Dairy Producers sample

We focused on three strata that are important for the supply of dairy products to the city of Addis Ababa:

- Producers in the city of Addis Ababa
- Suburban producers
- Rural producers

We focused on the zones of North and West Shewa as dairy production in those zones are the highest of all surrounding zones of Addis Ababa (CSA statistics for 2016/17):

The sample was set up as follows.

1. **Rural areas**

   Step 1: We ranked all the woredas of North and West Shewa by remoteness to Addis. We divide in quartiles. We selected randomly, proportional to the number of cows, in Q1: 4 woredas; Q2: 2 woredas; Q3: 2 woredas; Q4: 2 woredas

   The selected woredas are:
   Q1: Debre Libanos, Jido, Dendi, Wuchale
   Q2: Girar Jarso, Toko Kutaye
   Q3: Kuyu, Metarobi
   Q4: Gindeberet, Dera

   Step 2:
   a. For Q1/Q2: We made the distinction between a major-road access kebele and a non-major road access kebele. We randomly selected 2 kebele from those that have access to the main road and 1 kebele from those that do not have access to the main road.
   b. For Q3 and Q4: we selected randomly 3 kebeles from each woreda.

   Step 3: In each selected kebele, we ranked households by number of dairy cows; we selected randomly, proportional to the number of dairy cows, 30 households and number them 1 to 30.

   Step 4: We visited households 1 to 20 and interviewed only those households that have cows in milk. Those households that have no cows in milk were replaced by number 21, 22, etc. until 20 producers were reached.

   In total we interviewed 600 households in Rural area.

2. **Suburban (Oromia Special Zone Surrounding Finfinne)[1]**

   Step 1: We selected randomly, proportional to dairy production, three woredas.

   Step 2: We selected 4 kebeles from each woreda. Three kebeles were randomly selected from those that have access to a main road. One kebele was randomly selected from the off-road kebeles.

   Step 3: In each selected kebele, we ranked households by number of dairy cows; we selected randomly, proportional to the number of dairy cows, 30 households and number them 1 to 30.

   Step 5: We visited households 1 to 20 and interviewed only those households that have cows in milk. Those households that have no cows in milk are replaced by number 21, 22, etc. until 20 producers were reached.

   The selected woredas are Sululta, Sebeta and Walmera.

   In total Interviewed 248 households in suburban.

3. **Urban (Addis Ababa)**

   We did a census of all farms. 94 farms were randomly selected (likelihood selection is proportional to the number of dairy cows) and Interviewed.

4. As part of the survey, we also interviewed 13 large commercial farms, defined as those with 25 or more cows. 2 from Rural area, 8 from suburban and 3 from urban (Addis Ababa).

Overall producers interviewed

	Urban	Sub-urban	Rural				Total
			Q1	Q2	Q3	Q4	
Woreda		3	4	2	2	2	13
Farms	97	256	244	120	118	120	955
Of which farms with 25 cows or more	3	8	2				13
On-road kebeles		9	8	4			21
Off-road kebeles		3	4	2	6	6	21

[1] It consists of six woredas (Akaki, Berek, Mulo, Sebeta – Awas, Sululta, and Welmera) and eight major towns (Burayu, Dukam, Gelan, Holata, Laga Xaafoo – Laga Daadhi, Sebeta, Sendafa – Beke, and Sululta).