**Zambia**

**mVAM Methodology**

**Household survey:**

The household data presented in the Zambia mVAM bulletins has been collected since January 2017. WFP began collecting household food security data on food consumption, coping strategies, and demographics via the mobile Vulnerability Analysis and Mapping (mVAM) initiative using Computer Assisted Telephone Interviews (CATI). Respondents are also asked to comment on the food situation in their communities. In March 2017, collecting data on household dietary diversity was started and alternated monthly with the food consumption data. Each month, data is collected from 1,000 respondents across 12 districts in five provinces: Copperbelt (Ndola and Chililabombwe), Eastern (Mambwe and Petauke), Lusaka (Chongwe and Rufunsa), Southern (Choma, Gwembe and Livingstone) and Western (Kalabo, Mongu, and Sesheke). Participants were randomly selected from a database of mobile subscribers. An airtime credit incentive of US$0.50 (ZMK4.90) is given to respondents who successfully completed the survey. The survey collects household dietary diversity data as well as food consumption and coping strategies. The data is weighted by the number of mobile phones owned by the household and district population estimates.

**Trader survey:**

WFP Zambia’s in-house call centre has been operational since May 2016. The call centre conducts telephone interviews with 51 traders to collect weekly information on the prices of foods including maize, rice, groundnuts, cassava, and beans as well as information on general food availability and market accessibility. The surveys are carried out across 24 districts from Central, Copperbelt, Eastern, Luapula, Muchinga, Northern, Southern and Western Provinces.

**Food Consumption Score (FCS):**

The food consumption score (FCS) is a proxy indicator for food security that measures the diversity of household diets and how frequently food is consumed. The FCS is calculated using the frequency of consumption of eight food groups by a household during the 7 days before the survey using standardized weights for each of the food groups reflecting its respective nutrient density, and then classifies households as having ‘poor,’ ‘borderline,’ or ‘acceptable’ food consumption. The FCS results in Nigeria are calculated using a universal adjusted set of thresholds (poor≤21, 21<borderline≤35, acceptable≥35). For more details on the food group composition, weighted values, and FCS thresholds, please see the Food Consumption Analysis Technical Guidance Sheet.

**Reduced Coping Strategies Index (rCSI):**

The reduced Coping Strategies Index (rCSI) measures the frequency and severity of the behaviours households engage in when faced with shortages of food or financial resources to buy food. It assesses whether there has been a change in the consumption patterns of a given household. The rCSI is calculated using standard food consumption-based strategies and severity weighting. A higher score indicates that households are employing more frequent and/or extreme negative coping strategies. For the purpose of this bulletin, mVAM calculates the mean rCSI of households. For more details on the types of coping strategies considered and their respective severity weighting, please see the Coping Strategies Index Field Methods Manual.

**Household Dietary Diversity Score (HDDS):**

The HDDS is used as a proxy measure of the socio-economic level of the household. HDDS ideally looks at the number of unique foods consumed by household members over a twenty-four hour period. Studies have shown that HDDS is a useful approach for measuring household food access. Key to note is that household food access in this regard refers to the household’s ability to acquire sufficient quality and quantity of food to meet the nutritional requirements for their productive lives.

**Contacts:**

Zambia Country Office: WFP.Lusaka@wfp.org
# mVAM Questionnaire

## Household survey

### Profiling questions

1. In what year were you born? (Report with a four-digit number like 1980)
   - a. XX —> Continue to question 3
   - b. XX —> Thank you very much. You are ineligible for the survey
2. Is your household led by man or a woman? *Check definition of household
   - a. Man
   - b. Woman
3. Did you move or change your residence in the last 6 months?
   - a. Yes
   - b. No
4. In which province are you currently living for the past 2 months?
   (Western province, Northern province, Eastern province, Central province, Southern province, North Western province, Luapula province, Copperbelt province, Lusaka province, Muchinga province)
5. In which district are you currently living for the past 2 months?
6. What type of roof does your house have?
   - a. Thatched grass
   - b. Plastic or tarpaulin
   - c. Simple iron or asbestos sheets
   - d. Special iron sheets or concrete
   - e. Other, please specify
7. What type of wall does your house have?
   - a. Sticks and mud
   - b. Mud bricks
   - c. Concrete blocks
   - d. Other, please specify

## Food Consumption Score

### Food Consumptions Score (FCS)

8. Consider only meals consumed at home or public kitchen but not in private restaurants or street food. DO NOT count food consumed in very small amount: i.e. less than a tablespoon per person or consumed by only one member of household.

**How many days in the past 7 days did your household eat the following food groups?**

<table>
<thead>
<tr>
<th><strong>Food Group</strong></th>
<th><strong>Frequency (number of days from 0 to 7)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Cereals, grains, roots and tubers</td>
<td><img src="image" alt="Cereals, grains, roots and tubers" /></td>
</tr>
<tr>
<td>b. Pulses, nuts and/or seeds</td>
<td><img src="image" alt="Pulses, nuts and/or seeds" /></td>
</tr>
<tr>
<td>c. Vegetables</td>
<td><img src="image" alt="Vegetables" /></td>
</tr>
<tr>
<td>d. Fruits</td>
<td><img src="image" alt="Fruits" /></td>
</tr>
<tr>
<td>e. Meat, eggs and fish</td>
<td><img src="image" alt="Meat, eggs and fish" /></td>
</tr>
<tr>
<td>f. Milk and other dairy products: fresh milk, sour milk, yogurt, cheese, other dairy products</td>
<td><img src="image" alt="Milk and other dairy products" /></td>
</tr>
<tr>
<td>g. Oil and fats: including vegetable oil, margarine, other fats / oil</td>
<td><img src="image" alt="Oil and fats" /></td>
</tr>
<tr>
<td>h. Sugar and sweets: including sugar, honey, jam, cakes, candy, cookies, sugary drinks, other</td>
<td><img src="image" alt="Sugar and sweets" /></td>
</tr>
</tbody>
</table>
### Household Dietary Diversity Score (HDDS)

**Did you or anyone in your household eat the following food groups yesterday during the day or night?**

Consider only meals consumed at home or public kitchen but not in private restaurants or street food. DO NOT count food consumed in very small amount: i.e. less than a tablespoon per person or consumed by only one member of household.

<table>
<thead>
<tr>
<th>Food Group</th>
<th>Yes = 1</th>
<th>No = 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Cereals and grains including maize, maize meal, nshima, maize samp, rice, wheat, pasta, bread, sorghum, millet</td>
<td></td>
<td></td>
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<tr>
<td>b. Roots and tubers including white sweet potato, cassava, potato,</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Pulses, nuts and/or seeds including beans, cow peas, peas, ground-nuts, lentils, soy, pumpkin seeds, other nuts and seeds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Vegetables including spinach, onion, tomatoes, carrots, peppers, green beans, lettuce, pumpkin, orange sweet potatoes, broccoli, butter nut, amaranth / or other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Fruits including ripe mango, ripe papaya, peach, banana, guava, pineapple, apple, lemon, wild fruits, or other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Meat including goat, beef, chicken, duck, pork, lamb, sheep, birds, insects, rats, game meat, caterpillars, liver, intestine, kidney, heart, tongue</td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Eggs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Fish including canned tuna or canned sardines, tilapia (fish consumed in large quantities and not as a condiment), kapenta</td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Milk and other dairy products: fresh milk, sour milk, yogurt, cheese, other dairy products</td>
<td></td>
<td></td>
</tr>
<tr>
<td>j. Oil and fats including vegetable oil, butter, margarine, other fats / oil</td>
<td></td>
<td></td>
</tr>
<tr>
<td>k. Sugar and sweets including sugar, honey, jam, cakes, candy, cookies, sugary drinks, other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>l. Condiments including tea, coffee, spices, salt, etc.</td>
<td></td>
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</tr>
</tbody>
</table>

**rCSI and manual labour**

(For the next 5 questions, reply only with number of days your household took action because there was not enough food, or money to buy food,)

9. How many days in the past 7 days did your household eat foods you enjoy less, because it is cheaper? [report with a number of days]

10. How many days in the past 7 days did your household get food or money to buy food from family or friends? [report with a number of days]

11. How many days in the past 7 days did your household eat fewer meals in a day? [report with a number of days]

12. How many days in the past 7 days did your household eat smaller meals? [report with a number of days]

13. How many days in the past 7 days did adults in your household eat less so children can also eat? [report with a number of days]

14. Currently, how much in ZMK are people paid per day for agricultural casual labour (Musebezi wa mazoho) in your community? [ZMK 10-120]

**Others**

15. Did your household receive food or cash assistance in the past 30 days? [Reply yes or No]
a. If yes, in which form did you receive it?
   a) Voucher
   b) In-kind
   c) Cash
   d) Cash, Voucher
   e) Cash, In-kind
   f) Voucher, In-kind
b. From which organization did you receive food assistance? [Report the name of the organization]
   a) Government
   b) FSIP
   c) Friends and relatives
   d) International NGO
   e) WFP
   f) FAO
   g) Church
   h) Others
16. What is the food situation like in your community? [Free response]

Traders and Key Informants survey

Consent & Eligibility
Hello my name is.....I am calling you from the United Nations World Food Programme. We are conducting a survey on Food Prices in your market. Your answers will not be shared and will be used only for WFP purposes.
1. Are you interested in participating in this survey, now?
   a. Yes
   b. No
2. What is your age in years?

Geographic & Background Information
1. Are you are trader?
   a. Yes
   b. No
2. Which Province are you currently living?
3. Which district are you currently living in?
4. In which market do you sell your commodities?
5. Is your market a daily, weekly or monthly market?
6. What type of a trader are you?
   a. Retailer
   b. Wholesaler
7. Where do you sell your goods?
   a. Shop
   b. Stall/open ground

Availability and Prices
8. Are beans available in most markets in this community?
   a. Yes
   b. No
9. Currently how much do beans cost in most markets in your community?
   Measuring Units
   a. Kg
   b. 50Kg
   c. 90 Kg
   d. Meda-5Kg
10. Is Cassava available in most markets in your community?
   a. Yes
   b. No
11. Currently how much does cassava cost in most markets in your community?
   Measuring Units
   a. Kg
   b. 50Kg
   c. 90 Kg
   d. Meda-5Kg
   e. Cup
12. Are groundnuts available in most markets in your community?
   a. Yes
   b. No
13. Currently how much do groundnuts cost in most markets in your community?
   Measuring Units
   a. Kg
   b. 50Kg
   c. 90 Kg
   d. Meda-5Kg
14. Is rice (local) available in most markets in your community?
   a. Yes
   b. No
15. Currently how much does rice (local) cost in most markets in your community?
   Measuring Units
   a. Kg
   b. 50Kg
   c. 90 Kg
   d. Meda-5Kg
16. Is maize (white) available in most markets in your community?
   a. Yes
   b. No
17. Currently how much does maize (white) cost in most markets in your community?
   Measuring Units
   a. Kg
   b. 50Kg
   c. 90 Kg
   d. Meda-5Kg
18. Is there sufficient food (maize) available in your market currently?
   a. Yes
   b. No
19. How would you rate the availability?
   a. Not available
   b. Available
   c. Very much available

Supply
20. What is the current main sources of supply for the main staple?
   a. Neighbouring community
   b. Outside the district
21. Around how many food traders are there in your market today?
22. How many trucks or bicycles or ox carts came to bring food to the market today?
23. What is the main transportation method for your goods?
   a. Ox carts
   b. Bicycles
   c. Vehicles
   d. Others
24. Have there been recent cash or food distributions received by households in your location?
   a. Yes
   b. No
   c. I don’t know
Challenges
25. Please tell us about the situation in your market. What are the challenges?