

Report on Sample Selection for the School-to-Work Transition Survey (SWTS) 2012

Sampling frame

The original sample design proposed by the ILO consultant had envisaged a total sample of 160 Enumeration Areas (EAs), of which 123 would be rural and 37 urban. With 16 households were selected in each EA and this would have given an overall sample size of 2,560 households. These sample EAs were selected from the sample EAs of Cambodia Labour Force and Child Labour 2011-2012 as a sampling frame shown in Table 1.

Table 1 Number of sample EAs for Labor Force and Child Labor Survey 2011-2012
by province, urban and rural (as a sampling Frame)

Pcode	Province	Urban	Rural	Total
1	Banteay Meanchey	2	28	30
2	Battambang	4	26	30
3	Kampong Cham	4	51	55
4	Kampong Chhnang	1	29	30
5	Kampong Speu	3	42	45
6	Kanpong Thom	1	29	30
7	Kampot	1	24	25
8	Kandal	2	33	35
9	Koh Kong	1	9	10
10	Kratie	1	14	15
11	Mondul Kiri	1	9	10
12	Phnom Penh	20	12	32
13	Preah Vihear	1	14	15
14	Prey Veng	1	37	38
15	Pursat	1	24	25
16	Rattanak Kiri	1	14	15
17	Siem Reap	2	33	35
18	Preah Sihanouk	1	9	10
19	Stung Treng	1	11	12
20	Svay Rieng	1	29	30
21	Takeo	1	37	38
22	Oddar Meanchey	1	14	15
23	Kep	1	9	10
24	Pailin	1	9	10
	Total	54	546	600

According to the sample selection, the SWTS in Cambodia 2012 is to be conducted in ten Capital/Provinces namely, Phnom Penh, Banteay Meanchey, Battambang, Kampong Cham, Kampot, Koh Kong, Prey Veng, Preah Sihanouk, Siem Reap, and Takeo, with a

representative sample of 2,560 households within 160 EAs (see table 2). The survey is to collect information on various characteristics of youth aged 15 to 29 years.

Table 2 Number of Sample EAs for SWTS 2012 by province, urban and rural

No.	Province	Urban	Rural	Total
1	Banteay Meanchey	2	13	15
2	Battambang	4	12	16
3	Kampong Cham	4	23	27
4	Kampot	1	11	12
5	Koh Kong	1	6	7
6	Phnom Penh	20	8	28
7	Prey Veng	1	15	16
8	Siem Reap	2	14	16
9	Preah Sihanouk	1	6	7
10	Takeo	1	15	16
	Total	37	123	160

Sample design

The sample design for the survey was a stratified two-stage probability sample where the first stage units were enumeration areas (EAs) designated as the Primary Sampling Units (PSUs) and the second stage units as the Second Sampling Units (SSUs) were the households.

1. The first stage sampling selection

In this stage, enumeration areas (EAs) were selected with Systematic Random Sampling method. For the sample urban areas in each province, all numbers of urban areas were selected from the sampling frame as shown in Table 1. For the sample rural areas in each province, the method of Systematic Random Sampling with random start was used.

2. The second stage sampling selection

A fixed sample size of 16 households in each EA would be selected by using the method of Systematic Random Sampling with a random start.

The procedure of selecting households by Systematic Random Sampling with equal probability in brief is given below:

Let **H** be the number of households in the frame of households in an EA and allocated number of households to be **h**.

Calculate sampling interval, $I = H/h$ up to two places of decimal.

Take a random number between **1** and **I**. Call it **R** (Random start).
Then the set of selected households are:

$$R, R+1*I, R+2*I, \dots, R+i*I, \dots, R+(h-1)*I$$

Note: (i) If any $(R+i*I) > H$ then take $[(R+i*I) - H]$

(ii) If $(R+i*I)$ has a decimal part, round off it to the nearest integer.

Sample EAs for SWTS 2012

SN	SEA	PCode	U/R	Province Name	DCode	District Name	CCode	Commune Name	VCode	Village Name
1	001	01	1	Banteay Meanchey	06	Krong Serei Saophoan	02	Kampong Svay	03	Phum Pir
2	002	01	1	Banteay Meanchey	10	Krong Paoy Paet	02	Sangkat Paoy Paet	15	Paoy Paet
3	003	01	2	Banteay Meanchey	02	Mongkol Borei	01	Banteay Neang	12	Dang Run Kaeut
4	006	01	2	Banteay Meanchey	02	Mongkol Borei	07	Phnum Touch	01	Phnum Touch Tboung
5	008	01	2	Banteay Meanchey	02	Mongkol Borei	11	Soea	11	Kouk Samraong
6	010	01	2	Banteay Meanchey	03	Phnum Srok	03	Ponley	01	Ta Vong
7	012	01	2	Banteay Meanchey	04	Preah Netr Preah	02	Chob Vari	05	Pradak
8	014	01	2	Banteay Meanchey	04	Preah Netr Preah	05	Preak Netr Preah	07	Ta Paen
9	016	01	2	Banteay Meanchey	04	Preah Netr Preah	09	Bos Sbov	12	Pring Kaong
10	019	01	2	Banteay Meanchey	06	Krong Serei Saophoan	03	Kaoh Pong Satv	01	Kaoh Pong Satv
11	021	01	2	Banteay Meanchey	07	Thma Puok	01	Banteay Chhmar	08	Thma Daekkeh
12	023	01	2	Banteay Meanchey	07	Thma Puok	04	Thma Puok	03	Voat Chas
13	025	01	2	Banteay Meanchey	08	Svay Chek	03	Sla Kram	01	Sla Kram
14	027	01	2	Banteay Meanchey	08	Svay Chek	07	Treas	04	Prei
15	029	01	2	Banteay Meanchey	09	Malai	06	Ta Kong	02	Ballangk
16	031	02	1	Battambang	03	Krong Battambang	01	Tuol Ta Aek	01	Ou Ta Kam Muoy
17	032	02	1	Battambang	03	Krong Battambang	03	Rotanak	08	Rotanak
18	033	02	1	Battambang	03	Krong Battambang	09	Ou Char	05	Anhchanh
19	034	02	1	Battambang	08	Sangkhae	02	Norea	02	Norea Pir
20	036	02	2	Battambang	01	Banan	05	Chaeng Mean Chey	01	Rung
21	038	02	2	Battambang	02	Thma Koul	03	Ou Ta Ki	02	Popeal Khae
22	041	02	2	Battambang	04	Bavel	01	Bavel	03	Tumnob Tuek
23	043	02	2	Battambang	04	Bavel	05	Ampil Pram Daeum	08	Sthapaor Pir
24	045	02	2	Battambang	05	Aek Phnum	03	Preaek Khpob	01	Preaek Snao
25	047	02	2	Battambang	06	Moung Ruessei	02	Kear	08	Kear Bei
26	049	02	2	Battambang	06	Moung Ruessei	07	Kakaoh	07	Ph'iang
27	051	02	2	Battambang	08	Sangkhae	03	Ta Pun	01	Boeng Tuem
28	054	02	2	Battambang	09	Samlout	04	Sung	01	Sung Muoy
29	056	02	2	Battambang	11	Phnom Proek	01	Phnom Proek	06	Ou Thum
30	058	02	2	Battambang	12	Kamrieng	03	Ou Da	01	Kandal
31	060	02	2	Battambang	14	Rukhak Kiri	01	Preaek Chik	08	Thnom

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32	061	03	1	Kampong Cham	03	Cheung Prey	08	Soutip	03	Thmei
33	062	03	1	Kampong Cham	05	Krong Kampong Cham	03	Sambuor Meas	02	Roka Kraom
34	063	03	1	Kampong Cham	13	Prey Chhor	03	Chrey Vien	05	Banteay Rueng
35	064	03	1	Kampong Cham	16	Tboung Khmum	08	Chob	15	Phum Sounbuon Sounpram
36	067	03	2	Kampong Cham	01	Batheay	09	Tang Krang	02	Cheung Chhnok
37	069	03	2	Kampong Cham	02	Chamkar Leu	02	Chamkar Andoung	12	Ta Prok
38	071	03	2	Kampong Cham	02	Chamkar Leu	07	Ta Ong	02	Sampoar
39	073	03	2	Kampong Cham	03	Cheung Prey	06	Sampong Chey	12	Komar
40	075	03	2	Kampong Cham	04	Dambae	04	Neang Teut	01	Khnaor
41	078	03	2	Kampong Cham	06	Kampong Siem	08	Kaoh Tontuem	03	Kaoh Prak Kraom
42	080	03	2	Kampong Cham	07	Kang Meas	02	Kang Ta Noeng	01	Kang Ta Noeng Ti Muoy
43	082	03	2	Kampong Cham	07	Kang Meas	09	Roka Koy	03	Phum Thmei Ka
44	084	03	2	Kampong Cham	08	Kaoh Soutin	05	Moha Khnhoung	08	Angkor Chey Leu
45	087	03	2	Kampong Cham	09	Krouch Chhmar	10	Svay Khleang	01	Phum Ti Muoy
46	089	03	2	Kampong Cham	10	Memot	05	Dar	04	Spean
47	091	03	2	Kampong Cham	10	Memot	11	Rumchek	03	Khpob
48	093	03	2	Kampong Cham	11	Ou Reang Ov	02	Chak	07	Chak
49	095	03	2	Kampong Cham	11	Ou Reang Ov	08	Tuol Sophi	06	Tuol Sopoar
50	098	03	2	Kampong Cham	12	Ponhea Kraek	06	Kraek	23	Serei Sokha
51	100	03	2	Kampong Cham	13	Prey Chhor	02	Boeng Nay	09	Neak Ta Snoeng
52	102	03	2	Kampong Cham	13	Prey Chhor	11	Samraong	05	Svay Prey
53	104	03	2	Kampong Cham	14	Srei Santhor	05	Mean Chey	03	Moan Dab Kraom
54	106	03	2	Kampong Cham	14	Srei Santhor	13	Svay Khsach Phnum	01	Svay Leu
55	109	03	2	Kampong Cham	15	Stueng Trang	10	Preak Kak	11	Boeng Daeng
56	111	03	2	Kampong Cham	16	Tboung Khmum	04	Chikor	17	Tuol Kandal Tboung
57	113	03	2	Kampong Cham	16	Tboung Khmum	16	Roka Po Pram	03	Roka Pram Ti Muoy
58	115	03	2	Kampong Cham	16	Tboung Khmum	22	Tonle Bet	07	Preaek Chik
59	221	07	1	Kampot	08	Krong Kampot	04	Andoung Khmer	05	Ta Doeb
60	223	07	2	Kampot	01	Angkor Chey	04	Dambouk Khpos	06	Trapeang Tnaot
61	225	07	2	Kampot	01	Angkor Chey	11	Tani	03	Kan Trong
62	227	07	2	Kampot	02	Banteay Meas	07	Sdach Kong Khang Iech	04	Chheu Teal
63	230	07	2	Kampot	03	Chhuk	02	Takaen	13	Meaknou Sokh

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64	232	07	2	Kampot	03	Chhuk	09	Trapeang Phleang	05	Srae Leav
65	234	07	2	Kampot	04	Chum Kiri	01	Chres	01	Ta Tean
66	236	07	2	Kampot	04	Chum Kiri	07	Trapeang Reang	05	Ou
67	238	07	2	Kampot	05	Dang Tong	09	Angk Romeas	03	Snao Touch
68	240	07	2	Kampot	06	Kampong Trach	08	Phnom Prasat	03	Khleang Khang Cheung
69	243	07	2	Kampot	07	Tuek Chhou	08	Koun Satv	01	Bos Ninh
70	245	07	2	Kampot	07	Tuek Chhou	17	Trapeang Pring	02	Trapeang Pring Khang Tboung
71	281	09	1	Koh Kong	04	Krong Khemarak Phoumin	02	Dang Tong	01	Phum Ti Muoy
72	282	09	2	Koh Kong	01	Botum Sakor	02	Kandaol	02	Prolean
73	283	09	2	Koh Kong	01	Botum Sakor	04	Thma Sa	05	Thma Sa
74	285	09	2	Koh Kong	03	Koh Kong	04	Trapeang Rung	04	Trapeang Rung
75	286	09	2	Koh Kong	05	Mondol Seima	01	Pak Khlang	06	Neang Kok
76	288	09	2	Koh Kong	06	Srae Ambel	02	Chi Kha Kraom	04	Nea Pisei
77	289	09	2	Koh Kong	06	Srae Ambel	05	Dang Peaeng	01	Ban Tiet
78	316	12	1	Phnom Penh	01	Chamkar Mon	03	Boeng Keng Kang Pir	05	Phum 5
79	317	12	1	Phnom Penh	01	Chamkar Mon	08	Tumnob Tuek	04	Phum 4
80	318	12	1	Phnom Penh	02	Doun Penh	03	Phsar Thmei Ti Bei	03	Phum 3
81	319	12	1	Phnom Penh	02	Doun Penh	10	Srah Chak	04	Phum 4
82	320	12	1	Phnom Penh	03	Prampir Meakkakra	04	Ou Ruessei Ti Buon	05	Phum 5
83	321	12	1	Phnom Penh	04	Tuol Kouk	01	Phsar Depou Ti Muoy	05	Phum 5
84	322	12	1	Phnom Penh	04	Tuol Kouk	06	Tuek L'ak Ti Bei	12	Phum 12
85	323	12	1	Phnom Penh	04	Tuol Kouk	10	Boeng Salang	03	Phum 3
86	324	12	1	Phnom Penh	06	Mean Chey	01	Stueng Mean chey	03	Phum Trea
87	325	12	1	Phnom Penh	06	Mean Chey	01	Stueng Mean chey	10	Phum Trea Pir
88	326	12	1	Phnom Penh	06	Mean Chey	02	Boeng Tumpun	05	Phum Tnoat Chrum
89	327	12	1	Phnom Penh	06	Mean Chey	05	Chhbar Ampov Ti Pir	01	Phum Daeum Chan
90	328	12	1	Phnom Penh	06	Mean Chey	07	Chak Angrae Kraom	01	Phum Tuol Roka
91	329	12	1	Phnom Penh	06	Mean Chey	09	Kbal Kaoh	03	Preaek Thum
92	330	12	1	Phnom Penh	07	Ruessei Kaev	02	Tuol Sangkae	03	Phum Tuol Kouk
93	331	12	1	Phnom Penh	07	Ruessei Kaev	08	Preaek Lieb	01	Phum Kien Kleang
94	332	12	1	Phnom Penh	08	Saensokh	01	Phnom Penh Thmei	05	Phum Phnom Penh Thmei
95	333	12	1	Phnom Penh	08	Saensokh	02	Tuek Thla	08	Phum Chongthnal Khang Lech

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96	334	12	1	Phnom Penh	09	Pou Senchey	05	Chaom Chau	14	Phum Prey Tear
97	335	12	1	Phnom Penh	09	Pou Senchey	06	Kakab	09	Phum Paprak Khamg Cheung
98	336	12	2	Phnom Penh	05	Dangkao	07	Pong Tuek	01	Phum Trapeang Tear
99	338	12	2	Phnom Penh	05	Dangkao	14	Sak Sampov	02	Phum Khvet
100	339	12	2	Phnom Penh	05	Dangkao	17	Preaek Kampues	04	Damnak Sangkae
101	341	12	2	Phnom Penh	07	Ruessei Kaev	09	Preaek Ta Sek	02	Phum Preaek Ta Kong
102	342	12	2	Phnom Penh	07	Ruessei Kaev	14	Kaoh Dach	01	Chong Kaoh
103	344	12	2	Phnom Penh	09	Pou Senchey	02	Trapeang Krasang	06	Phum Trapeang Anhchanh
104	345	12	2	Phnom Penh	09	Pou Senchey	03	Kouk Roka	14	Phum Andoung
105	347	12	2	Phnom Penh	09	Pou Senchey	24	Ovlaok	10	Tbaeng Mean Chey
106	363	14	1	Prey Veng	07	Peam Ro	07	Preaek Khsay Kha	01	Phum Muoy
107	365	14	2	Prey Veng	01	Ba Phnum	03	Chheu Kach	11	Khleang
108	367	14	2	Prey Veng	01	Ba Phnum	09	Theay	14	Khvet
109	369	14	2	Prey Veng	02	Kamchay Mear	06	Smaong Khang Cheung	02	Tean Phleung
110	372	14	2	Prey Veng	03	Kampong Trabaek	06	Kou Khchak	07	Chamreh
111	374	14	2	Prey Veng	03	Kampong Trabaek	12	Prey Poun	02	Chi Ak
112	377	14	2	Prey Veng	05	Me Sang	01	Angkor Sar	05	Angkor Sar
113	379	14	2	Prey Veng	05	Me Sang	05	Prey Rumdeng	04	Kandal
114	382	14	2	Prey Veng	06	Peam Chor	06	Krang Ta Yang	03	Krang Prey Phdau
115	384	14	2	Prey Veng	07	Peam Ro	04	Peam Mean Chey	05	Banlech
116	387	14	2	Prey Veng	08	Pea Reang	08	Prey Sniet	01	Prey Sniet
117	389	14	2	Prey Veng	09	Preah Sdach	02	Banteay Chakrei	04	Chey Ta
118	392	14	2	Prey Veng	09	Preah Sdach	10	Rumchek	06	Chongruh
119	394	14	2	Prey Veng	11	Pou Rieng	06	Preaek Chrey	01	Preaek Chrey Leu
120	397	14	2	Prey Veng	12	Sithor Kandal	11	Ruessei Sanh	02	Ruessei Sanh
121	399	14	2	Prey Veng	13	Svay Antor	06	Peam Rong	04	Krang Chambak
122	441	17	1	Siemreap	10	Krong Siem Reab	01	Sla Kram	04	Dak Pou
123	442	17	1	Siemreap	10	Krong Siem Reab	03	Kouk Chak	03	Teaksen Tboung
124	443	17	2	Siemreap	01	Angkor Chum	03	Kouk Doung	02	Khchar
125	445	17	2	Siemreap	02	Angkor Thum	02	Leang Dai	01	Leang Dai
126	447	17	2	Siemreap	03	Banteay Srei	04	Rumchek	02	Sala Kravan
127	450	17	2	Siemreap	04	Chi Kraeng	05	Kouk Thlok Kraom	10	Thnal Ta Set

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128	452	17	2	Siemreap	04	Chi Kraeng	09	Pongro Leu	09	Prey Chhkar
129	454	17	2	Siemreap	06	Kralanh	03	Kralanh	05	Kralanh
130	457	17	2	Siemreap	07	Puok	02	Doun Kaev	09	Peam
131	459	17	2	Siemreap	07	Puok	10	Puok	05	Kouk Srok
132	461	17	2	Siemreap	07	Puok	16	Yeang	02	Chong Thnal
133	464	17	2	Siemreap	10	Krong Siem Reab	05	Nokor Thum	01	Rohal
134	466	17	2	Siemreap	10	Krong Siem Reab	12	Krabei Riel	05	Krasang
135	469	17	2	Siemreap	11	Soutr Nikom	05	Kien Sangkae	08	Trapeang Prey
136	471	17	2	Siemreap	11	Soutr Nikom	10	Ta Yaek	06	Paoy Smach
137	473	17	2	Siemreap	13	Svay Leu	02	Kantuot	02	Khnar Krau
138	476	18	1	Preah Sihanouk	01	Krong Preah Sihanouk	02	Sangkat Pir	03	Phum Bei
139	478	18	2	Preah Sihanouk	02	Prey Nob	04	Cheung Kou	03	Ta Ney
140	479	18	2	Preah Sihanouk	02	Prey Nob	06	Ou Oknha Heng	01	Bang Kokir
141	481	18	2	Preah Sihanouk	02	Prey Nob	10	Samrong	04	Samrong Leu
142	482	18	2	Preah Sihanouk	02	Prey Nob	14	Veal Renh	01	Boeng Veaeng
143	484	18	2	Preah Sihanouk	03	Stueng Hav	04	Kaev Phos	06	Rithy Muoy
144	485	18	2	Preah Sihanouk	04	Kampong Seila	02	Kampong Seila	03	Thmei
145	528	21	1	Takeo	08	Krong Doun Kaev	02	Roka Khnong	08	Louri
146	530	21	2	Takeo	01	Angkor Borei	05	Preaek Phtoul	01	Angkor
147	532	21	2	Takeo	02	Bati	04	Kandoeng	07	Haknuman
148	534	21	2	Takeo	02	Bati	10	Pot Sar	03	Krang Pou
149	537	21	2	Takeo	03	Borei Cholsar	04	Kampong Krasang	05	Thma Bei Dom
150	539	21	2	Takeo	04	Kiri Vong	05	Kiri Chong Kaoh	03	Daeum Beng
151	542	21	2	Takeo	05	Kaoh Andaet	01	Krapum Chhuk	02	Beng
152	544	21	2	Takeo	06	Prey Kabbas	01	Angkanh	01	Trapeang Roka
153	547	21	2	Takeo	06	Prey Kabbas	10	Prey Lvea	03	Anlong Meas
154	549	21	2	Takeo	07	Samraong	02	Boeng Tranh Khang Tboundg	07	Hang Heng
155	552	21	2	Takeo	07	Samraong	09	Soengh	02	Chhuk Khang Tboundg
156	554	21	2	Takeo	08	Krong Doun Kaev	03	Roka Krau	08	Ben Mau
157	557	21	2	Takeo	09	Tram Kak	05	Nhaeng Nhang	09	Angk Ta Saom
158	559	21	2	Takeo	09	Tram Kak	10	Samraong	14	Prey Kokir
159	562	21	2	Takeo	10	Treang	04	Khvav	04	Kakaoh
160	564	21	2	Takeo	10	Treang	09	Sambuor	09	Tnaot Chum