Food Security Assessment and Analysis - Nutrition Assessment Methods

REPEATED SURVEYS – POPULATION-BASED SURVEYS

ТҮРЕ	NATIONAL SURVEYS	SMALL SCALE SURVEYS
DESCRIPTION	 Population-based. Use standard methodologies to collect quantitative (e.g. anthropometry) and qualitative data. May be either cross sectional (one-off, may be repeated at intervals in order to monitor changes) or longitudinal (continuous monitoring of the same sample). Based on a representative sample of the population (children or adults) - meaning that all members of the population have a known probability of being included in the sample. Use standard sampling procedures: usually a two-stage cluster sample in which 30 clusters of 30 children are selected. Representative at national or sub-national 	
	 level. Often cover various age groups. Usually conducted in stable situations, at regular intervals (e.g. 3 to 5 or 10 years). 	 information within the shortest time possible. Carried out to guide specific nutrition related programmes. Commonly used during emergencies.
PURPOSE	types of interventions, targeting allocation of resources Long-term planning and allocation of resources (assist policy makers and program managers in evaluating and designing programs and strategies for improving nutrition).	Provide a basis for planning, monitoring and evaluating development projects and are also commonly used during emergencies.
OBJECTIVES	Assess cause, type, severity and extent of malnutrition among children and/or adults (provide prevalence estimates).Assess the underlying causes of malnutrition related to food, health and care (not always done).To provide up-to-date comprehensive analysis of the nutritional situation.• To determine the severity and extent of the nutrition situation without embarking on a full scale survey, • Determine impact of an emergency or intervention. • Estimate numbers of individuals in need of nutritional interventions.	

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REPEATED SURVEYS - POPULATION-BASED SURVEYS (continued)

ТҮРЕ	NATIONAL SURVEYS	SMALL SCALE SURVEYS
STRENGTHS		minimize bias, ensure valid comparisons, and review trends over time. n (food, health and care) enable in-depth interpretation of anthropometric
	 Representative of an entire population. Allow to assess impact of macro-level policies and national nutrition-related programmes. Can determine geographical areas for targeting on the basis of high levels of malnutrition. Often assess micronutrient deficiencies. Disaggregated by age, gender, urban/rural, region/province, and sometimes by socio- economic status and maternal education. 	 Relatively quick to implement and to analyze. In emergency contexts, prevalence of wasting can be used to trigger specific interventions, although this may be problematic in situations of protracted crisis.
WEAKNESSES	 Methods for assessing the underlying causes of m Require technical expertise during planning, imple High costs of implementation and analysis. Carried out every 3 to 10 years. Frequent lack of contextual information. Exclusion of some population groups (e.g. pastoralists). Inability to disaggregate data on basis of other population groupings (livelihood groupings, agroecological zones, political status). Difficulty in obtaining statistically representative samples in areas of insecurity. Limited value at the community or household level in terms of nutritional education and support for the management of individual cases of malnutrition. 	

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ТҮРЕ	CLINIC-BASED GROWTH MONITORING	COMMUNITY-BASED GROWTH MONITORING
DESCRIPTION PURPOSE OBJECTIVES	 Continuous monitoring of growth (usually weight-for-age) in children. Ch Can be conducted by health professionals at Maternal and Child Health (MCH) clinics. Often forms an established part of the national health information system. To identify malnourished children and mobilize local resources to support To monitor and manage the nutritional status of individual children. To support the prevention and management of child malnutrition (e.g. families with children at risk may be given a food supplement and/or counselling on illness and feeding). 	 nildren are usually measured once per month. Can be conducted by trained members of the community in villages. It is mainly used in UNICEF supported programmes or by international NGOs.
STRENGTHS	 Frequently the only regular source of nutritional data available nationally. Provides information on trends (growth charts). Allows comparison between geographical areas. May provide early warning of a deterioration in health and food security. 	 Empowerment of communities to gather, interpret and act on nutrition related problems. Can work well when the community nutrition mobilizers are adequately funded, trained and supported to facilitate communities to deal with nutritional problems. Can provide a more comprehensive coverage of the under-five population compared to clinic based growth monitoring.
WEAKNESSES	 Not representative of the total population because not all children are brought to the clinic for growth monitoring. Low capacity of clinic staff to analyse the collected data (usually done by a central body, if resources permit). Contextual information which could explain the causes of malnutrition is not necessarily available, except diseases (morbidity) and immunization. Growth monitoring data alone is of limited use. 	 Problems of data accuracy. Delays in analysis. Lack of contextual information to complement the growth monitoring data. Difficulties in ensuring that information receives attention from the district or regional level.

GROWTH MONITORING

Food Security Assessment and Analysis - Nutrition Assessment Methods SENTINEL SITE SURVEILLANCE

ТҮРЕ	CENTRALLY-BASED SENTINEL SITE SURVEILLANCE	COMMUNITY-BASED SENTINEL SITE SURVEILLANCE	
DESCRIPTION	Sentinel sites are purposively selected in highly vulnerable areas.		
	Data can be collated and analysed centrally or by trained members of the community.		
	 Data are collated and analysed centrally. 	Data are collated and analysed by trained members of the	
	 Centrally based systems may also have elements of 	community.	
	community involvement.		
PURPOSE	Monitor and evaluate nutritional status		
OBJECTIVES	 To detect changes in context, programme and outcome variables. 		
	Act as an early warning component and to analyse trends.		
	To continuously monitor development policies and identify	 To provide rapid information concerning health and 	
	mechanisms through which services can be delivered most	nutrition status in the communities.	
	effectively.	• To indicate changes occurring over time so that responses	
		can be taken at the local level.	
STRENGTHS	Less costly than national surveys.	Empowering the community.	
	Can reveal more in-depth information on the causes of	Lower cost to centrally based systems.	
	mainutrition.	Useful in emergencies when insecurity prevents representative compliant	
	 Data collectors spend a longer period in the targeted communities and can thus give rapid feedback to them. 	representative sampling.	
	 Can provide good early warning of crises where the 		
	surveillance targets the most vulnerable communities.		
	 Trends observed on key indicators allow to identify the 		
	sites for continuation in monitoring.		
WEAKNESSES	Data collected is not representative of the wider	Areas selected may not represent the wider population.	
	population and cannot be generalized.	Data quality may not be reliable. This can lead to inaction	
	 Population groups that may also be of interest are not 	by decision makers and reduced community participation.	
	necessarily included.	Lack of remuneration for enumerators may lead to poor	
	• Data may not be comparable with other survey data.	engagement.	

Food Security Assessment and Analysis - Nutrition Assessment Methods SCHOOL CENSUS DATA

DESCRIPTION	 Nutritional assessment in some countries undertaken in schools where first grade school children are measured through censuses that are carried out every 2 to 3 years. Data commonly collected: height, weight, age and micronutrients disorders (iodine deficiency). 	
PURPOSE	 Assess nutritional status of school aged children 	
	Target school feeding programmes.	
OBJECTIVES	Identify children with poor health or malnutrition.	
	Allow to measure trends.	
STRENGTHS	Inexpensive and provides very good population coverage, only where school attendance is universal.	
WEAKNESSES	Easily confounded by external factors like reduction in attendance rates (particularly among girls). For this reason, data	
	cannot be extrapolated to the general population.	