

World Food Programme



Experiences in the Management of Disaster Risk Prevention and Mitigation

November 14-15, 2001

Guatemala City



The world's largest international food aid organization;

The front line UN organization fighting to eradicate world hunger;

Emergency and development projects in 80 countries world wide with more than 5,000 staff members;

In the year 2000 provided food aid to 36 million victims of natural disasters;

Has invested in the last 30 years over US\$ 24 billion and more than 43 million tons of food to:

- combat hunger
- promote economic and social development, and
- provide relief assistance in emergencies across the world.

WORLD FOOD PROGRAMME

WFP's mission is:

- 1) to save the lives of people caught up in humanitarian crises, through Food-For-Life;
- 2) to support the most vulnerable people at the most critical times of their lives, through Food-For-Growth; and
- 3) to help the hungry poor become self-reliant and build assets, through Food-For-Work.



WORLD FOOD PROGRAMME

Provides food aid:

In Crisis Situations (80%)

- Complex Emergencies
- Natural Disasters
- Prolonged Relief and Recovery operations

For Development Activities (20%)

WFP Decentralization of Operations

WFP Regional Office of Latin America and the Caribbean

Established in Managua, Nicaragua in 1998

 Provides operational and technical support to WFP Country Offices in the Region

 WFP representation in El Salvador, Nicaragua, Honduras, Guatemala, Haiti, Cuba, Dominican Republic, Colombia, Peru, Ecuador and Bolivia

WFP – Early Warning in Disaster Management

Summary

- WFP Framework for Early Warning System
- WFP Vulnerability Analysis and Mapping Unit
- VAM Concepts
- VAM Standard Analytical Framework
- VAM and Early Warning
- Elements for Early Warning information
- Examples
- Collaboration and Partnership

Advanced Knowledge -> Appropriate Response

Baseline Analysis

Food Security Baseline

WFP knowledge base

Preparedness

Logistics Capacity Assessment (LCAs) Contingency Planning

Early Warning and Assessments

Intervention

Emergency Response



Early Warning System

WFP Early Warning System aims to:

>Use all available information and tools to define areas at risk;

Monitor the climatic and other factors determining the extent of a crisis;

➢Combine the baseline knowledge with the current information to determine the number of people at risk and/or the number of people affected by a disaster.

Early Warning System

Within WFP framework, an Early Warning System has as objectives to :

 Provide information on food security of a country exposed to a risk and alert on any potential food crisis;

•Provide information in order to effectively plan the necessary WFP response;

•Provide in a timely manner information to experts, decision makers in food aid and other humanitarian activities, and donor countries.

Early Warning Information

• WFP Early Warning information :

✓ Always relates to the food insecurity and food needs of a population group;

✓ Must determine if/when food aid is required to assist the population at risk;

 ✓ Estimates the positive impact of food aid, considering the effects of the crisis on livelihoods.

Vulnerability Analysis And Mapping Unit

 Vulnerability Analysis and Mapping Unit (VAM)

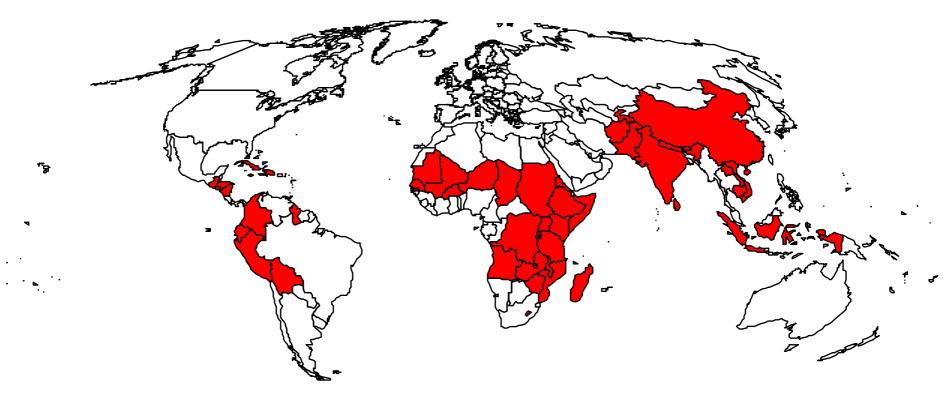
Since 1995 within WFP structure;

Today VAM units in more than 50 countries assisted by WFP in the world;

VAM activities in all 11 countries of the Latin America and the Caribbean Region;

VAM Unit is responsible for providing early warning information related to vulnerability to food insecurity.

WFP : Activities VAM in the world



Types of disasters and WFP early warning capacity

Slow-onset Crisis (Drought)

>WFP VAM analysis / Strong baseline knowledge and early warning information

- Floods
- Earthquakes
- Hurricanes

Risk Analysis review / Baseline knowledge of the risk areas/ Contingency planning

Conflicts

VAM : Food Security-related Concepts

Food Security

"Food Security exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food which meets their dietary needs and food preferences for an active and healthy life".

World Food Summit 1996

Vulnerability

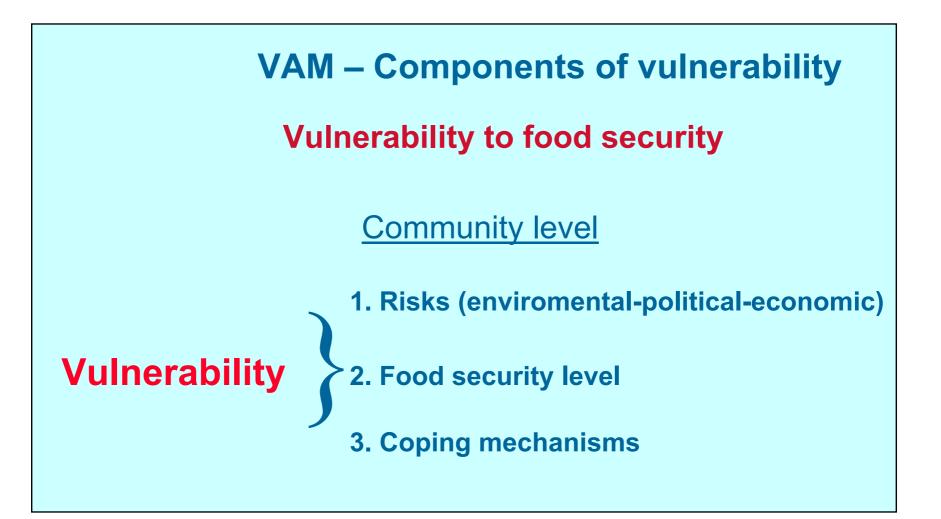
The probability of an acute decline in food access, or consumption, often in reference to some critical values that defines minimum levels of human well-being.

VAM : Food Security-related Concepts

Vulnerability is therefore summarized as follows:

Vulnerability = Exposure to Risk + (In)Ability to Cope

VAM : Food Security-related Concepts



VAM : Food Security-related Concepts



VAM analysis of food security integrates :

- 1. Availability (production)
- 2. Access (market/prices, incomes, purchasing power)
- 3. Utilization (dietary habits)

VAM Standardized Analytical Framework (Since 2000)



- 1. Literature review /Secondary data analysis
- 2. National workshop
- 3. Vulnerability Issues Paper (VIP)
- 4. Participatory field survey
- 5. Vulnerability profiles (PVP)



- a) Geographic targeting
- b) Description vulnerable areas
- c) Identification and description of vulnerable groups
- d) Baseline Analysis
- e) Vulnerability profiles
 - Coping mechanisms
 - Causes and levels of vulnerability
 - Household tipology
 - Household food economy

VAM Standardized Analytical Framework

Through the results of the SAF process, VAM identifies :

Vulnerable areas

(at risk of disasters and/or with poorest and most food insecure population groups)

Vulnerable Groups Characteristics

And provides WFP with:

>Analysis of causes of vulnerability

Recommendation on type of measures needed for an appropriate response

Early Warning and WFP response : Questions to be answered

• Examples:

- What is the production of staple food in Cuba this year?
- Will Ecuador experience a drought this season?
- How were the prices of rice in Guatemala throughout the season?
- Will the hurricane "Isabel" hit Guatemala in the coming days?
- Which areas of Honduras will produce insufficient food ?
- How much food aid will be needed to assist the most vulnerable people?

Early Warning and WFP response : Questions to be answered

 In order to provide the necessary elements needed to respond to these questions, WFP analyzes :

> ✓ Agriculture sector ✓ Markets structure and(dis)functioning Climatic and agro-meteorological information ✓ Satellite images Information Imports/Exports of food - Stocks of food ✓Infrastructures Food Aid beneficiaries of existing programs ✓ Population figures/structure Availability of food Accessibility to food Livelihoods and coping strategies of vulnerable populations ✓ Nutritional status of vulnerable population

Early Warning and WFP response : Elements of analysis

AGRICULTURE

Agro-ecological zones Types of crops / zone Surfaces cultivated Conditions of crops Pests/Diseases Crop calendars Duration of the season Yields

AGROMETEOROLOGICAL INFORMATION

Rainfall performance Water needs for agriculture production Water Balance (FAO Methodology)

SATELLITE IMAGERY

NDVI (Vegetation Index) RFE (Rainfall estimation)

MARKETS

Cereals Prices Stocks Livestock Prices Terms of trade

LIVESTOCK

Numbers and conditions of livestock Pasture conditions

Early Warning and WFP response : Elements of analysis

FOOD IMPORTS/EXPORTS

Quantities imported/exported International and national prices

FOOD AID

Supplied quantities Delivered and distributed quantities Channel of distribution Local market prices Distribution Local Purchase

FOOD STOCKS

Quantities stocked in the country Food conditions Production year

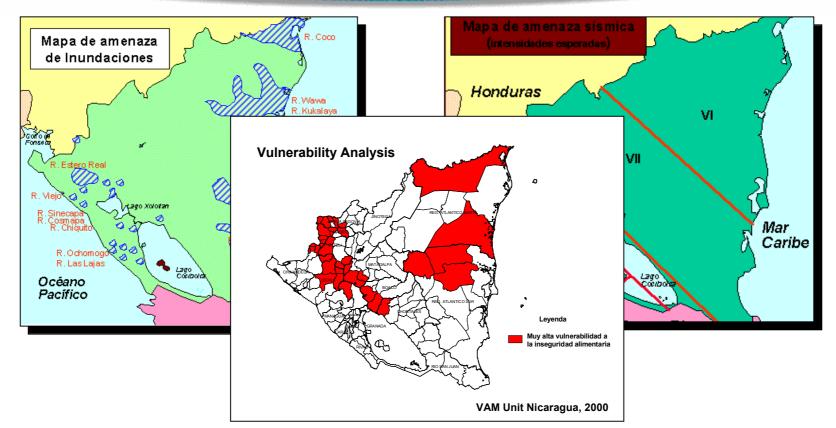
INFRASTRUCTURES

Road network and conditions Location of main warehouses Ports/railroad network

VULNERABLE GROUPS / LIVELIHOODS

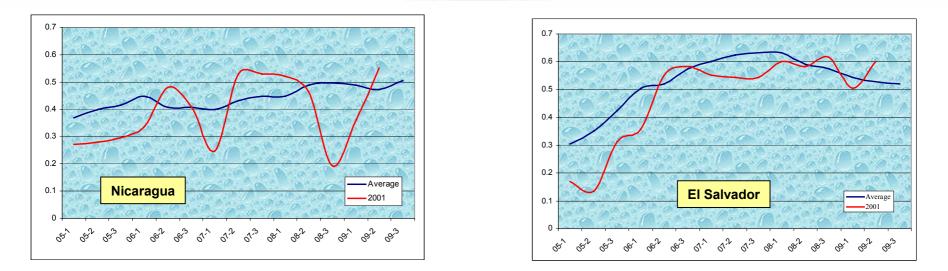
Wealth of different groups in vulnerable areas Income opportunities Coping mechanisms Capacity to respond/cope with disasters Children and women nutritional status

VAM : Risk and Vulnerability Analysis for Early Warning

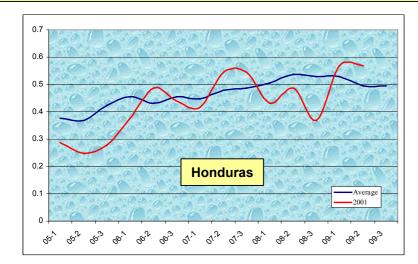


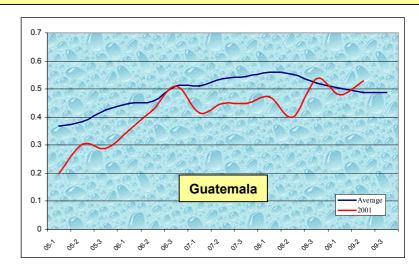
Climatic and Risk Analysis combined with Vulnerability analysis => Provide necessary preliminary information for emergency response

VAM : Climatic Monitoring for Early Warning



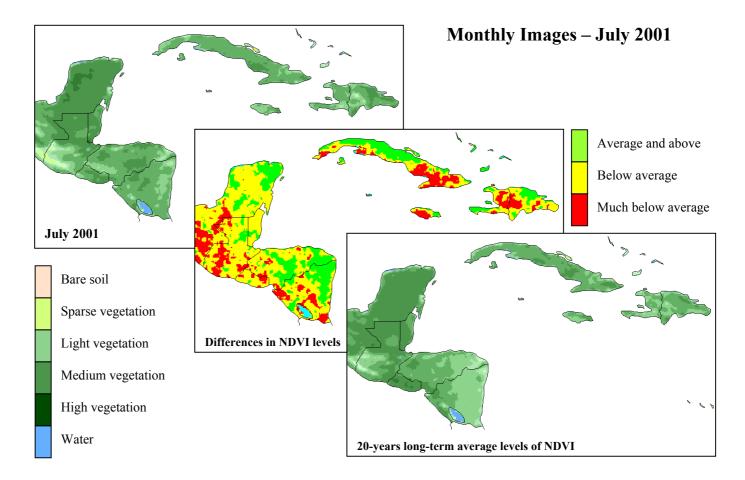
First Season 2001 (End of May – End of September) – Vegetation Index compared to 20-years long term average





VAM : Climatic Monitoring for Early Warning

Identification of geographical areas with higher climatic 'stress' during agricultural season



WFP Response : Combining information to Determine requirements

WFP-VAM Early Warning information is combined with :

- >Field level Assessments (WFP or external)
- **>WFP Monitoring Information**
- Logistics information
- Contingency Planning scenarios/figures

in order to determine the requirements of the affected areas/populations and the consequent emergency response.

Early Warning : complexity and different sources of the information

The information required for early warning within WFP framework for emergencies response comes from several sources :

Analyzed within WFP and U.N. System

Risk and Vulnerability analysis (slow onset crisis) NDVI – Satellite imagery analysis (not produced but 'shaped' for WFP purposes) Agricultural Season monitoring Crop Assessments Field / Community Assessments Distribution and Beneficiaries Monitoring

From External Sources :

Government Early Warning systems' reports Government Field level monitoring Other agencies field reports Specialized agencies' Forecasts/Early Warning information

Early Warning : complexity and different sources of the information

In order to strengthen its Response Capacity, WFP needs and promotes an increased collaboration among agencies and among producers/users of early warning information :

An Early Warning System can be effective only if it is the result of a joint effort among major partners :

- •Governments
- Donors

•U.N. agencies and other organizations involved in food security and vulnerability

•Specialized organizations (providers for high-tech information)

At national level, the Agencies should create working units within the Government structure to:

•Coordinate and disseminate Early Warning information

•Coordinate and collaborate in Emergency Responses

Early Warning System : Complexity and partnership

Early Warning system combines Complexity with

'Heavy' Information requirements...

Therefore

NEED FOR PARTNERSHIP!