

**FAO Agricultural Policy and Economic Development Series** 

Handbook for defining and setting up a Food Security Information and Early Warning System (FSIEWS)



## CONTENTS

	PAGE
Foreword	iii
Acknowledgements	iv
Abbreviations and Acronyms	viii
PART ONE: PRINCIPLES AND CONCEPTS	1
1. Introduction	1
1.1 Historic Background to Food Security Information Systems	1
1.2 Advantages of the FSIEWS Approach	3
1.3 Technical Aspects of the Methodology	4
1.4 Definition of Food Security	4
2. The Concept of Forecasting and Steering	5
Existing Food Security Monitoring Systems	7
3.1 Description of Existing Systems	7
3.2 Constraints of the Systems	13
3.3 Recent Changes in the Socio-Economic Context	15
4. Crisis Management	15
5. The Framework of a FSIEWS	16
PART TWO: STAGES IN DEFINING AND SETTING UP A FSIEWS  Overview	20
Chapter I	
Stage One: Basic Study of Food Security	21
Establishing the Basic Energy Requirements	21
Identifying Vulnerable Groups	23
3 The Risks of Food Insecurity and Specific Constraints	23
Analysis of the Commodity Chain for Staple Foods and Knowledge of the Principal Actors	25
The Basic Study: Creation of Multidisciplinary Working Groups (MWG) and Provincial Committees (PFSC)	27
6. Synthesis of the Basic Study	30
Chapter II	
Stage Two: Detailed Analysis of Available Information	32
Information on Availability of Food	32
Information on Stability of Supplies	32
Information on Constraints Regarding Access for All to Supplies	33
Information on the Biological Utilization of Staple Foods	33
5. Other Information	33
5.1 Food Aid	33
5.2 Population Movements	34
Computer Systems and the Flow of Information	35

	The state of the s	AGE
Chapter III	The state of the s	40
Stoge Three! Ho	ow to Improve Existing Information	40
	Production Monitoring and Harvest Forecasts	41
414	Data Data	45
	Data Analysis	47
1.3	Constraints A Manitoring Production	48
1.4 I	mproving Existing Systems and Monitoring Production	50
<ol><li>Market Information</li></ol>	mation System, Stocks and Marketing	51
2.1	The Institutional Structure of an MIS	51
2.2 I	Data ST Comption	54
2.3 I	Data Analysis and Dissemination of Information	56
2.4 I	Principal Constraints of an MIS	58
3. Vulnerable (	Groups Monitoring System	58
3.1	Vulnerable Groups, or at Risk Food Insecurity	59
3.7	Data	62
3.3	Monitoring Vulnerability During Food Crises	62
4. Find and Mi	strition Surveillance System	6:
4.1	The Institutional Framework and Setting Up an FNSS	
	Data	6
4.3	Data Processing	6
4.4	FNSS in Crisis Management	6
5. Monitoring	Direct Food Aid and Assistance	6
5.1	Monitoring Aid	6
5.2	Setting Up a Monitoring System in Emergency Situations	7
XX7		
Stage Four: Se	tting Up the Food Security Information and Early Warning	
System		-
1 Survey of F	Food Security Information Users	-
1.1	Implementation of the User Survey	-
1.2	Results of the User Survey	-
2. Suggested	Indicators for the Databases and Control Panel	-
2.1 Suggested	The Tandency to Cram in Too Much Information	_
2.2	Development of the Database and Control Panel on the Basis of the	
2,2	Hear Survey	+
2.3	Practicalities of Setting Up the Database and Control Panel	-
2 A Plan for	the Flow of Data and its Management	+
3.1	Information Flowchart	$\bot$
2.2	Data Management and Computers	$\perp$
4. Proposed I	nstitutional Organization for Monitoring Food Security and Managing	
Emergenci	es	+
4.1	The National Food Security Committee	+
4.2	The Secretariat of the National Food Security Committees	+
4.3	Decentralized Food Security Structures (Provincial Food Security	
1	Committees)	1

		PA
<ol><li>Validation of Indicato</li></ol>	ors and the Type and Format of Information to be	
Distributed to Users (	Organizing the National Workshop)	9
5.1 Participa		9
5.2 Documen	nt Preparation	9
5.3 Organizi	ng the Discussions	9
Chapter V		,
Stage Five: Steps to the	Institutionalization of a FSIEWS	1
	National and Provincial Food Security Committees	1
	SC and the FSIEWS	1
	al Committees and the FSIEWS	1
2. Organization of Mult	tidisciplinary Working Groups Monitoring Food Security	1
<ol><li>Establishing Agreem</li></ol>	ent Protocols with Information Providers	_1
4. Gradual Deployment	of the Database and Control Panel	1
5. Mapping and Other S	Software	1
	hic Information Systems	_1
2	Mapping Software	1
	National Food Security's Permanent Secretariat	1
7. Bulletins, Radio or T	Celevision Broadcasts, Updates, etc.	1
8 Regular Supervision	and Improvement of the FSIEWS by the National Food	
Security Committee		1
Deeditely committee		
	'S to Specific National Contexts (Example of Mozambique)	1
PART THREE: SU	STAINABILITY: THE LONG-TERM VIEW	1
PART THREE: SU  1. Regular Updating an	STAINABILITY: THE LONG-TERM VIEW and Evolution of the System	1
PART THREE: SU  1. Regular Updating an  2. Evaluation of the Sy	STAINABILITY: THE LONG-TERM VIEW and Evolution of the System stem	1
PART THREE: SU  1. Regular Updating an  2. Evaluation of the Sy  3. National FSIEWS in	ISTAINABILITY: THE LONG-TERM VIEW and Evolution of the System stem a Regional (Interstate) Context	1 1 1
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes	ISTAINABILITY: THE LONG-TERM VIEW  Ind Evolution of the System  Istem Istem Istem Istem Ister A Regional (Interstate) Context Istorian of National FSIEWS Information	1 1
PART THREE: SU  1. Regular Updating an  2. Evaluation of the Sy  3. National FSIEWS in  3.1 Synthes  3.2 Databas	ad Evolution of the System stem a Regional (Interstate) Context is of National FSIEWS Information ses for Interstate Information	1 1
PART THREE: SU  1. Regular Updating an  2. Evaluation of the Sy  3. National FSIEWS in  3.1 Synthes  3.2 Databas	ISTAINABILITY: THE LONG-TERM VIEW  Ind Evolution of the System  Istem Istem Istem Istem Ister A Regional (Interstate) Context Istorian of National FSIEWS Information	
PART THREE: SU  1. Regular Updating and 2. Evaluation of the Sy 3. National FSIEWS in  3.1 Synthes  3.2 Databas  3.3 A Commute Reg	ISTAINABILITY: THE LONG-TERM VIEW  Ind Evolution of the System Istem In a Regional (Interstate) Context It is of National FSIEWS Information Items for Interstate Information Information Information Food-Security Policy Forum for Decision-Makers in ion	
PART THREE: SU  1. Regular Updating an  2. Evaluation of the Sy  3. National FSIEWS in  3.1 Synthes  3.2 Databas  3.3 A Commute Reg  4. Development of Mu	d Evolution of the System stem a Regional (Interstate) Context is of National FSIEWS Information less for Interstate Information mon Food-Security Policy Forum for Decision-Makers in ion litimedia Resources	
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes 3.2 Databas 3.3 A Comment the Reg 4. Development of Mu 5. The Role of the FSI	ISTAINABILITY: THE LONG-TERM VIEW  Ind Evolution of the System Istem Ist	
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes 3.2 Databas 3.3 A Comment the Reg 4. Development of Mu 5. The Role of the FSI	d Evolution of the System stem a Regional (Interstate) Context is of National FSIEWS Information less for Interstate Information mon Food-Security Policy Forum for Decision-Makers in ion litimedia Resources	
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes 3.2 Databas 3.3 A Commente Reg 4. Development of Mu 5. The Role of the FSI 5.1 Activiti	ISTAINABILITY: THE LONG-TERM VIEW  Ind Evolution of the System Istem Ist	
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes 3.2 Databas 3.3 A Commuthe Reg 4. Development of Mu 5. The Role of the FSI 5.1 Activiti	ISTAINABILITY: THE LONG-TERM VIEW  and Evolution of the System  stem  a Regional (Interstate) Context is of National FSIEWS Information tes for Interstate Information mon Food-Security Policy Forum for Decision-Makers in ion altimedia Resources EWS in the FIVIMS Initiative tes and Aims of the FSIEWS at Global Level  //MS Initiative at National Level	
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes 3.2 Databas 3.3 A Comment the Regular 4. Development of Mu 5. The Role of the FSI 5.1 Activiti 5.2 The FIV	ISTAINABILITY: THE LONG-TERM VIEW  and Evolution of the System  stem  a Regional (Interstate) Context is of National FSIEWS Information tes for Interstate Information mon Food-Security Policy Forum for Decision-Makers in ion altimedia Resources EWS in the FIVIMS Initiative tes and Aims of the FSIEWS at Global Level  //MS Initiative at National Level	
1. Regular Updating an 2. Evaluation of the Sy 3. National FSIEWS in 3.1 Synthes 3.2 Databas 3.3 A Comment the Regular 4. Development of Mu 5. The Role of the FSI 5.1 Activiti 5.2 The FIV	ISTAINABILITY: THE LONG-TERM VIEW  and Evolution of the System  stem a Regional (Interstate) Context is of National FSIEWS Information less for Interstate Information mon Food-Security Policy Forum for Decision-Makers in ion altimedia Resources EWS in the FIVIMS Initiative less and Aims of the FSIEWS at Global Level APPENDICES  APPENDICES	