	1524.28	127	1193.07	201	1066.47	275	894.82
054	1238.24	128	1287.66	202	198.73		
055	220.06	129	1532.34	203	1232.59		
056	229.85	130	1215.60	204	1721.49		
057	1565.63	131	235.83	205	1505.46		
058	75.03	132	1346.15	206	1528.06		
059	907.91	133	628.28	207	122.23		
060	1579.48	134	1282.46	208	1135.34		
061	1593.56	135	205.74	209	144.07		
062	1435.61	136	1395.54	210	804.38		
063	262.90	137	1251.56	211	1807.80		
064	285.03	138	1258.25	212	1286.81		
065	1317.71	139	697.13	213	688.74		
066	1124.99	140	583.85	214	1046.76		
067	697.13	141	1460.15	215	1274.95		
068	791.34	142	2085.93	216	1311.73		
069	1224.40	143	1229.90	217	1044.16		
070	1481.93	144	122.29	218	1332.30		
071	1120.88	145	997.19	219	1465.65		
072	449.28	146	329.73	220	1567.01		
073	1428.41	147	569.32	221	1892.64		
074	2027.84	148	1291.76	222	1340.80		