

Proposed strategy for the selection of summer Kuchi

The information from the kuchi survey of 2004 gives us an indication of how many kuchi communities are in each district during the summer. Migratory patterns change according to climate and land conflicts. Therefore rather than trying to draw a sample based upon the predicted number of kuchi communities per district, and run the risk that this information is not accurate, use a sample frame to draw a list of districts, and then after visiting the district, determine how many kuchi communities are actually present for a decision is made on the number of kuchi communities to sample in that district. The split late summer 07 and early summer 08 strategies provides an opportunity to modify the second sampling depending upon the war number of communities encountered in the 1st summer round.

The list of fifty-seven districts chosen in March 2007 for would-be enumeration of the kuchi summer component has been randomly split into two parts, with the intention of visiting one half of the districts in the summer of 2007 and the other half in the summer of 2008. The partial lists are as follows:

Late summer of 2007

Code	Province Name	District Name	Expected No of communities
01 05	Kabul	Qarabagh	10
01 10	Kabul	Char Asyab	17
01 14	Kabul	Dih Sabz	21
03 07	Parwan	Bagram	5
03 13	Parwan	Panjshir2	29
04 02	Wardak	Jalrez	27
04 07	Wardak	Chak	9
05 01	Logar	Pul alem	26
05 07	Logar	Azra	22
06 13	Ghazni	Ajeristan	10
07 15	Paktika	Wozakhowa	4
08 04	Paktya	Zurmat	22
14 08	Badakhshan	Baharak	31
14 23	Badakhshan	Khwahan	2
15 08	Takhar	Namak –Ab	1
17 02	Kunduz	Iamamsahib	3
19 12	Balkh	Sholgara	11
22 04	Faryab	Almar	3
22 10	Faryab	Dawladaboad	4
23 03	Badghis	Abkamary	14
23 06	Badghis	Ghormach	7
24 04	Hirat	Pushtun zarghun	15
24 13	Hirat	Farsi	27
25 06	Farah	Shib koh	2
27 05	Hilmand	Garmser	3
30 01	Uruzgan	Tirin kot	3
31 06	Ghor	Passaband	22
31 09	Ghor	Tulak	5
32 05	Bamyan	Yakawlang	2

Early summer of 2008

Code	Province Name	District Name	Expected No of communities
01 09	Kabul	Paghman	15
01 13	Kabul	Bagrami	17
03 05	Parwan	Shinwary	5
03 10	Parwan	Shikh Ali	8
04 01	Wardak	Maidan shahr	10
04 03	Wardak	First Part Of Behsood	3
04 09	Wardak	Nerkh	9
05 05	Logar	Mohammad Agha	30
06 09	Ghazni	Qarabagh	18
07 02	Paktika	Matta Khan	1
08 01	Paktya	Gardiz	35
10 10	Nangarhar	Hisarak	9
14 11	Badakhshan	Yawan	3
15 01	Takhar	Taluqan	1
16 05	Baghlan	Khinjan	4
17 07	Kunduz	Archi	4
21 06	Sari Pul	Sangcharak	9
22 05	Faryab	Qaisor	8
23 02	Badghis	Muqur	3
23 04	Badghis	Qadis	3
23 07	Badghis	Murghab	3
24 08	Hirat	Kohistan	5
24 16	Hirat	Kushki Kohna	16
26 04	Nimroz	Chakhansoor	5
29 05	Zabul	Day chopan	29
30 03	Uruzgan	Khas Uruzgan	8
31 08	Ghor	Tulak	27
31 10	Ghor	Taywara	9

Selection of communities

Upon their arrival into a district, fieldworkers will draw an actual list of all Kuchi communities in the district, using Form KUCHI-1. Once the team feel the information on the name and number of kuchi communities in the district is complete, read it by phone to the Kabul headquarters survey coordinator. It is expected that this list can be drawn in consultation with knowledgeable officials in the district center and any kuchi shura representatives. This process does not require travel within the district. If there are no kuchi communities at all in the district, there is no alternative sampling.

(Although the order of the communities in the list is immaterial, it is good practice to ask fieldworkers to draw the list in a certain ritualized order. It is proposed to hold the kuchi communities within the district in increasing distance from the district center.)

Kabul headquarters will select one or more Kuchi communities in the district and communicate the names of the selected communities to the fieldworkers within an hour.

(Although the selection process described below can be very fast, we feel it may be better not to give fieldworkers the names of the selected communities in the same phone call. We suggest make them wait a few minutes – not too long, just a few minutes.)

Procedure for determining the number and identity of kuchi communities to be sampled within the district

1. Number the Kuchi Communities in the list with serial numbers from 1 to N.
2. If N is less or equal 15, select a random integer between 1 and N. If N is bigger than 15, select a random integer between 1 and 15. Call R the random integer so selected.
3. Select Kuchi Community Number R.
4. If R+15 is less or equal N, select a 2nd Kuchi Community Number R+15.
5. If R+30 is less or equal N, Select a 3rd at Kuchi Community Number R+30, and so forth.

(The expectation is that this selection procedure should give a sample size of 35 communities in each half summer sampling rounds i.e. late summer 2007 and early summer 2008.)

Selection of tents within a kuchi community

Fieldworkers will draw the list of all tents in the selected communities using Form KUCHI-2. It is expected that this list can be drawn in consultation with knowledgeable persons in the community. It does not require traveling to all tents in the community.

Fieldworkers will then select the eight tents to be interviewed as follows:

1. Number the tents in the list with serial numbers from 1 to N.
2. Divide N by 8, and keep one decimal. Call the result "the sampling step" (S).
3. Select a random integer between 1 and S. Call this number "the random start" (R).
4. Compute numbers R, R+S, R+2S, ..., R+7S, keeping one decimal.
5. The numbers of the selected tents are the integer of the above numbers.

Example

1. There are 90 tents in the community, N=90
2. $S = N/8 = 90/8 = 11.25 = 11.3$ to 1 decimal place
3. Radom integer number between 1 and 11.3 (R) =random start = 3
4. R, R+S, R+2S, ..., R+7S = 3, 14.3, 25.6, 36.9, 48.2, 59.5, 70.8, 82.1.
5. Select tents 3, 14, 25, 36, 48, 59, 70, 82

Sampling issues to accommodate Ramadan in the kuchi sample

Despite the month of Ramadan been fasting month, it is often associated with higher food consumption. Given that consumption is the very basis of the poverty estimation, and the kuchi cohort is the only cohort in the survey not to be included in the Ramadan period, because for the years 2007 and 2008 this does not fall in the prescribed winter and summer kuchi enumeration months, there is likely to be an inherent

bias by not including any kuchi enumeration in the Ramadan months. Kuchi sampled in winter and summer locations because the available information on the numbers of kuchi communities in the location is only available for winter and summer periods. The spring and autumn periods at times of migration, and these are periods where we do not have good predictive information of where kuchi communities are likely to be encountered. Hence they are not surveyed during the spring and autumn periods of the NRVA survey.

To overcome the potential bias of not having any kuchi PSUs enumerated during the Ramadan months, 1/12th of all of the kuchi PSUs are to be sampled during Ramadan 2008 (September). There was no kuchi enumeration during Ramadan 2007, because it took place after the summer kuchi enumeration period. While September is late in the summer kuchi enumeration period, it is still a time when it may be possible to find kuchi communities in their predicted summer districts before they start the migration to the winter location. This procedure will ensure that equal weighting can be maintained for Ramadan and non-Ramadan kuchi PSUs.

A total of 140 PSUs are to be enumerated for kuchi during the NRVA 2007/08 survey: 35 during summer 2007, 70 during winter 2007/08 and another 35 during summer 2008. Therefore 1/12th of 140 kuchi PSUs = $11 \frac{2}{3}$ rounded up to the nearest integer = 12 PSUs to be enumerated in Ramadan 2008.

[Selection of PSUs to be enumerated during Ramadan 2008](#)

Because we do not know ex-anti the number of kuchi communities that will be encountered in each of the 28 districts selected for summer kuchi enumeration, random sampling will therefore be at the level of district rather than the level of PSU. These following steps are for sampling 12 Ramadan months PSUs:

1. From the 28 kuchi districts to be sampled during summer 2008, randomly select 12 districts for enumeration during the Ramadan period.
2. If in any of the 12 district selected for Ramadan enumeration, there are sufficient kuchi communities that the sampling methodology requires more than one kuchi PSU to be enumerated, then one of the PSUs required to be enumerated in that district during the summer 2008 period should be randomly selected for enumeration during Ramadan.