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Integrated Food Security and Humanitarian Phase Classification: Technical Manual Version I

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FOREWORD AND ACKNOWLEDGEMENTS

Since 1994 FSAU has invested considerable energy to improve the rigour of the unit's food security, nutrition, and livelihoods analysis, and its relevance for decision making. To help meet these goals of rigor and relevance, since February 2004 FSAU has been developing and using a tool called the Integrated Food Security and Humanitarian Phase Classification (IPC). In addition to consistently improving analysis and facilitating effective response in the context of Somalia, there are strong indications that the IPC is relevant on a wider scale, as it serves as a 'common currency' for food security and humanitarian analysis.

This manual provides technical guidance to the use of IPC among FSAU analysts and technical partners, and will hopefully contribute to on-going global efforts to standardize core elements of humanitarian analysis and response (e.g., the SMART, Benchmarking, Needs Analysis Framework, Humanitarian Tracking Service, and Sphere Project).

The IPC builds from aspects of many existing classification systems and academic literature. The practical strength of the IPC, however, is that it was developed through the every day realities of conducting food security analysis and linking it to action within the context of a complex emergency. In addition, the IPC development has benefited from technical feedback of expert practitioners and high level decision makers through dozens of forums in Africa, Asia, Europe, and the USA. Appendix 7.1 lists just some of these meetings, for whom we are extremely grateful for their technical input.

Within FSAU the IPC has been an on-going technical dialogue among all of our Nairobi based analysts including: Noreen Prendiville, Cindy Holleman, Yusuf Mohamed, Ali Duale, Thomas Gabrielle, Simon Narbeth, Veena Sampathkumar, Zainab Jama, James Kingori, Sicily Matu, Ahono Busili, Bernard Owadi, Tom Oguta, Achoka Luduba, Carol Kingori, and Francis Barasa. FSAU has a close partnership with FEWS NET Somalia, and both Mohamed Aw-Dahir and Sidow Addou have been directly involved in the IPC development. FSAU field staff has also made substantial input. Special thanks to Cindy, Noreen, Thomas, and Veena for their technical editing of this manual.

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LIST OF ACRONYMS

ACF	Action Contra la Faim
ALRMP	Arid Lands Resource Management Project
AP	Associated Press
BBC	British Broadcasting Corporation
CAP	Consolidated Appeals Process
CDC	Center for Disease Control
CILSS	Committee for Drought Control in the Sahel
CMR	Crude Mortality Rate
CNN	Cable News Network
CSI	Coping Strategies Index
DFID	UK Department for International Development
EC	European Commission
EFNA	Emergency Food Needs Assessment
FANTA	USAID Food and Nutrition Technical Assistance
FAO	UN - Food and Agriculture Organization
FAQs	Frequently Asked Questions
FEG	Food Economy Group
FEWS NET	Famine Early Warning Systems Network.
FIVIMS	Food Insecurity and Vulnerability Information and Mapping Systems
FNPP	FAO/Netherlands Partnership Programme
FSAS	Food Security Analysis System
FSAU	Food Security Analysis Unit - Somalia
GAM	Global Acute Malnutrition
GHA	Greater Horn of Africa
GIEWS	Global Information Early Warning System
HEA	Household Economy Approach
HPG	Humanitarian Policy Group
IASC	UN Inter-agency Standing Committee
ICRC	International Committee of the Red Cross
IDS	Institute of Development Studies
IPC	Integrated Food Security and Humanitarian Phase Classification
IRIN	Integrated Regional Information Networks
Kcal	Kilo calories
LRRD	Linking Relief, Recovery, and Development
LUCC	Land Use and Land Cover Change
MSF	Medecins Sans Frontieres
MUAC	Mid-Upper Arm Circumference
NAF	Needs Analysis Framework
NGO	Non-governmental Organization
ODI	Overseas Development Institute
SCF - UK	Save the Children – United Kingdom
SCN - UN	UN Standing Committee on Nutrition
SENAC	Strengthening Emergency Needs Assessment Capacity
SLA	Sustainable Livelihoods Approach
SMART	Standardized Monitoring and Assessment of Relief and Transitions
UN/OCHA	United Nations Office for the Coordination of Humanitarian Affairs
UNAIDS	The Joint United Nations Programme on HIV/AIDS
UNDP	United Nations Development Programme
UNHCR	United Nations High Commissioner for Refugees
UNICEF	United Nations Children's Fund
USAID	United States Agency for International Development
VOA	Voice of America
WFP	World Food Programme
WFS	World Food Summit

1. EXECUTIVE SUMMARY

Within the cross-cutting fields of food security and humanitarian analysis there are increasingly strong calls for improved analysis, including: greater **comparability** of results from one place to another, increased **rigour**, greater **transparency** of evidence to support findings, increased relevance to strategic **decision making**, and stronger linkages between information and **action**. Improving analysis along these lines would enable food security and humanitarian interventions to be more **needs-based**, **strategic**, and **timely**.

Central to meeting these challenges is the development of a classification system that is **generic** enough to be utilized in a vast array of food security situations, disaster types, and livelihood systems; **simple** enough to be practical in the field and understandable by multiple stakeholders; and **rigorous** enough to meet internationally accepted standards.

Since February 2004 the Food Security Analysis Unit for Somalia (FSAU¹) has been using and progressively developing a tool to meet these challenges called the **Integrated Food Security and Humanitarian Phase Classification** (IPC²). Drawing from extensive literature on international humanitarian guidelines, aspects of existing classification systems, and *in situ* analysis of food security in Somalia, the IPC has consistently proven to improve analysis and enable more effective response.

The IPC summarizes **Situation Analysis**, a distinct, yet often overlooked (or assumed) stage of the food security analysis-response continuum. Situation Analysis is a foundational stage whereby fundamental aspects (severity, causes, magnitude, etc) of a situation are identified—aspects for which there is optimally broad-based consensus by key stakeholders including governments, UN and NGO agencies, donors, the media, and target communities.

The analytical logic of the IPC is that varying phases of food security and humanitarian situations are classified based on outcomes on lives and livelihoods. Outcomes are a function of both immediate hazard events along with underlying causes, and the specific vulnerabilities of livelihood systems (including both livelihood assets and livelihood strategies). The outcomes are referenced against internationally accepted standards, and their convergence substantiates a phase classification for any given area. Each phase is associated with a unique strategic response framework, while the outcome configuration for any given situation guides the development of the most appropriate responses within that framework. While the phase classification describes the current or imminent situation for a given area, early warning levels are a predictive tool to communicate the risk of a worsening phase. Risk is a function of the probability of a hazard event, exposure, and the specific vulnerabilities of livelihood systems.

The IPC consists of four components including the core **Reference Table**, along with supporting components of **Analysis Templates**, **Cartographic Protocols**, and **Population Tables**.

The IPC **Reference Table** guides analysis for both the **Phase Classification** and **Early Warning Levels**. The Phase Classification is divided into five **Phases**—**Generally Food Secure**, **Chronically Food Insecure**, **Acute Food and Livelihood Crisis**, **Humanitarian Emergency**, and **Famine/Humanitarian Catastrophe**. The five phases are general enough to accommodate a wide range of causes, livelihood systems, and political/economic contexts—yet their distinction captures essential differences in implications for action (including strategic design, urgency, and ethical imperative). A comprehensive set of **Key Reference Outcomes** on human welfare and livelihoods are associated with each Phase to guide the classification, including: *crude mortality rate*, *acute malnutrition*, *disease*, *food access/availability*, *dietary diversity*, *water access/availability*, *destitution and displacement*, *civil security*, *coping*, and *livelihood assets*. The breadth of outcomes enables triangulation and ensures adaptability of the IPC to a wide variety of situations. Referencing the outcomes to international standards ensures comparability and consistency of the phase classification in different countries and contexts. The **Strategic Response Framework** unique to each Phase provides strategic, yet generic guidance to achieve three objectives: (1) mitigate immediate negative outcomes, (2) support livelihoods, and (3) address underlying/structural causes.

The Reference Table also includes three **Early Warning Levels**: (1) **Alert**, (2) **Moderate Risk**, (3) **High Risk**. Each of these is associated with key information required for effective early warning: **Probability**, **Severity**, **Reference Hazards and Vulnerabilities**, **Implications for Action**, and **Timeline**.

The **Analysis Templates** are tables which organize key pieces of information in a transparent manner and facilitate analysis to substantiate a Phase Classification and guide response analysis. The **Cartographic Protocols** are a set of standardized mapping and visual communication conventions which are designed to effectively convey key information concerning situation analysis on a single map. The **Population Tables** are a means to consistently and effectively communicate population estimates by administrative boundaries, livelihood systems, and livelihood types.

The IPC is not an assessment method, *per se*, but a classification system for Situation Analysis that integrates multiple data sources, methods, and analyses (example options for specific assessment methodologies include those endorsed by WFP, ICRC, Save the Children UK, and many others). Effective use of the IPC encourages a mixed-method approach which is obligatory given the complexity of the analysis and the need for triangulation. In this manner, the IPC provides a consistent and meaningful structure to the final statement. To substantiate an IPC statement, whatever the specific methodologies, the legitimacy of data sources and analytical methods is rigorously evaluated and reflected in the overall confidence level.

The IPC does not replace existing food security information systems or methodologies. It is a complimentary ‘add-on’ that draws from and provides focus to existing analytical systems, enables comparability, and explicitly links analysis to action. The IPC is adaptable by a broad range of information systems with regards to data availability, methodological approach, and human capacity.

The IPC emphasizes food security analysis through a livelihoods approach, but recognizes that it is impossible to separate food insecurity from associated sectoral crises in the fields of health, water, protection, sanitation, shelter, and others. There is highly dynamic interplay between these sectors, especially as situations deteriorate they often times co-exist and stress on one likely leads to stresses on others. Thus the IPC emphasizes food security analysis while integrating related humanitarian concerns. The IPC is not meant, however, to substitute for more refined analysis of any particular sector.

The IPC draws together multiple aspects of food security and humanitarian analysis, thus the word ‘integrated’ in its title. It is *integrated* in a number of dimensions, including:

- aspects of existing classification systems
- the breadth of food security phases, not just emergency situations
- food security and nutrition
- *lives and livelihoods*
- process indicators and outcomes
- *information and action*
- relief, rehabilitation, recovery, and development
- short and long term perspectives
- concepts and practice
- academic standards and field practicalities
- accountability of analysis and response

Perhaps most importantly, the IPC provides a much needed common currency for food security and humanitarian analysis.

In the context of FSAU, the IPC fits within the overall conceptual, operational, and analytic framework of the Food Security Analysis System (FSAS), a means of conducting multi-faceted aspects of food security analysis through a livelihoods and evidence-based approach (Appendix 7.3).³ The IPC has proven effective as a means to communicate complex analysis to UN, NGO and government agencies, donors and media -- and has increased response effectiveness and ensured greater analytical transparency and accountability.

The highly dynamic and complex nature of food security analysis in the context of Somalia has provided a vibrant “developing-ground” for the IPC—with multiple livelihood systems ranging from cropping to fishing to pastoralism, and a variety of hazards ranging from floods to drought to civil insecurity to the Tsunami (FSAU 2005). Most importantly, the IPC has been developed *in-situ*—drawing from academic literature and international guidelines, but driven first and foremost by the realities of conducting food security analysis on a day-to-day basis and linking information to action (see Appendix 7.4 & 7.5).

The manual is targeted at: (1) FSAU analysts and technical partners to guide the consistent usage of the IPC, (2) other food security and humanitarian analysts in governments and UN/NGO agencies who might be interested in applying the IPC in different country contexts, (3) the academic community who can provide further technical guidance towards its development, (4) the global food security and humanitarian community who may draw from the IPC in their efforts to standardize analysis, and (5) the donor community who may be interested in what the IPC can offer for increasing accountability and rationalizing resource allocation.

The manual begins with a discussion of why a common classification system is needed as well as a brief review of existing classification systems. The paper next provides technical details of the concepts and practice of using the

IPC. The paper ends with a discussion on the potential for broader applicability of the IPC to other country, regional, and global contexts and future challenges.

At FSAU the IPC has been revised and improved in many versions⁴ based on an iterative development process which has been supported by dozens of presentations and feedback from hundreds of food security professionals (Appendix 7.1). Although the IPC has proven useful in the present form, it is certain that there will be more iteration, and it is hoped that this paper will solicit feedback for further development.

Footnotes

¹ FSAU is implemented by the UN Food and Agriculture Organization (FAO), and funded by the European Commission (EC) and the United States Agency for International Development (USAID)

² IPC is a short-hand acronym including the terms *integrated phase classification*.

³ FSAU's Food Security Analysis System (FSAS) is an overarching framework to integrate conceptual, analytical, and operational components of food security analysis through a livelihoods approach. Core analytical components of the FSAS include: Baseline Livelihoods Analysis, Seasonal Food Security Projections, Emergency Food Security and Nutrition Assessments, Key Indicator Monitoring, Nutrition Analysis, and Applied Research. Other core components include: Information Management System, Communication Strategy, Management, and Partner Networking. Core analytical sectors include: climate, agriculture, livestock, markets, nutrition, and civil security (FSAU 2004b). For more details visit www.fsausomali.org

⁴ For previous versions of the IPC tool see FSAU Technical Series IV.2/3/4/7/8 and for previous citations see Devereux and Howe (2004), Young et al. (2005) and Heimrich (2005).

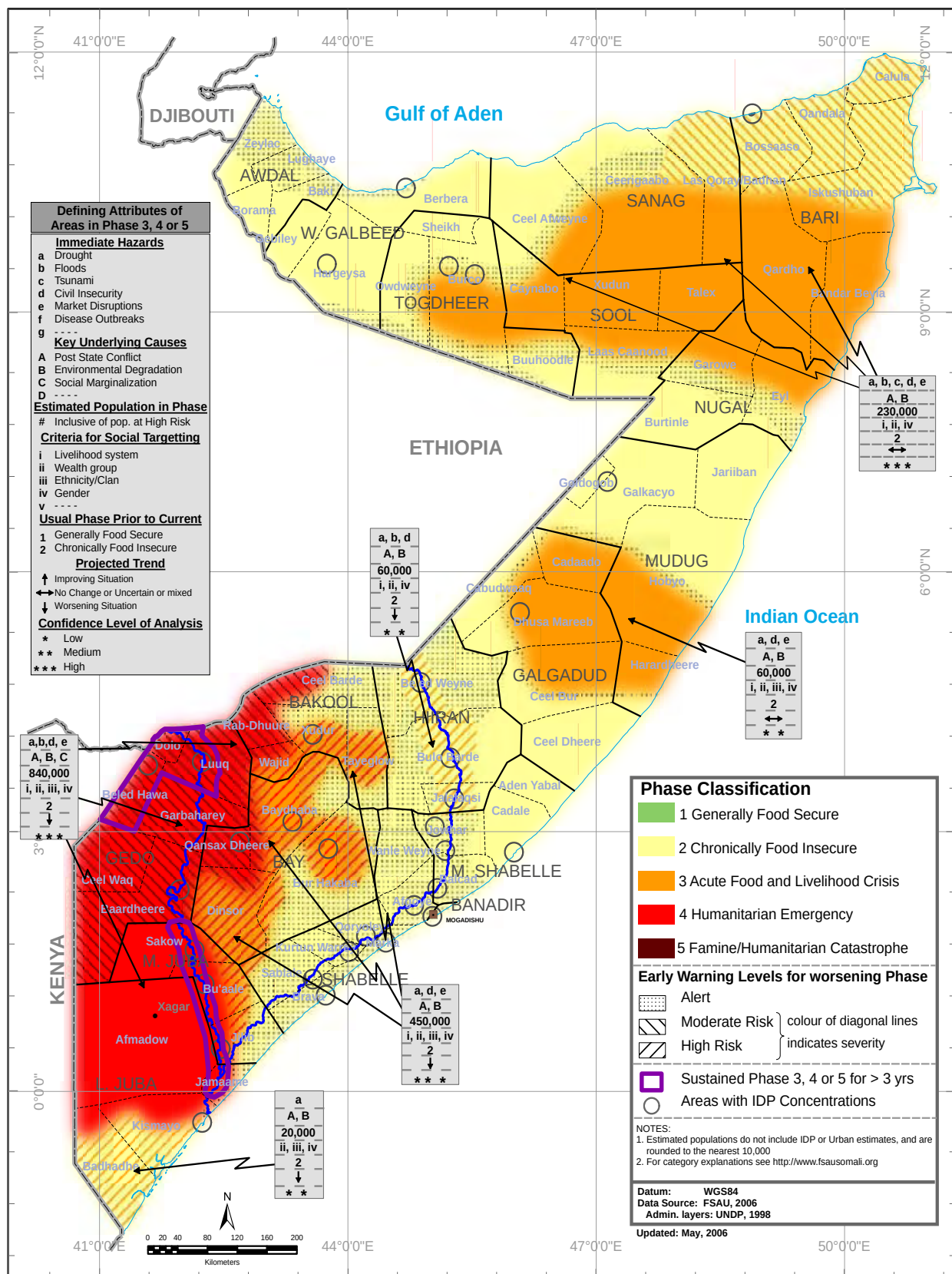
Table 1: Integrated Food Security and Humanitarian Phase Classification Reference Table

Phase Classification		Key Reference Outcomes (current or imminent outcomes on lives and livelihoods; based on convergence of evidence)	Strategic Response Framework (mitigate immediate outcomes, support livelihoods, and address underlying/structural causes)
1	Generally Food Secure	<i>Crude Mortality Rate</i> < 0.5 / 10,000 / day <i>Acute Malnutrition</i> < 3 % (w/h < 2 z-scores) <i>Stunting</i> < 20% (w/age < 2 z-scores) <i>Food Access/ Availability</i> usually adequate (> 2,100 kcal ppp day), stable <i>Dietary Diversity</i> consistent quality and quantity of diversity <i>Water Access/Avail.</i> usually adequate (> 15 litres ppp day), stable <i>Hazards</i> moderate to low probability and vulnerability <i>Civil Security</i> prevailing and structural peace <i>Livelihood Assets</i> generally sustainable utilization (of 5 capitals)	Strategic assistance to pockets of food insecure groups Investment in food and economic production systems Enable development of livelihood systems based on principles of sustainability, justice, and equity Prevent emergence of structural hindrances to food security Advocacy
2	Chronically Food Insecure	<i>Crude Mortality Rate</i> < 0.5/10,000/day; USMR < 1/10,000/day <i>Acute Malnutrition</i> > 3% but < 10 % (w/h < 2 z-score), usual range, stable <i>Stunting</i> > 20% (w/age < 2 z-scores) <i>Food Access/ Availability</i> borderline adequate (2,100 kcal ppp day); unstable <i>Dietary Diversity</i> chronic dietary diversity deficit <i>Water Access/Avail.</i> borderline adequate (15 litres ppp day); unstable <i>Hazards</i> recurrent, with high livelihood vulnerability <i>Civil Security</i> Unstable; disruptive tension <i>Coping</i> 'insurance strategies' <i>Livelihood Assets</i> stressed and unsustainable utilization (of 5 capitals) Structural Pronounced underlying hindrances to food security	Design & implement strategies to increase stability, resistance and resilience of livelihood systems, thus reducing risk Provision of 'safety nets' to high risk groups Interventions for optimal and sustainable use of livelihood assets Create contingency plan Redress structural hindrances to food security Close monitoring of relevant outcome and process indicators Advocacy
3	Acute Food and Livelihood Crisis	<i>Crude Mortality Rate</i> 0.5-1 /10,000/day, USMR 1-2/10,000/dy <i>Acute Malnutrition</i> 10-15 % (w/h < 2 z-score), > than usual, increasing <i>Disease</i> epidemic; increasing <i>Food Access/ Availability</i> lack of entitlement; 2,100 kcal ppp day via asset stripping <i>Dietary Diversity</i> acute dietary diversity deficit <i>Water Access/Avail.</i> 7.5-15 litres ppp day, accessed via asset stripping Destitution/Displacement emerging; diffuse <i>Civil Security</i> limited spread, low intensity conflict <i>Coping</i> 'crisis strategies'; CSI > than reference; increasing <i>Livelihood Assets</i> accelerated and critical depletion or loss of access	Support livelihoods and protect vulnerable groups Strategic and complimentary interventions to immediately ↑ food access/availability AND support livelihoods Selected provision of complimentary sectoral support (e.g., water, shelter, sanitation, health, etc.) Strategic interventions at community to national levels to create, stabilize, rehabilitate, or protect priority livelihood assets Create or implement contingency plan Close monitoring of relevant outcome and process indicators Use 'crisis as opportunity' to redress underlying structural causes Advocacy
4	Humanitarian Emergency	<i>Crude Mortality Rate</i> 1-2 / 10,000 / day, > 2x reference rate, increasing; USMR > 2/10,000/day <i>Acute Malnutrition</i> > 15 % (w/h < 2 z-score), > than usual, increasing <i>Disease</i> pandemic <i>Food Access/ Availability</i> severe entitlement gap; unable to meet 2,100 kcal ppp day <i>Dietary Diversity</i> Regularly 2-3 or fewer main food groups consumed <i>Water Access/Avail.</i> < 7.5 litres ppp day (human usage only) Destitution/Displacement concentrated; increasing <i>Civil Security</i> widespread, high intensity conflict <i>Coping</i> 'distress strategies'; CSI significantly > than reference <i>Livelihood Assets</i> near complete & irreversible depletion or loss of access	Urgent protection of vulnerable groups Urgently ↑ food access through complimentary interventions Selected provision of complimentary sectoral support (e.g., water, shelter, sanitation, health, etc.) Protection against complete livelihood asset loss and/or advocacy for access Close monitoring of relevant outcome and process indicators Use 'crisis as opportunity' to redress underlying structural causes Advocacy
5	Famine / Humanitarian Catastrophe	<i>Crude Mortality Rate</i> > 2/10,000 /day (example: 6,000 /1,000,000 /30 days) <i>Acute Malnutrition</i> > 30 % (w/h < 2 z-score) <i>Disease</i> pandemic <i>Food Access/ Availability</i> extreme entitlement gap; much below 2,100 kcal ppp day <i>Water Access/Avail.</i> < 4 litres ppp day (human usage only) Destitution/Displacement large scale, concentrated <i>Civil Security</i> widespread, high intensity conflict <i>Livelihood Assets</i> effectively complete loss; collapse	Critically urgent protection of human lives and vulnerable groups Comprehensive assistance with basic needs (e.g. food, water, shelter, sanitation, health, etc.) Immediate policy/legal revisions where necessary Negotiations with varied political-economic interests Use 'crisis as opportunity' to redress underlying structural causes Advocacy

Early Warning

Early Warning Levels	Probability / Likelihood (of worsening Phase)	Severity (of worsening phase)	Reference Hazards and Vulnerabilities	Implications for Action
Alert	As yet unclear	Not applicable	<i>Hazard:</i> occurrence of, or predicted event stressing livelihoods; with low or uncertain vulnerability <i>Process Indicators:</i> small negative change from normal	Close monitoring and analysis
Moderate Risk	Elevated probability / likelihood	Specified by predicted Phase Class, and as indicated by color of diagonal lines on map.	<i>Hazard:</i> occurrence of, or predicted event stressing livelihoods; with moderate vulnerability <i>Process Indicators:</i> large negative change from normal	Close monitoring and analysis Contingency planning Step-up current Phase interventions
High Risk	High probability; 'more likely than not'		<i>Hazard:</i> occurrence of, or strongly predicted major event stressing livelihoods; with high vulnerability <i>Process Indicators:</i> large and compounding negative changes	Preventative interventions—with increased urgency for High Risk populations Advocacy

Map 1: Somalia Situation Analysis, Post Deyr 2005/06 Projection, January 2006 through June 2006



2. BACKGROUND

2.1 The Need for a Food Security and Humanitarian Phase Classification System

Based on a global review of needs assessment practice, the Overseas Development Institute (ODI) HPG Report ‘*Accord to Need? - Needs assessment and decision-making in the humanitarian sector*’ (Darcy and Hofmann, 2003), identifies a critical gap in food security and needs assessment practice. While there is a broadly accepted definition of food security¹, there is a lack of clarity and common definitions for classifying various situations in terms of varying severity and implications for action. This lack of clarity is operationally problematic because the way in which a situation is classified determines not only the form of response, but the source of funding and scale, planning timeframe and the organizational roles of different stakeholders. There is an urgent practical and operational need for a broadly accepted food security and humanitarian classification system.

This ‘gap’ and lack of clarity is well recognized and appreciated by analysts, donors, governments, implementing agencies, academics and the media. Projects such as, the EC/WFP Strengthening Emergency Needs Assessment Capacity (SENAC) project, the EC/FAO Project for Linking Information to Action, and the FAO/Netherlands Partnership Programme (FNPP) all are focused on improving food security assessment practices in order to elicit more effective response. NGO’s also are investing in improvements in assessment practices, including Save the Children, Oxfam, CARE, World Vision, and others. Also guiding and contributing to this dialogue are academic institutions, such as Institute of Development Studies (IDS) in Sussex, Tufts University, Tulane University, and ODI.

There are a number of ongoing initiatives to improve and develop global food security classifications systems. Inter-agency and global initiatives include the Standardized Monitoring and Assessment of Relief and Transitions SMART (SMART 2006), the DFID sponsored Benchmarking effort (DFID 2005), and the WHO led Humanitarian Tracking System. Coming to an agreement on a means of classifying humanitarian situations is also identified as a priority activity within the UN Inter-Agency Standing Committee as part of the ongoing humanitarian reform efforts (OCHA 2006). In practice, many within the food security and humanitarian community are working towards a consensus on classifying food security situations with increasing attention to humanitarian principles and accountability.

Lessons learned from the last decade of humanitarian crisis assessment and response experience serve to highlight several key challenges that can help to inform the development of a global food security classification system. In summary, a classification system needs to enable:

- **Technical Consensus:** Humanitarian crises always involves multiple stakeholders, and their response is much more effective (whether for leveraging resources or coordination) if there is technical consensus on the situation analysis. Without *common terminology and criteria*, such consensus is very difficult to build, and can be undermined by non-technical agendas.
- **Comparability Over Space:** In order to ensure the best use of limited resources, decision makers¹ need to know how the severity of crisis situations compares from one place to another. Only when such a comparison can be made using commonly adopted criteria can humanitarian assistance be best directed to the people most in need.
- **Comparability over Time:** Decision makers need to be able to understand the evolution of a crisis as it worsens and improves in order to increase, decrease, or change the strategic focus of the response as well as identify exit criteria².
- **Transparency through Evidence-Based Analysis:** Analysts should be fully transparent in how conclusions are made, and decision makers should demand evidence to support findings. Without reference criteria the requirements for an adequate evidence base remain ambiguous.
- **Accountability:** Without consensual standards in reference characteristics ‘analytical’ accountability is not possible. There is a strong need of reference characteristics to avoid errors of commission (meaning exaggerating a crisis and/or over response) or errors of omission (meaning ‘missing’ or understating a crisis and/or

Footnotes

¹The term ‘decision makers’ is broadly used to include donors, implementing agencies, government officials, the media, and any other stakeholder that utilizes humanitarian information to inform action. Decision makers are distinct from ‘analysts’, whose responsibility it is to provide relevant, reliable, and timely information.

²Food security exists when all people, at all times, have physical and economic access to sufficient, safe and nutritious food for a healthy and active life’, World Food Summit Plan of Action, 1996.

lack of response). The former can waste resources and undermine livelihoods, while the latter can lead to loss of human lives and chronic poverty. With reference criteria and evidence standards it is possible to enforce accountability from those responsible for analyses.

- **Clear Early Warning:** Decision makers need to know the potential severity, likelihood, and timing of a pending crisis. Without a common understanding for describing crises, early warning messages can be ambiguous and go unheeded.
- **More Strategic Response:** Depending on the specific severity level of a given food security or humanitarian situation, there is a need for fundamentally different emphases in strategic response. Further, the menu of options for mitigating a crisis needs to be fully evaluated, rather than resorting to a 'supply-side' driven response.

2.2 Review of Existing Food Security Classifications Systems

Classification systems are not new, as means of classifying famines date back to the 1880's Indian Famine Codes (Brennan 1984, Howe and Devereux 2004). In practice, classification of some type is necessary in order to make sense of situation analyses and communicate this to decision makers. Currently there are a numerous ways in which food security and humanitarian situations are defined and classified. Agencies such as Oxfam, WFP, FAO GIEWS, MSF, FEWS NET, and many others have developed different systems for classifying food security crisis situations.

Depending on the country, institutions involved, and persons doing the analysis, classification systems differ. Currently operational systems can be roughly divided into four broad types: 'relative terms', 'guiding definitions', 'specific aspect' and 'referenced threshold' classifications. A comprehensive review of the different system is not presented here, but rather a brief review that identifies aspects of selected systems and illustrates differences and weaknesses (see Atkinson/Oxfam forthcoming and Darcy and Hoffman 2003 for comprehensive comparative reviews).

Classification Systems Based on 'Relative Terms'

The most common classification system in use utilizes adjective variations on terms such as 'vulnerable', 'food insecure', 'hotspot' to describe or classify different food insecurity situations. This type of classification system is based on **relative terms** whose actual meaning is open to interpretation and is applied differently depending on the interpretation chosen. This classification approach can have internal integrity when used within a particular country or context, enabling people or geographic areas to be identified and prioritized. As such they can be effective in drawing attention to priority areas within a given system, and imply a degree of severity.

These 'relative terms' are generally not accompanied, however, by uniform reference characteristics, opening their use to bias and leading to ambiguous or subjective categorization. As such, systems based on relative terms typically do not enable technical consensus and are not comparable over space and time. The ambiguity inherent in the relative terms and the lack of clear reference characteristics often means that transparency and accountability are not achieved.

Classification Systems Based on 'Guiding Definitions'

Other classification systems utilize consistent 'guiding definitions' to arrive at a classification. An example of guiding definitions are the current FEWS NET alert levels (FEWSNET, 2005), whereby geographic areas and countries are divided into levels of *Emergency*, *Warning*, *Watch*, *Concern*, or *No Alert*³. Associated with each of these terms is a definition that guides its consistent usage (Appendix 7.6). Further, the choice of classification terms is meant to evoke different actions, and the guiding definition incorporates broad implications for decision making.

Another example of a system using guiding definitions is the Kenya Arid Lands Resource Management Project (AL-RMP), where stages of *Normal*, *Alert*, *Alarm*, and *Emergency* are associated with guiding definitions (Appendix 7.7). Additional examples of systems using guiding definitions are Oxfam's severity typology that uses *Type 1*, *Type 2*, and *Type 3*, which describes varying levels of food and nutrition crisis, and FAO's Global Information Early Warning System (GIEWS) which categorizes countries based on shortfalls of food supply and access.

While intended to provide guidance on their usage, the 'guiding definitions' are generally descriptive and open to wide-ranging interpretation. For example, some places may be classified as an 'emergency' but are actually less severe than a different place being analyzed by different analysts, and vice-versa. The lack of clear reference characteristics associated with the guiding definitions, means there is an appearance of comparability over space and time, but this comparability is ambiguous with little consistency and transparency in evidence and accountability.

Footnote

³FEWS NET is currently developing a revised version of this alert system.

Classification System Based on ‘Specific Aspects’

Other classification systems are based on specific aspects of a crisis and use that as a means to categorize situations. One example is the MSF nutrition guidelines (2000), whereby stages of food insecurity are referenced against stages of coping mechanisms. These are divided into *Insurance Strategies*, *Crisis Strategies*, and *Distress strategies*, which are further defined in terms of the severity of coping behaviors employed. Other examples of this classification system are the conflict typologies developed by Samarasinghe, et al. (1999) for USAID and the Swiss Peace FAST conflict early warning system developed by Krummenacher et al (2001). The latter systems focus on nuanced aspects of conflict to create typologies.

Specific aspect systems, while effective for classifying one particular aspect of a crisis, have limited flexibility for varying contexts and do not capture inter-linkages of various sectors or reference characteristics. Although transparent and comparable of space and time, these classification systems do not necessarily adequately reflect overall food security and humanitarian situations as they are limited to only specific aspects or factors.

Classification Systems Based on ‘Referenced Thresholds’

‘Referenced Threshold’ classification systems identify measurable indicators of food insecurity and set cut-offs limits for determining various stages. Typically these ‘measurable’ indicators are outcome oriented and based on anthropometry, including malnutrition and mortality. Examples of this approach are the Famine Magnitude Scale developed by Howe and Devereux (2004) and the Food Insecurity Classification developed by Darcy and Hoffman (2003).

The Famine Magnitude Scale of Howe and Devereux includes six levels of famine intensity including: *Food Security Conditions*, *Food Insecurity Conditions*, *Food Crisis Conditions*, *Famine Conditions*, *Severe Famine Conditions*, and *Extreme Famine Conditions*. Each level is referenced against specific malnutrition and mortality thresholds as well as general descriptors of livelihoods. This scale of intensity is further complimented with a magnitude scale that identifies various categories of magnitude according to the mortality figures as a result of a crisis (Appendix 7.8).

Darcy and Hoffman’s classification of food insecurity includes four levels: *Chronic Food Insecurity*, *Acute Food Crisis*, *Long-term Food Crisis*, and *Famine*. Each of these levels is associated with specific malnutrition and mortality rates, as well as general food security indicators. This classification also associates each level with general responses.

Both of these initiatives explicitly strive to make the classification comparable over space and time through referencing the classification to internationally accepted, quantifiable criteria. They are limited, however, in that the referenced thresholds are focused on a limited set of ‘outcome’ indicators, i.e. malnutrition and mortality. Other general food security outcome indicators are included in the Famine Magnitude Scale, but only as guiding definitions without reference thresholds.

3. OVERVIEW OF THE IPC AND ‘SITUATION ANALYSIS’

To address the key challenges noted previously the FSAU has developed the Integrated Food Security and Humanitarian Phase Classification (IPC), building on the strengths of each of the main types of classification systems previously described and making some unique contributions.

The IPC enables a *composite analytical statement* on food security and humanitarian situations, drawing together multiple indicators of human welfare and livelihoods to guide consistent and meaningful analysis. Use of the IPC builds upon, but is a separate process from methodologies used to collect and analyze specific data sets. The IPC includes a suite of tools to help guide and summarize ‘Situation Analysis’.

The IPC helps meet the goals of the Humanitarian Charter (Sphere 2004), as well as numerous international conventions asserting human rights such as the World Food Summit Plan of Action (FAO 1996). The IPC is designed around the broad conceptual frameworks for food security analysis including the four pillars of access, availability, utilization, and stability; the well recognized UNICEF model of nutrition analysis (UNICEF 1996); and Sen’s entitlement analysis (1981). Analytically, the IPC draws from a broad interpretation of a *livelihoods approach* (FSAU 2004); which includes both *livelihood strategies*, drawn from the Household Economy Approach (SCF-UK 2000), and *livelihood assets*, drawn from the Sustainable Livelihoods Approach (Frankenburger 1992, DFID 2001).

3.1 Analytical Logic of the IPC

The IPC is a means to classify varying stages of food security and humanitarian situations based on outcomes on lives and livelihoods. Outcomes are a function of both immediate hazard events along with underlying causes, and the specific vulnerabilities of livelihood systems (including both livelihood assets and livelihood strategies). The outcomes are referenced against internationally accepted standards, and their convergence substantiates a phase classification for any given area. Each phase is associated with a unique strategic response framework, while the outcome configuration for any given situation guides the development of the most appropriate responses within that framework. While the phase classification describes the current or imminent situation for a given area, early warning levels are a predictive tool to communicate the risk of a worsening phase. Risk is a function of the probability of a hazard event, exposure, and the specific vulnerabilities of livelihood systems. Note, in the case of the phase classification and associated outcomes, hazard and vulnerability analysis enables understanding the causes and dynamics of a situation. In the early warning levels, however, analysis of hazards and vulnerability informs a risk statement, including the probability and severity of a worsening situation.

3.2 Components of the IPC

The IPC integrates a suite of tools including the core tool of a **Reference Table**, along with supporting tools of **Analysis Templates**, **Cartographic Protocols**, and **Population Tables**.

The IPC **Reference Table** guides analysis for both the **Phase Classification** and **Early Warning Levels**. The Phase Classification classifies geographic areas and social groups into one of five **Phases**—*Generally Food Secure*, *Chronically Food Insecure*, *Acute Food and Livelihood Crisis*, *Humanitarian Emergency*, and *Famine/Humanitarian Catastrophe*. A set of **Key Reference Outcomes** are associated with each Phase to guide the analytical statement. These are drawn from internationally accepted standards, and represent a breadth of outcomes on human welfare and livelihoods to enable triangulation and ensure adaptability of the IPC to a wide variety of situations. To facilitate linking information to action, each Phase is associated with a **Strategic Response Framework** that provides strategic, yet generic guidance to enable achieving three objectives: (1) mitigate immediate negative outcomes, (2) support livelihoods, and (3) address underlying/structural causes.

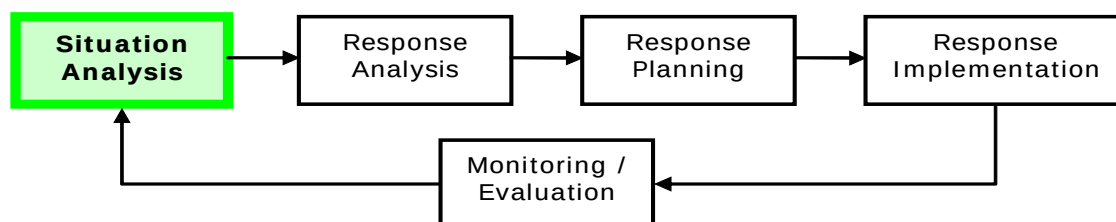
The Reference Table also includes guiding information for Early Warning, which are divided into three Levels: (1) **Alert**, (2) **Moderate Risk**, (3) **High Risk**. Each of these Levels is further associated with key information required for effective early warning: **Probability**, **Severity**, **Reference Hazards and Vulnerabilities**, and **Implications for Action** (important additional information on expected timing is included in the cartographic protocols).

The **Analysis Templates** are tables which organize key pieces of information in a transparent manner to substantiate a Phase Classification statement and additional key information to guide effective response. The **Cartographic Protocols** are a set of standardized mapping and visual communication conventions that effectively convey key information concerning situation analysis on a single map. The **Population Tables** are a means to consistently and effectively communicate population estimates by administrative boundaries, livelihood systems, and livelihood types.

3.3 Situation Analysis

The IPC enables consistent analysis and communication of **Situation Analysis**-- a distinct yet often overlooked, or assumed, stage in the 'analysis-response continuum'. The diagram below illustrates its relationship with other stages, which include: Response Analysis, Response Planning, Response Implementation, and Monitoring/Evaluation (See Appendix 5 for overall objectives of each stage). Each of these stages involves unique expertise, institutions, timing and outputs; and thus warrants distinct protocols. Situation Analysis is the foundation for planning and implementing subsequent interventions. Optimally there should be broad consensus from all stakeholders (UN agencies, NGOs, governments, donors, media, and affected populations) on Situation Analysis. Strong consensus on Situation Analysis leads to effective coordination, more leverage for resources, and more efficient response.

Figure 1: Situating 'Situation Analysis' within Broad Stages of the Analysis-Response Continuum



Key aspects of Situation Analysis, including the key driving question of each, include:

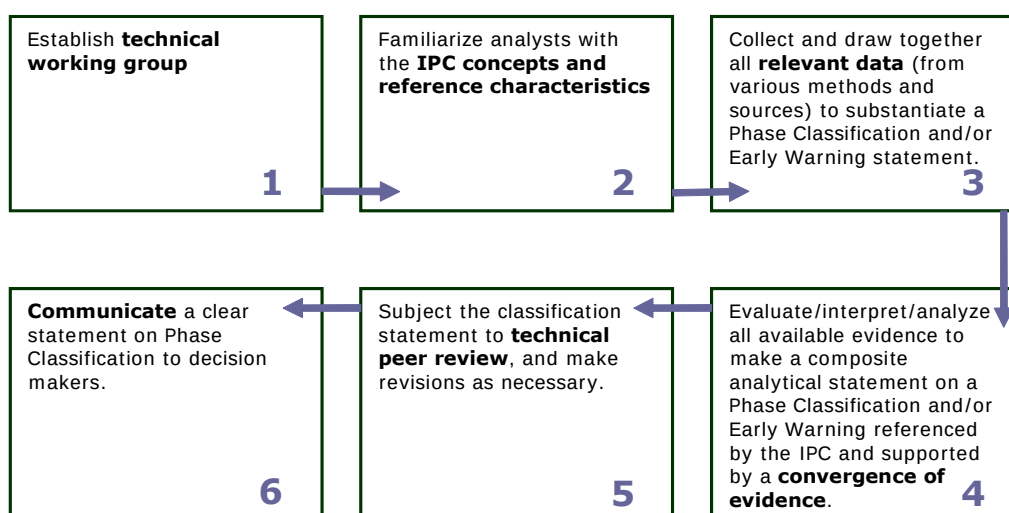
- **Severity of the situation**- How severe is the situation with regards to impacts on human lives and livelihoods?
- **Geographic extent**- What is the approximate geographic area in crisis? This should be defined according to actual spatial analysis, but can be guided by livelihood zones, administrative boundaries, agro-ecological zones, and other spatial markers.
- **Magnitude (# people)** - What is the estimated number of people experiencing various severity levels of crisis?
- **Immediate causes**- What are the direct, or proximate, causes of the crisis?
- **Underlying causes**- What are the underlying, distal, or structural causes of the crisis?
- **Identification of general needs**- What basic human needs and aspects of livelihood systems require support?
- **Distinction of transitory or chronic situations**- Is the underlying nature of an acute crisis generally food secure or chronically food insecure?
- **Criteria for social targeting**- What are the key criteria for targeting interventions to the most appropriate social groups?
- **Projected trend**- Is the future projected trend for the crisis area expected to improve, to worsen, or stay the same for the foreseeable future?
- **Confidence level of analysis**- What is the overall confidence level of the analysis, as estimated by the analysts and based on a heuristic critique of the available evidence?

Given the critical importance of Situation Analysis as a foundational stage of effective interventions, it warrants specific protocols to ensure minimal standards of information provision, rigour, comparability, and to enable technical consensus. The IPC provides key protocols for Situation Analysis and provides the platform for subsequent Response Analysis, Response Planning, Response Implementation, and Monitoring/Evaluation. These later aspects of the analysis-response continuum are not covered in this manual, however, they too warrant formation of basic protocols and standards. The Needs Analysis Framework (NAF 2005) is an example global effort to provide protocols for multi-sectoral and inter-agency Response Analysis (IASC 2005).

3.4 Steps to Use the IPC

The general process of using the IPC involves six main steps, as described in the diagram below. Adherence to these steps will enable evidence-based analysis, technical consensus, and linking information to action--all of which underpin the technical integrity of the IPC.

Figure 2: Steps to use the IPC



The IPC is designed to be adaptable to a wide variety of information systems and analytical approaches. In most countries that experience chronic food insecurity or recurrent humanitarian crises, an information system of some type typically exists. This may range from a very rigorous and comprehensive system to a minimal or informal system. The IPC is designed to build from existing information systems in any given country (much like an ‘add-on’ component), and help make the most rigorous, consistent, and meaningful use of that data and analysis. As such, the IPC can be equally applicable in ‘data rich’ and ‘data poor’ settings.

3.5 Unique Aspects of the IPC

The IPC incorporates many elements of the classification systems described previously, and makes new contributions including:

- enabling the strategic goal of saving **livelihoods** through inclusion of the phase of Acute Food and Livelihood Crisis, and inclusion of livelihood assets in the Key Reference Outcomes and Strategic Response Framework
- referencing each phase with characteristics that are **outcome oriented** and internationally accepted, however, integrating a number of different reference outcomes to allow for greater adaptability to different situations, practicality given data limitations, and increased opportunities for triangulation
- explicit inclusion of additional key **defining attributes of a crisis situations** including causes, magnitude, projected trend, social group identification, underlying conditions, and confidence level of analysis
- employing the concept of **convergence of evidence** to support a phase classification statement, which is practical given the highly complex and dynamic nature of classifying food security and humanitarian situations as well as widely varying data availability
- inclusion of a comprehensive, yet generic and widely-applicable **Strategic Response Framework** associated with each phase
- inclusion of **multi-sectoral** aspects of humanitarian issues as both Key Reference Outcomes and in the Strategic Response Framework
- providing protocols for **Early Warning** and linking the various risk levels to the Phase classification system
- enabling increased rigour and transparency through supporting the classification with an evidence based approach using standardized **Analysis Templates**
- development of **Cartographic Protocols** to enable standardized and clear communication of complex analysis
- development of standard **Population Tables** that identify numbers of people in crisis by administrative boundaries and livelihood systems

4. IPC REFERENCE TABLE - TECHNICAL GUIDELINES

The IPC **Reference Table** (see Table 1) guides analysis for both the Phase Classification (Phase Classes, Key Reference Outcomes, and Strategic Response Framework), and the Early Warning Levels (Probability, Severity, Reference Hazards and Vulnerabilities, and Implications for Action). These technical guidelines review concepts and technical specifications for each of these components.

4.1 Phase Classes

Concepts

Given the relative urgency with which decisions need to be made in humanitarian situations, classifications need to be objectively distinguished from each other in order to evoke the relative urgency, general conditions, and appropriate response. Academic needs for highly nuanced food security situations are acknowledged, but to provide effective early warning and real-time analysis, the IPC focuses on “getting the big picture right” to ensure decision makers and stakeholders can clearly distinguish important differences in situations and respond appropriately.

The IPC classifies geographic areas and social groups into one of five phases: **Generally Food Secure**, **Chronically Food Insecure**, **Acute Food and Livelihood Crisis**, **Humanitarian Emergency**, and **Famine/Humanitarian Catastrophe**. The five phases are general enough to accommodate a wide range of causes, livelihood systems, and political/economic contexts; yet their distinction has profoundly different implications for action (including strategic design, urgency, and ethical imperative).

Inclusion of the complete spectrum—from *generally food secure* to *famine*—emphasizes that food security interventions are required at all phases (not just when an emergency breaks out), albeit the strategic focus will differ. The terminology of “phases” underscores the dynamic and evolving (either positively or negatively) nature of food security. Indeed, the IPC is equally applicable for situations that are deteriorating or improving, enabling comparative analysis of situations over time. Note, however, that changes from one Phase to another are not necessarily sequential (e.g., it is possible to skip from Generally Food Secure to Humanitarian Emergency).

Specifications

The IPC distinguishes five Phases of food security and humanitarian situations, each of which has a general definition in addition to specific Key Reference Outcomes.

Table 2: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - General Phase Description

Phase	General Description
1 Generally Food Secure	Usually adequate and stable food access with moderate to low risk of sliding into Phase 3, 4, or 5.
2 Chronically Food Insecure	Borderline adequate food access with recurrent high risk (due to probable hazard events and high vulnerability) of sliding into Phase 3, 4, or 5.
3 Acute Food and Livelihood Crisis	Highly stressed and critical lack of food access with high and above usual malnutrition and accelerated depletion of livelihood assets that, if continued, will slide the population into Phase 4 or 5 and/or likely result in chronic poverty.
4 Humanitarian Emergency	Severe lack of food access with excess mortality, very high and increasing malnutrition, and irreversible livelihood asset stripping
5 Famine / Humanitarian Catastrophe	Extreme social upheaval with complete lack of food access and/or other basic needs where mass starvation, death, and displacement are evident

The above descriptions highlight general distinctions between the phases. Each of these phases is associated with Key Reference Outcomes with absolute and relative thresholds. The reference outcomes provide an objective means to distinguish phases and technically support a phase classification, thus enabling comparability and accountability in analysis. Unique to the IPC is the explicit inclusion of Acute Food and Livelihood Crisis (Phase 3) as a food security and humanitarian Phase. The food security community has long acknowledged the importance of understanding livelihood dynamics and the links to food security (Frankenburger 1992, DFID 2001, WFP 2005). The IPC literally puts “livelihoods on the map”, and draws attention to this critical phase which may not be the “CNN/BBC moment” with stark images of starvation, but nonetheless requires urgent interventions to prevent highly stressed food access

from slipping into Humanitarian Emergencies and support stabilization/recovery of livelihood asset deterioration. Thus, Phase 3 is both an early warning precursor to an impending Humanitarian Emergency as well as a critical phase in its own right that warrants urgent livelihood support.

Although the terminology used to label each Phase is emotive and purposely selected to elicit calls for urgent action, the IPC strives to move beyond the use of these terms as adjectives and metaphors open to relative interpretations by various interests. Rather, each phase is explicitly linked to a set of consistent, internationally accepted, and objective criteria—giving each term a specific technical meaning that becomes a common currency for analysts and the wide range of other stakeholders (governments, decision makers, implementing agencies, donors, media, etc.).

4.2 Key Reference Outcomes

Concepts

The Phase classification is a *composite analytical statement* that is based on a *convergence of evidence* of **Key Reference Outcomes** representing operative common denominators of human welfare and livelihoods. For each IPC Phase there is a set of Key Reference Outcomes which cover a breadth of outcomes on human well being, including: *Crude Mortality Rate, Wasting, Stunting, Disease, Food Access/ Availability, Dietary Diversity, Water Access/Availability, Destitution/Displacement, Civil Security, Hazards, Coping, Structural Conditions, and Livelihood Assets*. While interpreted and adjusted to fit the IPC phases, the reference outcomes are drawn from well recognized international standards and other classification systems.

The reference outcomes are selected according to **specific criteria**, including:

- **Outcome Indicators rather than Process Indicators:** This is a critical distinction which gives the IPC comparability over space and time as well as accountability. Outcome indicators represent the resulting impact of a given situation. Irrespective of the uniqueness of a given situation (the livelihood system, the socio-economic context, the history, the type of hazard, etc.), the international community can generally agree on which outcomes food security and humanitarian interventions are to avoid, and which outcomes to work towards. The phase classification reference outcomes are as much as possible oriented around outcome indicators, although it is recognized even these represent different stages of outcomes (on an individual scale, mortality, for example, would come after distress coping strategies).

Process indicators represent the dynamics that lead to a particular outcome. These include a wide range of indicators such as market prices, climate indicators, crop production, livestock conditions, and many others. While process indicators are essential for analysis, they work together in a highly dynamic and integrated manner and their ultimate impact (outcome) is dependent on the nuances of a given situation including livelihood system, socio-economic context, history, type of hazard, etc. For example, a 50% increase in the market price of milk (a process indicator) has a completely different outcome in a livelihood system that produces milk than in a livelihood system that is a net purchaser of milk, potentially being beneficial for the former and detrimental for the latter.

Process indicators can lead towards predicting outcomes and can be used as indirect evidence and for early warning (see further discussion below). The classification itself, however, needs to be referenced against outcomes which can be widely agreed upon and are applicable in a wide array of situations. (For a comprehensive listing of different types of process and outcome indicators see FAO/FIVIMS 2002 and Riely et al. 1999).

- **Breadth of Humanitarian Outcomes:** The reference outcomes include a breadth of outcomes that are either directly or indirectly related to food security. The IPC emphasizes food security analysis, but recognizes that it is impossible to separate severe food insecurity from associated sectoral crises in the fields of health, water, sanitation, shelter, and others. There is highly dynamic interplay between these sectors, especially as situations deteriorate—both in that they often times co-exist, and that any stress on one likely leads to stresses on others. Thus the IPC emphasizes food security analysis, but integrates other humanitarian concerns. The IPC is not meant, however, to substitute for more refined analysis of any particular sector.
- **Fewest Possible:** While aiming to include a broad spectrum of humanitarian outcomes, the reference outcomes are selected to be the fewest possible. Keeping their numbers to a minimum contributes to greater consistency and simplicity in analysis. Importantly, the reference outcomes are not meant to be full descriptions of all the dynamics occurring in a given Phase, but, rather, are identified only for their salient ability to signify Phase severity.
- **Lives and Livelihoods:** The reference outcomes include outcomes on both human lives and livelihoods. While saving lives is an immediate strategic objective, relief and response should mitigate the vulnerability

of individuals and communities to future hazards. Without strategic attention to supporting livelihoods people may slide into chronic poverty and perpetual high vulnerability to future hazards, leave alone thus unable to meaningfully contribute to national development (Sphere 2004 and DFID 2001). Supporting livelihoods is a strategic goal unto itself.

The IPC integrates livelihoods into the reference outcomes through the basic framework of the Sustainable Livelihoods Approach which identifies five main livelihood capitals: human, financial, social, physical, and natural. One current and future challenge for the IPC is that the status of these capitals, which can be legitimately be seen as outcomes in their own right, are difficult to measure in a consistent and objective manner. Systematizing this analysis is an area for future development.

- **Measurable/Practical:** Notwithstanding the challenges related to livelihoods noted above, the reference outcomes are selected based on the ability to objectively measure them in a reasonably practical manner. While the reference outcomes are as objective as possible (e.g., anthropometric thresholds), there are still some qualitative descriptions (e.g., displacement levels). For each of the reference outcomes there are a range of specific methodologies that provide the objectivity and rigour for that particular reference characteristic.

Key concepts for the **usage** of the reference outcomes include:

- **Current or Imminent Outcomes:** The Phase classification is based on reference outcomes that are either currently present in a given situation or imminent. The later emphasis on imminent outcomes includes the notions of immediate/foreseeable future as well as confidence that they will occur. Inclusion of imminent in the definition of outcomes is important from the perspective of ensuring a timely response. This approach is different from a threshold-based analysis of single indicators.
- **Convergence of Evidence:** Although the IPC strives for objectivity and consistency, the extremely complex nature of food security and humanitarian analysis makes a strict application of single indicator thresholds both impractical and technically questionable in their application to a wide array of situations. The IPC, rather, supports a Phase classification statement based on convergence of evidence from multiple sources (not limited to single assessment findings) as evaluated by analysts. In this manner, the analysts use the reference outcomes as a guide, but ultimately make a classification statement based on the convergence of evidence from all available sources. Such can include direct and/or indirect¹ evidence of the outcomes from a variety of sources and process indicators, depending on data availability and practicality.

This evidence-based approach is not only practical and accommodating to a wide array of situations, it also focuses the burden of proof on the analysts, who need to demonstrate to all stakeholders (as if in a court of law) the validity and relevance of evidence in support of a classification statement, even if that statement is based on considerable 'own best judgment'. Such a process enables accountability and accessibility for critique. An additional component of the IPC, the Analysis Templates, guides the organization of the evidence pieces so as to facilitate analysis and increase transparency of conclusions (see below further discussion).

- **Adaptability:** With the emphasis on convergence of evidence rather than strict adherence to thresholds, the IPC can accommodate a complex array of situations while maintaining reasonable comparability. Importantly, the reference outcomes listed for each Phase are merely guides—they do not all necessarily need to exist, or coincide for a given situation, but are listed to provide the breadth of outcomes noted previously and to enable triangulation (for example, there could be prevailing peace during a Humanitarian Emergency). As an important distinction from a strict interpretation of thresholds, the IPC reference outcomes often include both absolute cut-offs as well as changes from normal and trend. While this approach does open the classification statement up to interpretation of the analysts, any significant deviation from the reference outcomes would be evident and would demand a technical explanation so as to convince stakeholders.
- **Technical Consensus:** The Phase classification statement is not only supported by a convergence of evidence, but also, due to the multi-faceted data sources, methods involved, and required input from multiple institutions; the IPC is supported by technical consensus. Making the meaning of evidence clear and increasing its accessibility enables formation of technical consensus through a process of rigorous and technically informed debate.

Specifications

While striving to identify objective and internationally accepted thresholds to correspond to each Phase, some of the outcomes are more objective than others. The Reference Table (Table 1) illustrates the collection of reference characteristic thresholds for each Phase. Listed below is an explanation of each reference characteristic as it relates to the IPC Phases.

Crude Mortality Rate

- **Importance:** Crude Mortality Rate (CMR) is the “mortality rate from all causes for a population” (WFP and CDC 2005, p. 220). It is measured by the formula: (# deaths during a specific time period) / (# persons at risk of dying during that period) x (time period) (WFP and CDC 2005). The under -5 mortality rate (U5MR) is calculated the same way as applied to populations under the age of 5, however, the reference thresholds differ from CMR. The Sphere Handbook notes that CMR is “...the most specific and useful health indicator to monitor in a disaster situation” (Sphere 2004, p. 260). In many ways it is the ultimate outcome indicator of extreme food insecurity and humanitarian crises.
- **References/Sources:** In emergency situations CMR and U5MR are usually expressed as number of deaths / 10,000 people / day. The Sphere Handbook notes that, “A doubling of the baseline CMR indicates a significant public health emergency, requiring immediate response” (Sphere 2004 p. 260). UNICEF’s State of the World’s Children (2003) notes that for Sub-Saharan Africa the baseline CMR is 0.44 and U5MR is 1.14. It further identifies emergency thresholds to be 0.9 CMR and 2.3 U5MR (UNICEF 2003). The United Nations Standing Committee on Nutrition notes, “The CMR and U5MR trigger levels for alert are set at 1/10,000/day and 2/10,000/day respectively. CMR and U5MR levels of 2/10,000/day and 4/10,000/day respectively indicate a severe situation” (SCN 2004 p. 37). On the Howe and Devereux (2004) ‘Famine Magnitude Scale’, CMR rates for levels of ‘Famine’ and ‘Severe Famine’ are set at ≥ 1 but $< 5/10,000/\text{day}$ and ≥ 5 but $< 15/10,000/\text{day}$, respectively. Personal communication with Muireann Brennan and Oleg Bilukha from CDC recommend CMR levels for humanitarian emergency to be from 1 to 2/10,000/day, and for famine conditions greater than 2/10,000/day (Brennan and Bilukha of CDC, April 11 2006).
- **Explanation of IPC Reference Thresholds:** The IPC integrates CMR at in all Phases, with specific reference thresholds. The IPC is generally consistent with the sources cited above, with some modifications to fit the Phases. The criterion of ‘greater than 2 times the baseline’ is incorporated at Phase 4, as well as the dynamics of ‘greater than usual’ and ‘increasing’ (which applies only as situations are deteriorating). These later two criteria provide further references that can be used in conjunction with the absolute thresholds to ensure flexibility for an array of situations.

Table 3: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Crude Mortality Rate

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Crude Mortality Rate # deaths per 10,000 people per day		CMR <0.5 U5MR <=1	CMR < 0.5 U5MR <=1	CMR 0.5 - 1 increasing U5MR 1-2	CMR 1-2, increasing, or >2x reference rate U5MR >4	CMR > 2 (example: 6000 deaths/ 1,000,000 people/ 30 days)

- **Limitations:** Despite its direct relationship to extreme food insecurity, CMR also poses challenges to measure in real time during an emergency. Such challenges include: (1) shifting base populations due to dynamic in and out migration, (2) small incidences with high variability, (3) the high potential for as yet ‘unknown’ status, and (4) other complicating factors (see CDC 2005 for fuller explanation of calculating CMR).
- **Potential Methods:** The best method to measure mortality is by means of a well functioning surveillance system which captures most deaths both in facilities and in the community. This method allows analysis of trends on a daily basis, whereas a one time census or a survey would have to be repeated over time. Ideally a well functioning mortality surveillance system would be complemented by a survey which could serve as a “reality check”.

Acute Malnutrition

- **Importance:** Wasting is defined as weight-for-height index (w/h) less than -2 Z-scores. Global acute malnutrition rates include the percent of the population that is < -2 Z-scores plus cases of oedema. Acute malnutrition is a direct outcome indicator of recent changes in nutritional status. High or increasing levels of acute malnutrition in a population indicate current or recent stress at individual or household level. Young et al. (2005) review the importance and role of nutrition information in humanitarian classification systems.

- **References/Sources:** The UN Standing Committee on Nutrition (SCN) states that, “A prevalence of acute malnutrition between 5-8% indicates a worrying nutritional situation and a prevalence of greater than 10% corresponds to a serious nutrition situation” (SCN 2004 p. 37). WHO provides guidance as follows: low (<5%), medium (5-9%), high (10-14%), and very high ($\geq 15\%$) (FAO 2005, p 47). Howe and Devereux (2005) reference ‘Famine Conditions’ as 20-40%, and ‘Severe Famine Conditions’ as $>40\%$.
- **Explanation of IPC Reference Thresholds:** The IPC incorporates acute malnutrition in all Phases, and is generally consistent with the sources cited above. A key reference threshold is that for Humanitarian Emergency, where wasting is $>15\%$. Making adjustments to fit the IPC phases, the reference threshold for Famine/Humanitarian Catastrophe is $>30\%$, which is halfway between the thresholds used by Howe and Devereux for ‘Famine’ and ‘Severe Famine’ conditions. Importantly, the IPC includes not just the absolute values of wasting levels to support a Phase Classification, but, for deteriorating situations, also includes the notions of ‘increasing’ and ‘greater than usual’—enabling more contextual analysis of malnutrition rates and their meaning.

Table 4: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Acute Malnutrition

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Acute Malnutrition (w/h <-2 z -scores)		$<3\%$	$>3\%$ but $<10\%$, usual range, stable	10-15%, $>$ usual, increasing	$>15\%$, $>$ usual, increasing	$>30\%$

- **Limitations:** While wasting is a direct outcome of nutritional and health status, limitations in its use and interpretation include: (1) wasting can be a late outcome indicator of a crisis, and response mechanisms based on wasting can be too late for meaningful action, and (2) in populations where levels of acute malnutrition are high outside times of acute crisis, levels during periods of crisis can be difficult to interpret, and (3) there is on-going debate within the nutrition field as to whether wasting rates are comparable across population groups of different physiological structure (UNICEF forthcoming, Bradbury 1998).
- **Potential Methods:** The most common method of estimating levels of acute malnutrition levels at population level is through random, representative sampling methods. A supporting method is the Mid-Upper Arm Circumference (MUAC) measurement. Other indirect evidence can include health clinic data, admissions to therapeutic feeding centers, expert observation, and others.

Stunting

- **Importance:** Stunting is defined as <-2 Z scores height for age. The CDC defines stunting as, “Growth failure in a child that occurs over a slow cumulative process as a result of inadequate nutrition and/or repeated infections” (WFP and CDC 2005). As such, levels of stunting indicate overall poverty and chronic malnutrition, of which food insecurity can be a contributing factor.
- **References/Sources:** WHO provides the following guidance for interpreting stunting prevalence as a % with height for age <-2 Z scores: low ($<20\%$), medium (20-29%), high (30-39%), and very high ($\geq 40\%$) (FAO 2005 p47).

Table 5: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Stunting

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Stunting (w/age <-2 z scores)		$<20\%$	20-40%	NDC	NDC	NDC
NDC – Not a Defining Characteristic						

- **Limitations:** In addition to normal challenges with regards to survey sampling and data collection, stunting poses an additional challenge in that it requires the subject's age to be known. For many societies this information is not readily available or can be incorrect due to lack of records.
- **Potential Methods:** Stunting is best measured through population surveys.
- **Explanation of IPC Reference Thresholds:** The IPC only includes stunting for the Phases of Generally Food Secure and Chronically Food Insecure. This is because it is only for these Phases that stunting is a distinctly defining characteristic—for Phases 3, 4, and 5 measurements of wasting are more appropriate as those situations are more dynamically changing. The reference threshold of >20% is used to classify areas that are Chronically Food Insecure.

Disease

- **Importance:** In the conceptual model of causes of malnutrition by Helen Young (1998) and consistent with MSF (2002) and ACF (2002), along with 'inadequate food intake', 'disease' is a direct cause of malnutrition. This is also conceptually related to the 'utilization' pillar of food security analysis in that the physiological ability of the human body to effectively utilize food can be directly undermined in the presence of disease. In addition to the physiological effects, from a household economy perspective the presence of disease can have direct negative on food access and availability, including: (1) diversion of financial resources for health care, (2) removal of productive labor from the household either by the sick person or by caregivers, and (3) the potential for social exclusion or marginalization. A number of studies have demonstrated a profound link between the impact of HIV/AIDS in particular on food access and availability (Drimrie 2002, Drinkwater 2003, Haan et al. 2003, UNAIDS 1999, FAO 1995). The inclusion of disease in the IPC is not only related to the link with nutrition or food security, but as an issue in itself which might cause a population to experience an emergency e.g. major epidemic – with or without food security.
- **References/Sources:** While the linkages between disease and food security clearly warrant its inclusion in the IPC, identifying prevalence thresholds will depend on the particular disease in question (e.g., HIV/AIDS, cholera, measles, dysentery, etc.) That said, epidemiologists make general distinctions between endemic, epidemic and pandemic outbreaks, which provide general guidance for the IPC. When there is a fairly steady number of people getting sick all the time, and when there is a balance between the host-environment-agent triad, the disease is said to be endemic. When the balance is shifted in favor of the organism and there is a rapid increase in cases, the disease is called epidemic (Nordberg 1999). A disease becomes pandemic if it is spread over a wide geographic area or infecting a large portion of the population.
- **Explanation of IPC Reference Thresholds:** The IPC incorporates epidemic and pandemic in Phase 3, 4 and 5. The IPC uses the general terms of epidemic and pandemic to distinguish relative severity levels in populations. These are only general terms whose meaning needs to be interpreted according to the particular disease in question and its implications for food security and humanitarian analysis.

Table 6: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Disease

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Disease		NDC	NDC	Epidemic outbreak; increasing	Pandemic outbreak	Pandemic outbreak
NDC – Not a Defining Characteristic						

- **Limitations:** Due to the emphasis of the IPC on food security and humanitarian analysis, disease is analyzed according to its impacts on these overall concerns. That said, any particular disease has its distinct levels of 'emergency' which can vary widely. Even a few new cases of polio, for example, could be considered an emergency from a public health perspective, although this is not likely to have profound effects on food security. As such, the IPC does not at all replace detailed analysis of public health implications for individual diseases.
- **Potential Methods:** Individual diseases will require specific methods for data collection and analysis. Potential sources include routine and specific surveillance systems, health surveys, health clinic data, and expert observation.

- **Importance:** Food access and availability, while not a direct measure of human condition as are anthropometric indicators, is directly linked to human health outcomes. Using food access and availability as a criteria is consistent with the 'entitlement theory' of Sen (1981). As noted by Webb et al. (2006), however, actual measurement of household food access and availability is very difficult to do. As a reference characteristic, access and availability are not distinguished—the question is whether or not (and through what trade-offs) the minimum kcal intake is met. That said, for understanding the nature of a crisis and for programming purposes it is critical to distinguish if gaps are due to an availability or access problem. This analysis should be included in the IPC Analysis Templates (see section 5. IPC Supporting Tools).
- **References/Sources:** A common reference for measuring adequate food access and availability for individual consumption is 2,100 kcal per person per day (SPHERE 2004). Note that for populations unable to meet this general threshold the causes could either be due to access or availability which will be highlighted in the analysis as the IPC forces analysis of livelihood strategies, assets, immediate and underlying causes. This reference characteristic draws on globally accepted norms but also on current ongoing initiatives on poverty lines (Lanjouw 1989) and 'expenditure gaps' and 'food gaps' as used in Household Economy Analysis (FSAU 2006).
- **Explanation of IPC Reference Thresholds:** The IPC integrates food access and availability at all Phases, with specific reference thresholds identified. While 2,100 kcal is used as a reference, other important distinctions are included in the IPC that guide classification, including stability and whether or not households have to strip assets in order to achieve 2,100 kcal.

Table 7: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Food Access/Availability

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Food Access/Availability		Usually adequate, stable (2,100 kcal pppd)	Borderline adequate, unstable (2,100 kcal pppd)	Lack of entitlement (2,100 kcal pppd), meeting minimum needs through asset stripping	Severe entitlement gap, Unable to meet minimum needs	Extreme entitlement gap; much below 2100 kcal ppp day

- **Limitations:** An overemphasis on consumption levels of kcal can lead to overlooking the nutritional quality of food intake. This is partly offset by examining dietary diversity, which is also included in the IPC. The reference threshold of 2,100 kcal is a generalized figure that does not represent the specific needs of varying age groups, gender, and levels of activity. Indeed, some analysts suggest that the reference threshold of 2,100 kcal is misleading and cannot be generalized to various population groups and situations. Rather, the emphasis should be on comparing the normal/typical kcal intake of a population group to that during times of stress. As will other indicators in the IPC, the absolute threshold is merely provided as rough guidance, and conclusions on the Phase levels need to be triangulated with other reference outcomes.

- **Potential Methods:** Food access and availability is typically analyzed for various population groups including wealth groups, social groups, livelihood groups etc, as opposed to individuals. Because food access and availability results from complex interaction of multiple variables, it is best conducted in a holistic manner that involves examination of sources of food, sources of income, expenditure patterns, and coping strategies—all at the level of a particular livelihood system. The Household Economy Approach (HEA) (SCF-UK 2000) is one such method. Alternatively household surveys and integrated macro indicator analysis are also used. Swindale and Bilinsky (2006) have recently developed a method to examine food access that draws from qualitative indicators of household food stress, called the Household Food Insecurity Access Scale (HFIAS). Indirect evidence can be retail sales volumes for local markets, market prices of staple commodities, crop production, domestic imports, and many others that may affect purchasing power, social access, and/or supplies of staple foods (see FAO/FIVIMS 2002 for more comprehensive listing of indicators related to food access and availability).

Dietary Diversity

- **Importance:** Swindale and Bilinsky (2005) of the Food and Nutrition Technical Assistance (FANTA) note that, “Household dietary diversity - the number of different food groups consumed over a given reference period - is an attractive proxy indicator for the following reasons.
 - A more diversified diet is an important outcome in and of itself.
 - A more diversified diet is associated with a number of improved outcomes in areas such as birth weight, child anthropometric status, and improved hemoglobin concentrations.
 - A more diversified diet is highly correlated with such factors as caloric and protein adequacy, percentage of protein from animal sources (high quality protein), and household income.”

A recent comprehensive survey of food security and nutrition in Darfur led by WFP effectively demonstrated the value of dietary diversity as a component of food security analysis (WFP 2005).

- **References/Sources:** Swindale and Bilinsky (2005) identify twelve main food groups used to calculate a dietary diversity score: cereals, roots and tubers, vegetables, fruits, meat/poultry/offal, eggs, fish and seafood, pulses/legumes/nuts, milk and milk products, oils/fats, sugar/honey, and miscellaneous. Research conducted by FSAU indicates that three or less food groups indicates a critical situation (FSAU 2005)
- **Explanation of IPC Reference Thresholds:** The IPC makes general distinctions of dietary diversity for Phase 2 and 3, as chronic and acute dietary diversity deficits, respectively. For Phase 4 a numeric reference threshold of regularly less than 2-3 or fewer food groups consumed is used.

Table 8: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Dietary Diversity

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Dietary Diversity		Consistent quality and quantity of diversity	Chronic deficit in dietary diversity	Acute dietary deficit	Regularly 2 to 3 or fewer main food groups consumed	NDC
NDC – Not a Defining Characteristic						

- **Limitations:** Measures of dietary diversity typically do not include quantities consumed. As well there can be significant fluctuations over time of consumption of food groups, posing challenges to extrapolation of survey data to broad conclusions of food security status.
- **Potential Methods:** Dietary diversity can be measured through nutrition surveys, and estimated through focus group discussions, household interviews, and market trader interviews.

Water Access / Availability

- **Importance:** “Water is essential for life, health, and human dignity...In most cases, the main health problems are caused by poor hygiene due to insufficient water and by the consumption of contaminated water” (Sphere 2004 p. 63). Thus water access and availability is both a direct indicator (through basic survival levels) and indirect indicator (by affecting the adequate utilization of food) of Phase severity.

- **References/Sources:** The Sphere Handbook identifies water requirements for different basic survival needs: survival needs for water intake (2.5-3 litres per day), basic hygiene practices (2-6 litres per day), basic cooking needs (3-6 litres per day), and total combined basic water needs (7.5-15 litres per day). These values depend on a number of local factors including climate, individual physiology, and social/cultural norms.
- **Explanation of IPC Reference Thresholds:** The IPC integrates water access and availability at all Phases, with specific reference thresholds identified. The IPC generally follows the Sphere guidelines for total basic needs, while adjusting these levels to fit the Phase classes. An additional key criteria for Phase 1 and 2 is the stability of water supplies.

Table 9: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics
- Water Access/Availability

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Water Access/ Avail		Usually adequate, Stable (>15 ltrs pppd)	Borderline adequate, unstable (>15 ltrs pppd)	7.5 – 15 ltrs pppd; meeting minimum needs through asset stripping	<7.5 ltrs ppp day (human usage only)	< 4 ltrs ppp day

- **Limitations:** The basic water requirements listed in the IPC are for human usage only. For pastoral societies in particular, water requirements for livestock would significantly increase these amounts, and are necessary to consider for responses. Further, basic water access and availability does not take into consideration other factors such as time and distances required to fetch water. For further key indicators of water supply adequacy see Sphere 2004 p. 63.
- **Potential Methods:** Because water sources are fewer and more streamlined than food sources, it is relatively more possible to estimate either the amounts used by individual households (through surveys or focus group interviews) or communities that all share the same water source (e.g., boreholes, water trucking, and dams) by estimating the amounts available from the source versus the community population. This latter method, however, must consider purchasing power.

Destitution / Displacement

- **Importance:** Both destitution and displacement are either directly or indirectly associated with severe food insecurity, as both a result and a cause. When faced with extreme food shortages families may migrate or may be forced to sell all assets, leaving them destitute. As well, people who are forcibly displaced through conflict or a severe natural hazard such as a flood or earthquake typically lose access to their normal food sources.
- **References/Sources:** Destitution is a state of extreme poverty that results from the pursuit of unsustainable livelihoods, meaning that a series of livelihood shocks and/or negative trends or processes erodes the asset base of already poor and vulnerable households until they are no longer able to meet their minimum subsistence needs, they lack access to the key productive assets needed to escape from poverty, and they become dependent on public and/or private transfers.' (Devereux 2003 p11). Displacement is defined as 'Persons or groups of persons who have been forced or obliged to flee or to leave their homes or places of habitual residence, in particular as a result of or in order to avoid the effects of armed conflict, situations of generalized violence, violations of human rights or natural or human-made disasters...' (UNHCR 2005). (See also Dasgupta 1993).
- **Explanation of IPC Reference Thresholds:** Destitution/displacement is included in the IPC at Phases 3, 4, and 5. While it is difficult to quantify this variable, given the wide variety of situations, the IPC makes useful qualitative distinctions between: 'emerging and diffuse' (which includes the beginning stages and a spatial pattern that still includes integration with other members of society); 'concentrated and increasing' (which is the stage at which populations are converging on particular localities (e.g., camps and towns), creating new health, protection, and other social problems in addition to limiting options for food access/availability; and 'large scale and concentrated' (which is a qualitative description whose interpretation will depend on the local context).

**Table 10: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics
- Destitution / Displacement**

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Destitution /Displacement		NDC	NDC	Emerging/diffuse	Concentrated/ increasing	Large scale, concentrated
NDC – Not a Defining Characteristic						

- **Limitations:** Often times when families migrate they split up, with the women and children becoming destitute and displaced while men will search for food, labor, and (in the case of pastoralists) grazing opportunities. Attention to displaced populations should not obfuscate the situation of those people not visible in camps.
- **Potential Methods:** Destitution and displacement can be analyzed through household surveys, key informants, camp registrars, aerial surveys, and other monitoring systems.

Civil Security

- **Importance:** Like destitution and displacement, civil insecurity can be both a cause and a result of food insecurity. When resources become scarce some populations may turn to violent options to ensure adequate access. The impacts of civil insecurity are felt directly through destruction or looting of food supplies, disruption of market channels, and direct loss of life and bodily impairment.
- **References/Sources:** Samarasinghe et al. (1999) outline a conflict typology that includes the level of violence and the nature of the conflict (e.g., civil war, insurgency, protracted social conflict, revolutionary war, and war of succession). The level of violence is divided into two types: (1) *High Intensity Conflict* (violence characterized by fatality rates averaging >1000/year or extensive (>5%) population dislocation or both), and (2) *Low Intensity Conflict* (violence characterized by fatality rates <1,000/year (but >100), and <5% population dislocation. If either threshold is exceeded it is counted as a high intensity conflict). Kummenacher and Schmeidl (2001) describe details of conflict monitoring as used by the Swiss Peace Foundation. Also see FSAU (2006)
- **Explanation of IPC Reference Thresholds:** The IPC directly integrates the typology provided by Samarasinghe et al. with a few additions, including: (1) unstable and disruptive tensions to describe Phase 2, and (2) the distinction between limited spread and widespread conflict, the former being associated with a relatively small area and particular social group and the later being associated with a large and changing geographic area and multiple social groups.

**Table 11: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics
- Civil Security**

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Civil Security		Prevailing and structural peace	Unstable, disruptive tension	Limited spread, low intensity conflict	Widespread, high intensity conflict	Widespread, high intensity conflict

- **Limitations:** Although conflict has direct linkages with negative outcomes on food security, it is also important to recognize that often times some groups benefit from conflict, however unacceptable that may be.
- **Potential Methods:** In as much as conflict is defined by the fatality rates and population dislocation, this information can be gained from morality surveys, key informants, official statistics, or observation of burial sites.

Coping Strategies

- **Why important?** Coping strategies are the resultant behaviors of individuals, households, or communities in the face of stress. The ability to cope with a shock is directly related to the vulnerability or resilience of an individual, household, or community. Coping levels are both an observable indicator of food insecurity severity and an outcome in their own right, as some types of coping involve loss of livelihood assets.
- **References/Sources:** Although coping strategies vary widely and have different implications, MSF Holland identifies three main levels including: (1) *insurance strategies* (reversible coping, preserving productive assets, reduced food intake, etc.), (2) *crisis strategies* (irreversible coping, threatening future livelihood, sale of productive assets, etc.), and (3) *distress strategies* (no coping, starvation and death, and no more coping mechanisms (MSF 2005). One approach to quantify levels of coping is the Coping Strategies Index (CSI) developed by CARE and WFP. "The CSI measures behavior: the things that people do when they cannot access enough food. There are a number of fairly regular behavioral responses to food insecurity – coping strategies for short – that people use to manage household food shortage. These coping strategies are easy to observe. It is quicker, simpler, and cheaper to collect information on coping strategies than on actual household food consumption levels" (Maxwell et al. 2003).
- **Explanation of IPC Reference Thresholds:** The IPC directly incorporates the MSF typology of coping for Phases 2, 3, and 4. The CSI is also incorporated noting that absolute thresholds are not interpretable with the CSI, rather, the emphasis is on longitudinal changes from a reference figure (FSAU 2006).

Table 12: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Coping

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Coping		NDC	Insurance strategies	Crisis Strategies; CSI > reference increasing	Distress strategies; CSI significantly > reference	NDC
NDC – Not a Defining Characteristic						

- **Limitations:** Because the CSI is most rigorously applied when analyzed against reference figures, it is necessary to conduct the rapid CSI assessment several times during the course of a crisis. Also, because coping strategies are typically influenced by livelihood systems, it rigour is improved by developing a CSI specific to main livelihood types (FSAU 2006). However since the CSI is contextual and is best referenced to itself (baseline), the comparability across space is limited, yet the degrees of change from the baseline are effective indicators of food security.
- **Potential Methods:** The CSI is usually a rapid household survey which can be a stand alone or part of a larger survey such as a nutrition survey.

Hazards

- **Importance:** As discussed in Section 4.4, Downing et al. (2001) define *Hazard* as a threatening event, or the probability of occurrence of a potentially damaging phenomenon within a given time period and area. Together with vulnerability, exposure to, and effects of hazards lead to risk of negative outcomes.
- **Reference/ Sources:** The persistent threat or occurrence of hazards can lead to successive shocks to systems, making it difficult to recover and achieve sustained food security. Hazards come in many forms (natural: hurricanes, floods, drought, earthquakes, cyclones, Tsunamis, etc.; and socio-economic: market and trade fluctuations, policy shifts, conflict, etc.).
- **Explanation of IPC Thresholds:** As a Key Reference Characteristic of the Phase Classes, hazards are important in distinguishing differences between **Generally Food Secure** and **Chronically Food Insecure**. Note, hazards are also used as a Key Reference Characteristic of the Early Warning Levels described in Section 4.4. Because of the multiple types and potential effects of hazards, the IPC uses a general description to guide the use of hazards to distinguish Phases, making a distinction between *low probability of hazards with low vulnerability* and *recurrent hazards with high vulnerability*.

Table 13: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Hazard

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Hazard		Moderate to low probability of, and/or vulnerability	Recurrent , with High vulnerability	NDC	NDC	NDC
NDC – Not a Defining Characteristic						

- **Limitations:** A challenge for hazard analysis is to not merely report on the event, per se, but to analyze the impact of that event based on the vulnerabilities of a particular livelihood system. Further, even within a single geographic area a given hazard is likely to have differential effects on various social groups.
- **Potential Methods:** Each specific hazard has a unique way to be analyzed. In general, however, historic analysis of frequency and effects is useful. As well hazards can be modeled using GIS spatial analysis, statistical analysis, and other methods.

Structural Conditions

- **Importance:** Structural causes of food insecurity, akin to underlying causes, are often overlooked when it comes to analysis and response. Structural causes of food insecurity (with respect to all the reference outcomes) refers to changes that require a long term strategy and changes/ development of governance structures, infrastructure, trade policies, regulations, environmental degradation, etc.; as well as social structural issues such as inequalities (e.g., gender and ethnicity) citizenship, demographic change, political empowerment, and other markers. Humanitarian situations often overlook structural issues due to the emphasis on saving lives and immediate response. That said, in the interest of promoting sustainable food security they cannot be ignored. On the 'relief-development' continuum, whereas saving lives is on one end of the spectrum, addressing structural hindrances to development is on the other.
- **References/Sources:** Michael Watts (1983) clearly highlighted the structural nature of food insecurity in the case of Nigeria. Stephen Devereux (2003) has also shown how structural issues continue to undermine food security in Ethiopia. Structural causes underlie each of the outcomes listed in the Key Reference Outcomes, and as such inclusion of structural issues forces the analysis and response to address each sector more holistically.
- **Explanation of IPC Reference Thresholds:** The IPC incorporates structural conditions as a Key Reference Characteristic for the Phase of Chronically Food Insecure, which distinguishes this Phase from that of Generally Food Secure. However structural issues are present in all phases hence the need for addressing structural causes of food insecurity is highlighted for each Phase in the Strategic Response Framework.

Table 14: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Structural

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Structural		NDC	Pronounced underlying hindrances	NDC	NDC	NDC
NDC – Not a Defining Characteristic						

- **Limitations:** In as much as the IPC strives for objectivity and measurability, structural issues are not easily 'measured', and will vary greatly from place to place.
- **Potential Methods:** Methods that can be used to identify structural issues include problem tree analysis and review of key indicators in the Human Development Index and other socio-economic surveys.

Livelihood Assets

- **Importance:** As previously discussed, it is widely accepted that saving lives is an important but limited strategic objective for food security and humanitarian interventions. It's also important to simultaneously support livelihoods, so as to increase resilience and improve the overall well being of populations thus addressing food security in a holistic, sustainable manner and reducing the probability of aid dependency. Hence, saving livelihoods is a strategic objective unto itself
- **References/Sources:** Livelihood assets as defined in the Sustainable Livelihoods Approach (SLA) are divided into five inter-related capitals: human (e.g., education, health, etc.), financial (e.g., savings, access to credit, access to remittances, etc.), social (cooperation, gender empowerment, political voice, etc.), physical (e.g., infrastructures like bridges, roads, telecommunications, etc.), and natural (e.g., rangelands, soil fertility, fishing grounds, woodlands, etc.) (DFID 2001, Frankenburger 1992). Livelihood assets can be operationalized at the household, community, and national level (i.e., public goods and services).
- **Explanation of IPC Reference Thresholds:** While a comprehensive application of the SLA requires thorough analysis of how the five capitals interact with each other and through institutions to result in overall livelihood conditions, the IPC incorporates the five capitals in a simplistic manner that emphasizes access, rate of depletion, their risk of complete collapse and their consequent sustainability. Whether or not a change in a particular livelihood asset warrants determining a phase classification will depend on the rate of utilization and depletion and if that asset is vitally important for the overall livelihood of a population group.

Table 15: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Livelihood Assets

Reference Characteristic/ Outcome	PHASE	Generally Food Secure	Chronically Food Insecure	Acute Food and Livelihood Crisis	Humanitarian Emergency	Famine/ Humanitarian Catastrophe
		1	2	3	4	5
Livelihood Assets (5 capitals: human, social, financial, natural, physical)		Generally sustained utilization	Stressed unsustainable utilization	Accelerated and critical depletion or loss of access	Near complete and irreversible depletion or loss of access	Effectively complete loss; collapse

- **Limitations:** The concept of livelihood assets includes an almost infinite number of variables, and will change dramatically for various livelihood systems. Conducting thorough analysis on any single asset can be complex, which is made more so when considering multiple assets. Further, quantifying status of particular assets will depend on the information requirements of that particular asset. Even so, livelihood assets are an integral aspect of food security analysis, and even 'big picture' analysis makes important contributions.
- **Potential Methods:** Livelihood assets can be understood through the SLA (DFID 2001, Maxwell 2003). Specific methods include household surveys, key informant interviews, national socio-economic surveys, institutional and social network mapping etc (FSAU 2005). Better quantifying the status of livelihood assets is a key future challenge for development of the IPC.

4.3 Strategic Response Framework

Concepts

The operational value of the IPC is not only in referencing consistent criteria in support of a statement distinguishing different levels of food security, but also in explicitly linking that statement to appropriate responses. Depending on the phase level of a given area, the response type, configuration, and urgency will differ. As such, linked to each Phase is a **Strategic Response Framework** outlining key components of appropriate interventions to mitigate humanitarian crisis situations and promote food security. The following table illustrates overall distinctions and strategic emphases of response for each Phase.

Consistent with the Twin-Track Approach (Pingali et al. 2005, Flores et al. 2005), the EC policy for Linking Relief, Recovery, and Development (LRRD) (EC 1996), and the notion of saving lives and livelihoods (Longley and Maxwell 2003, WFP 2005, WFP 2004, FAO 2003), the Strategic Response Framework is designed to achieve three broad objectives: *mitigate immediate outcomes, support livelihoods, and address underlying/structural causes*.

The response framework addresses both immediate needs and medium/longer term responses—hence it incorporates basic needs responses as well as longer term structural issues concerning food security and other important sectoral needs such as water, health, shelter, sanitation, protection, etc.). While not explicit in the Strategic Response Framework, principles such as equity, sustainability, justice, and human rights are cross-cutting throughout.

Food security analysis often gets entangled in overly precise, ambiguous, or non-comparable situation analysis, while insufficient analytical effort is devoted to thorough understanding of the crisis and exploration/prioritization of the wide ranging menu of response options. An underlying goal of the IPC is to facilitate basic type, severity, and magnitude analysis to allow for greater analytical emphasis to be devoted to close examination of situation-specific opportunities and constraints.

For any given crisis situation, thorough analysis is required to determine the most appropriate responses for the situation's unique circumstances. The IPC is a summary tool for Situation Analysis, and the Strategic Response Framework bridges the subsequent stage of Response Analysis.

Specifications

For each IPC Phase, the Strategic Response Framework includes three broad objectives: *mitigate immediate outcomes, support livelihoods, and address underlying/structural causes*.

Like three blades on an airplane propeller, each of these three response components must be simultaneously and fully addressed, or they are doomed to fail in promoting sustainable food security (...as the airplane will crash if it is missing one of the three propeller blades!). At the hub of the propeller lie cross-cutting principles of equity, justice, and sustainability.

The Strategic Response Framework is purposely not prescriptive for which particular type of response is required in a given situation (this would come out of the Response Analysis stage of the continuum described in Section 3.3), rather, it merely provides an overarching framework to ensure that the basic elements of a holistic response are identified. The following table identifies both the general emphasis of the strategic response framework for each Phase, as well as the a comprehensive framework to enable mitigating immediate negative outcomes, supporting livelihoods, and addressing underlying/structural causes. In this way the Strategic Response Framework helps in guiding and opening the way for more in-depth analysis of response options that are most appropriate for a given Phase.

Table 16: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Strategic Response Framework

Phase Classification		Strategic Response Framework	
		General Emphasis of Strategic Response	<i>(mitigate immediate outcomes, support livelihoods, and address underlying/structural causes)</i>
1	Generally Food Secure	Investment in livelihood production systems, trade, and distribution systems; enabling development; addressing issues of equity and sustainability	Strategic assistance to pockets of food insecure groups Investment in food and economic production systems Enable development of livelihood systems based on principles of sustainability, justice, and equity Prevent emergence of structural hindrances to food security Advocacy
2	Chronically Food Insecure	Provision of safety nets; risk reduction interventions; livelihood support ; addressing structural hindrances	Design & implement strategies to increase stability, resistance and resilience of livelihood systems, thus reducing risk Provision of 'safety nets' to high risk groups Interventions for optimal and sustainable use of livelihood assets Create contingency plan Redress structural hindrances to food security Close monitoring of relevant outcome and process indicators Advocacy
3	Acute Food and Livelihood Crisis	Urgent interventions to increase food access/availability to minimum standards and prevent destruction of livelihood assets.	Support livelihoods and protect vulnerable groups Strategic and complimentary interventions to immediately increase food access/availability AND support livelihoods Selected provision of complimentary sectoral support (e.g., water, shelter, sanitation, health, etc.) Strategic interventions at community to national levels to create, stabilize, rehabilitate, or protect priority livelihood assets Create or implement contingency plan Close monitoring of relevant outcome and process indicators Use 'crisis as opportunity' to redress underlying structural causes Advocacy
4	Humanitarian Emergency	Urgent interventions to prevent severe malnutrition, starvation, and irreversible asset stripping by increasing food access/availability and other basic needs to minimum standards.	Urgent protection of vulnerable groups Urgently ↑ food access through complimentary interventions Selected provision of complimentary sectoral support (e.g. water, shelter, sanitation, health, etc.) Protection against complete livelihood asset loss and/or advocacy for access Close monitoring of relevant outcome and process indicators Use 'crisis as opportunity' to redress underlying structural causes Advocacy
5	Famine / Humanitarian Catastrophe	Critically urgent protection of human lives through comprehensive assistance of basic needs (e.g., food, water, health, shelter, etc.)	Critically urgent protection of human lives and vulnerable groups Comprehensive assistance with basic needs (e.g. food, water, shelter, sanitation, health, etc.) Immediate policy/legal revisions where necessary Negotiations with varied political-economic interests Use 'crisis as opportunity' to redress underlying structural causes Advocacy

4.4 Early Warning Levels

Concepts

Enabling timely and meaningful early warning is an integral goal of the IPC. Early warning is inherently linked to risk analysis. In as much as the terms *risk*, *hazard*, *vulnerability*, *stability*, *resistance*, and *resilience* are critical concepts for food security and humanitarian analysis, interpretation and usage of the terms varies (Dilley and Boudreau 2001). Drawing on the conceptual development of these terms within the risk/hazards sub-discipline of Geography (White 1975, Turner et al. 2003), the IPC directly incorporates and operationalizes these fundamental concepts, with specific meanings.

A simplified relationship between risk, hazard and vulnerability is illustrated in the formula:

$$\text{Risk} = (\text{Hazard Exposure}) + (\text{Vulnerability})$$

Risk: Crichton (1999) defines Risk as the probability of a loss, which depends on three elements, hazard, vulnerability and exposure. Downing et al. (2001) define *Risk* to be: Expected losses (of lives, persons injured, property damaged, and economic activity disrupted) due to a particular hazard for a given area and reference period. As used with the IPC, *Risk* has specific implications as specified by the ‘risk of deteriorating into a particular IPC Phase’.

Hazard: Downing et al. (2001) define *Hazard* as a threatening event, or the probability of occurrence of a potentially damaging phenomenon within a given time period and area.

Vulnerability: Turner et al. (2003) note that, “...vulnerability is registered not by exposure to hazards (perturbations and stresses) alone but also resides in the sensitivity and resilience of the system experiencing such hazards.” (see Appendix 4 for detailed diagrams illustrating these relationships). Brooks notes that, “it is essential to stress that we can only talk meaningfully about the vulnerability of a specified system to a specified hazard or range of hazards.” (Brooks 2003 p. 3). Vulnerability is closely related to the ability of people or systems to cope with a shock (Chambers 1991), their resistance (ability to withstand a shock), resilience (ability to return to a similar state after recovering from a shock), and the stability of the system.

To be effective for decision making, early warning needs to include five main dimensions: (1) probability (how likely is it to happen?), (2) predicted severity (how bad things might get), (3) substantiation (what evidence is available to support the early warning analysis?), (4) appropriate action (what is the most prudent and appropriate response?) and (5) timeframe (when is it expected to happen?)

As a whole, early warning systems involve much more than merely clear classification as guided by the IPC. They involve institutional networks, identification of priority indicators, communication strategies, issues of timing, and many others. These aspects and many other details of early warning are described in the FEWS NET *Early Warning Primer* (Chopak 2000).

Specifications

The IPC combines concepts of hazard and vulnerability to formulate a *Risk* statement that is specific to the probability of deteriorating into a particular Phase, thus giving *risk* a concrete and actionable meaning. Three Early Warning Levels are operationalized: **Alert**, **Moderate Risk**, and **High Risk**. For each of these levels the main dimensions are specified, including: *Probability*, *Severity*, *Reference Hazards and Vulnerabilities*, *Implications for Action* and *Timeframe*. The Early Warning Levels are applied to the existing Phase Classification for a given area.

Table 17: Integrated Food Security and Humanitarian Phase Classification Reference Characteristics - Early Warning Levels 9pts

Early Warning Levels	Probability / Likelihood (of worsening Phase)	Severity (of worsening phase)	Reference Hazards and Vulnerabilities	Implications for Action
Alert	As yet unclear	Not applicable	<i>Hazard:</i> occurrence of, or predicted event stressing livelihoods; with low or uncertain vulnerability <i>Process Indicators:</i> small negative change from normal	Close monitoring and analysis
Moderate Risk	Elevated probability / likelihood	Specified by predicted Phase Class, and as indicated by color of diagonal lines on map.	<i>Hazard:</i> occurrence of, or predicted event stressing livelihoods; with moderate vulnerability <i>Process Indicators:</i> large negative change from normal	Close monitoring and analysis Contingency planning Step-up current Phase interventions
High Risk	High probability; 'more likely than not'		<i>Hazard:</i> occurrence of, or strongly predicted major event stressing livelihoods; with high vulnerability <i>Process Indicators:</i> large and compounding negative changes	Preventative interventions—with increased urgency for High Risk populations Advocacy

The **Probability** for each Early Warning Level differs.

- For **Alert**, probability is not applicable as it is yet unclear or uncertain that deterioration in the situation will occur. With the IPC an area is put on **Alert** status if there are signals indicating potential stress and/or small negative changes in process indicators.

- For **Moderate Risk**, there is an 'elevated probability/likelihood above the normal/usual risk level. Although everyone at all times is at some degree of risk of food insecurity, for areas at **Moderate Risk**, conditions suggest there is an increased, or heightened, risk above that normal level, and this risk is cause for serious concern that the situation will deteriorate.
- For **High Risk** there is a 'high probability', or 'more likely than not', that the predicted severity level will occur.

The level of **Severity** for each Early Warning Level depends upon the integrated analysis of potential hazards and vulnerability. Depending on how dire the future outlook is, the Early Warning severity predictions can include any of Phases 3, 4, or 5. (The severity level is signified by the color of diagonal lines as drawn on the map - see Cartographic Protocols).

Each of the Early Warning Levels has a set of general **Reference Hazards and Vulnerabilities** that provide guidance for the substantiation of an early warning statement. These are divided into two main types: hazards and process indicators. It is critical to note, however, that risk analysis of the impact of hazards and process indicators requires an understanding of the livelihood system for a given area, which enables vulnerability analysis. Depending on the situation (type of hazard and livelihood system), the relevant process indicators will vary, and can include any variables that would affect purchasing power, social access, or supply of staple foods or other basic humanitarian needs. Examples include: market prices, crop production, livestock conditions, political trends, etc. See FAO/FIVIMS (2002) and Riely et al. (1999) for a comprehensive list of indicators. A key distinction concerning process indicators between Moderate Risk and High Risk is that while the former has 'large negative changes from normal', the later incorporates the notion of 'large and compounding negative changes'--meaning that multiple indicators are simultaneously deteriorating and mutually exacerbating the situation.

Each Early Warning Level is linked to general **Implications for Action**. For all levels, close monitoring and analysis is required. The Moderate and High Risk levels also include contingency planning, advocacy, the need for stepping up interventions required at the current Phase, and the need for preventative interventions. The main difference in Implications for Action between Moderate and High Risk levels concern increased urgency and imperative for High Risk populations.

And lastly, the time frame of the projected early warning should be made explicit. This will depend on the particular situation and should include both the starting period and anticipated ending period of the risk at hand. In some cases this will be oriented around seasonal cycles, but not always (e.g., civil tensions, global trade and marketing shocks, etc.). This information is summarized in the complimentary Cartographic Protocols.

5. IPC SUPPORTING TOOLS

To increase the rigour and communication effectiveness of the IPC, FSAU has developed a set of complimentary and supporting tools. These include:

A Analysis Templates—a tool to organize evidence to support a phase classification statement in a logical, transparent, and accessible manner

B Cartographic Protocols—standardized mapping conventions to convey essential Situation Analysis information

C Population Tables—a standardized approach and format for identifying the number of people facing crisis by administrative boundaries and livelihood systems.

5.1 Analysis Templates

Concepts

Due to the profound implications on many people (sometimes millions) and the multiple stakeholders involved in food security and humanitarian response, whatever the method and however complex the analysis may be, the final results should be understandable and accessible to critique. Key to achieving the overall goals of accountability and transparency is the development of a simple format for organizing key pieces of evidence in support of findings as well as additional information required to inform effective response.

This **evidence-based approach** enables critical evaluation of findings by analysts, peers and decision makers. It opens the analytical process up to informed critique and subjects the results to an almost judicial (i.e., court of law) process whereby the ‘burden of proof’ is incumbent on the analysts.

The **Analysis Templates** are designed to increase transparency and have the strong effect of facilitating key data access and report writing. The summary information forms core aspects of the skeleton of a comprehensive analytical report.

Specifications

The Analysis Templates contain three parts:

- (1) Phase Classification statement,
- (2) Key Information for Mitigating Immediate Outcomes, and
- (3) Key Information for Supporting Livelihoods and Addressing Underlying Causes.

1) Phase Classification Statement: This part guides the listing of: (1) the affected area, (2) its phase classification, (3) which Key Reference Outcomes (from the IPC Reference Table) are applicable, (4) direct evidence supporting the classification, and (5) indirect evidence supporting the classification. Evidence is collected from a plethora of sources, depending on the situation. Since evidence has varying degrees of reliability, each individual piece of evidence is assigned a *reliability score* of 1, 2, or 3 depending on whether the evidence is very reliable, somewhat reliable, or

Table 18: IPC Analysis Template: Analysis of Key Reference Outcomes and Evidence¹

Part 1: Area Affected, Phase Classification, Key Reference Outcomes and Evidence (Primary and Supporting)					
Affected Area (by Region, District and Livelihood Zone)	Phase Classification (F/H/C, HE or AFLC)	Timeline Current/Imminent or Early Warning (Current, Imminent, Alert, Moderate Risk, High Risk)	Applicable Reference Outcomes (As defined by Reference Table)	Direct Evidence • Direct Outcome Evidence • Source of Primary Evidence • Evidence Reliability Score (1=very reliable, 2=somewhat reliable 3=unconfirmed)	Indirect Evidence • Indirect Evidence-Effects on Livelihood Assets and/or Livelihood Strategies • Source of Secondary or Supporting Evidence • Evidence Reliability Score (1=very reliable, 2=somewhat reliable 3=unconfirmed)

F/H/C= Famine/Humanitarian Catastrophe, HE=Humanitarian Emergency, AFLC=Acute Food and Livelihood Crisis

unconfirmed. These scores are considered when assessing the overall confidence of the analysis.

2) Key Information for Mitigating Immediate Outcomes: This part guides the listing of: (1) immediate hazards for each affected area, (2) effects on livelihood strategies, (3) nature of food insecurity in terms of Access, Availability, or Utilization, (4) characteristics and percentage of population in Phase 3, 4, or 5, (5) projected trend, (6) risk factors to monitor, and (7) opportunities for response.

Table 19: IPC Analysis Template - Analysis of Immediate Hazard, Effects on Livelihood Strategies, and Implications for Immediate Response

Part 2: Immediate Hazards, Direct Food Security Problem, Effects on Livelihood Strategies, Risks to Monitor and Opportunities for Response								
ANALYSIS							ACTION	
Affected Area (Region , District and Livelihood Zone)	Phase Classification (F/HC, HE, LC)	Immediate Hazards (Driving Forces)	Direct Food Security Problem (Access, Availability, and/or Utilization)	Effect on Livelihood Strategies (Summary Statements)	Population Affected (Characteristics & Percent of Population)	Projected Trend (Improving, No change, Uncertain, Worsening)	Risk Factors to Monitor	Opportunities for Response (Immediate Response to Improve Access to Food and Assist with Other Immediate Needs, i.e. Health, Shelter, etc.)

3) Key Information for Supporting Livelihoods and Addressing Underlying Causes: This part guides the listing of: (1) the underlying causes for each affected area, (2) the effects on livelihood capitals/assets, (3) projected trend for each livelihood capital, (4) risk factors to monitor and (5) opportunities for supporting livelihoods and addressing underlying causes.

Table 20: IPC Analysis Template - Analysis of Underlying Causes, Effects on Livelihood Assets, and Opportunities for Mitigation in the Medium and Long Term

Part 3: Undermining Structures and Processes, Effects on Livelihood Assets, and Mitigation in the Medium and Long Term							
ANALYSIS					ACTION		
Affected Area (Region , District and Livelihood Zone)	Phase Classification (F/HC, HE, LC)	Underlying Causes (Environmental Degradation, Social, Poor Governance, Marginalization, etc.)	Effect on Livelihood Assets (Summary Statements)	Projected Trend (Improving, No Change, Uncertain, Worsening)	Risk Factors to Monitor	Opportunities for Mitigation in Medium and Long Term (Policy, Programmes and/or Advocacy)	

Footnote

¹ *Direct evidence* includes data sources and methods that specifically indicate the key reference outcomes associated with each Phase. *Indirect evidence*, however, includes proxy indicators that substantiate the key reference outcomes without direct measurement. Akin to corroborating evidence, indirect evidence typically cannot stand on its own, but can be used to substantiate a Phase Classification. Even though indirect evidence is one step removed from the key reference outcomes they are still valid and useful to support the Phase classification statement, albeit with lower confidence than direct evidence. For example – Direct evidence of GAM could include a random sample nutrition survey, whereas indirect evidence could include marked increases in attendance at therapeutic feeding centers.

5.2 Cartographic Protocols

Concepts

Drawing from best practices of poverty mapping (Snel and Henninger 2002, Davis 2003), the Cartographic Protocols enable communication of a vast amount of complex information in an accessible way (a map) to facilitate decision making and action. They are specifically designed to communicate salient elements of Situation Analysis in addition to the Phase Classification itself. Through consistent use of the Cartographic Protocols, users can readily interpret complex information. Adherence to the Cartographic Protocols enables longitudinal analysis to examine how food security situations improve or deteriorate from one point in time to another. The Cartographic Protocols developed for the IPC summarize the salient characteristics of food insecurity information for effective response. After all, a picture paints a “thousand words”.

Specifications

An example of the IPC Cartographic Protocols is FSAU’s recent food security projections following the 2005/06 Deyr season is provided in Map 1 (FSAU 2006). In addition to spatially demarcating all areas of Somalia into their respective IPC **Phases** and **Early Warning Levels**, the map provides additional information on **Defining Attributes for Areas in Phase 3, 4, or 5**. The title of the map explicitly states the projected timeline for the analysis.

Cartographic Protocols for illustrating this information include:

- **Spatial Delineation of IPC Phases:** Using distinct, emotive colors the map delineates the respective areas in various phases of the IPC including Generally Food Secure, Chronically Food Insecure, Acute Food and Livelihood Crisis, Humanitarian Emergency, and Famine/Humanitarian Catastrophe.

Though the core unit of spatial analysis is the Livelihood Zone, the spatial extent of the various phases does not necessarily correspond to a prescribed boundary (e.g., admin unit, livelihood zone, watershed, agro-ecological zone, etc.). Thus, analysts must utilize a wide range of information sources and methods (existing geographic datasets, satellite imagery, GIS spatial analysis, key informants, focus groups, household/nutrition surveys, field observation, etc.) to arrive at the best approximation of the spatial extent of a given phase.

- **Early Warning Levels:** Early Warning Levels are divided into three types: Alert, Moderate Risk, and High Risk. These are overlaid on top of the color signifying the current Phase Classification and graphically distinguished by dots, downward sloping diagonal lines, and upward sloping diagonal lines, respectively. The color of the diagonal lines indicates the predicted severity level as specified by the corresponding color of the Phase Classification.
- **Sustained Conditions:** In general, the longer a crisis continues the relatively more essential it is to address underlying or structural causes if interventions have any chance of sustained positive effects. A purple border denotes areas of “sustained” levels of crisis in Phase 3, 4, or 5 for greater than three years (though an arbitrary threshold, it is inclusive of several seasonal cycles). By hi-lighting these areas, it informs the type of strategic response and draws attention to “forgotten emergencies” for which complacency may have set in.
- **Defining Attributes of Crisis Areas.** For each area currently in or at risk of Phase 3, 4, or 5 a call-out box is included with situation specifics. A symbol key is provided for each defining attribute, including:
 - Key immediate hazards
 - Key underlying causes
 - Estimated magnitude (i.e., the number of people estimated in Phase or at High Risk)
 - Criteria for social targeting
 - Usual Phase prior to current (which allows for distinction between chronic and transitory food insecurity)
 - Projected trend
 - Overall confidence level of analysis (which is an overall, heuristic statement on the confidence of the analysis as assessed by the analyst)

The key is generic, whereas the call-out boxes contain the specific attributes relevant to that crisis area. The attributes currently include those which have relevance to various places in Somalia. However, this can easily be expanded to suit a wider array of situations.

Figure 3: Spatial Delineation & Early Warning Levels

Phase	
1	Generally Food Secure
2	Chronically Food Insecure
3	Acute Food and Livelihood Crisis
4	Humanitarian Emergency
5	Famine / Humanitarian Catastrophe

Early Warning Levels for worsening Phase	
	Alert
	Moderate Risk
	High Risk
} colour of diagonal lines indicates severity	
	Sustained Phase 2 or 3 for > 3 yrs
	Areas with IDP Concentrations

Figure 4: Defining Attributes of Crisis Areas

Defining Attributes of Areas in Phase 3, 4 or 5	
Immediate Hazards	
a	Drought
b	Floods
c	Tsunami
d	Civil Insecurity
e	Market Disruptions
f	Disease Outbreaks
g	---
Key Underlying Causes	
A	Post State Conflict
B	Environmental Degradation
C	Social Marginalization
D	---
Estimated Population in Phase	
#	Inclusive of pop. at High Risk
Criteria for Social Targeting	
i	Livelihood system
ii	Wealth group
iii	Ethnicity/Clan
iv	Gender
v	---
Usual Phase Prior to Current	
1	Generally Food Secure
2	Chronically Food Insecure
Projected Trend	
↑	Improving Situation
↔	No Change or Uncertain or mixed
↓	Worsening Situation
Confidence Level of Analysis	
*	Low
**	Medium
***	High

5.3 Standardized Population Tables

Concepts

The IPC is not a method and does not, in itself, offer guidance on how to estimate of the number of people in crisis. There are numerous ways to go about this. FSAU utilizes one particular methodology that is based on an understanding of wealth group figures within specific livelihood zones. The purpose of this manual is not to go into detail on this method (for more information see the appropriate sections within the FSAU web site: <http://www.fsausomali.org>). Whatever method is used to estimate populations, it is necessary to have a consistent and meaningful way to represent those findings.

There is an important distinction, however, in the way the IPC represents population figures from commonly used methods. Often times analysis presents the ‘number of people in need’ (e.g., number in need of food aid, water, health services, etc.). The IPC, however, does not make such conclusions and merely identifies the number of people estimated to be in Phase 3, 4, or 5—without an *a priori* statement about whether or not they *need* anything (in terms of resource transfer). Consistent with its emphasis on Situation Analysis, rather than Response Analysis, the Population Tables provide the basic information to decision makers, who, through in-depth analysis of the potential response options, can then decide if the crisis situation can be mitigated through non-resource transfer means (such as policy change, negotiations, market interventions, etc.), or through resource transfer (such as food aid, cash aid, etc.), or a combination of both. Sector specific needs-based population tables would be useful and complement the ones used in the IPC.

Specifications

The Population Tables identify the estimated number of people in Phase 3, 4, or 5 (including those at High Risk) by administrative boundaries (e.g., regions, districts, etc.), livelihood zones, and main livelihood systems. The percent of population in each phase is also identified. The example below illustrates the Population Tables by regions in Somalia. Liberal usage of footnotes provides more detailed clarifications on sources and interpretations where necessary (see FSAU 2005 for a comprehensive example of population estimates).

Table 21: Estimated Population by Region in Humanitarian Emergency and Acute Food and Livelihood Crisis

Affected Regions	Estimated Population of Affected Regions ¹	Assessed and Contingency Population in AFLC and HE		
		Acute Food and Livelihood Crisis (AFLC) ²	Humanitarian Emergency (HE) ²	Total in AFLC or HE as % of Region Population
North				
Bari	235,975	45,000	0	19
Nugal	99,635	20,000	0	20
Sanag	190,455	55,000	0	29
Sool	194,660	50,000	0	26
Togdheer	302,155	40,000	0	13
Coastal (fishing)		20,000		
SUB-TOTAL	1,022,880	230,000	0	22
Central				
Galgadud	319,735	40,000	0	13
Mudug	199,895	20,000	0	10
SUB-TOTAL	519,630	60,000	0	12
South				
Bakol	225,450	45,000	105,000	67
Bay	655,686	135,000	395,000	81
Gedo	375,280	80,000	180,000	69
Hiran	280,880	55,000	0	20
Lower Juba	329,240	60,000	115,000	53
Middle Juba	244,275	50,000	120,000	70
SUB-TOTAL	2,110,811	425,000	915,000	63
TOTAL	3,653,321	715,000	915,000	45

Source: FSAU 2006 Post Deyr Food Security Projections

6. CONCLUSION

This Technical Manual provides both overall explanations of the IPC as well as specific technical guidelines for its usage. The case is made as to why a classification system of some type is necessary, and how the IPC in particular attempts to meet key challenges in food security and humanitarian analysis. While this manual attempts to provide requisite details for using the IPC, over repeated experiences analysts and other stakeholders would become increasingly adept as using this tool for food security and humanitarian analysis.

Within the Somalia context the IPC has consistently proven to be an effective tool for improving analysis and informing response. This has been demonstrated for a number of different crisis types (e.g., slow onset drought and economic crises, and rapid onset floods, civil insecurity, and the Tsunami). The IPC has also been successful in drawing attention to ‘forgotten crises’ and ensuring investment in livelihood support. Perhaps the most compelling aspect of the IPC, however, is its ability to enable comparative analysis over space and time. It answers the questions of how does one crisis compare to another in a different location and how has it changed over time?

In the context of food security and humanitarian decision making for Somalia, the IPC has been an integral and guiding aspect of planning. In addition to individual UN, NGO, and government agency’s usage of the IPC to guide local planning, the UN Consolidated Appeals Process consistently uses the analysis of the IPC to guide response planning and appeals for funding. Development oriented planners regularly put out calls for proposals to address livelihoods needs of areas in Acute Food and Livelihood Crisis.

The IPC has also been presented and discussed in dozens forums outside of Somalia ranging from analyst-practitioner workshops to global level IASC meetings. Indeed, the development of the IPC has been an iterative process over the past two years, and has drawn directly from constructive comments made at these meetings. Appendix 7.2 reviews some of the questions that are frequently asked at such presentations, and their answers. While not all of the constructive comments and suggestions have been incorporated into this version of the IPC, the overall feedback from the numerous forums has been positive. As such it is hoped that the IPC will contribute to global efforts to harmonize and improve food security and humanitarian analysis for action. The current version of the IPC should be seen as a usable platform for current use and future development. These last two sections discuss the potential for replication and future challenges.

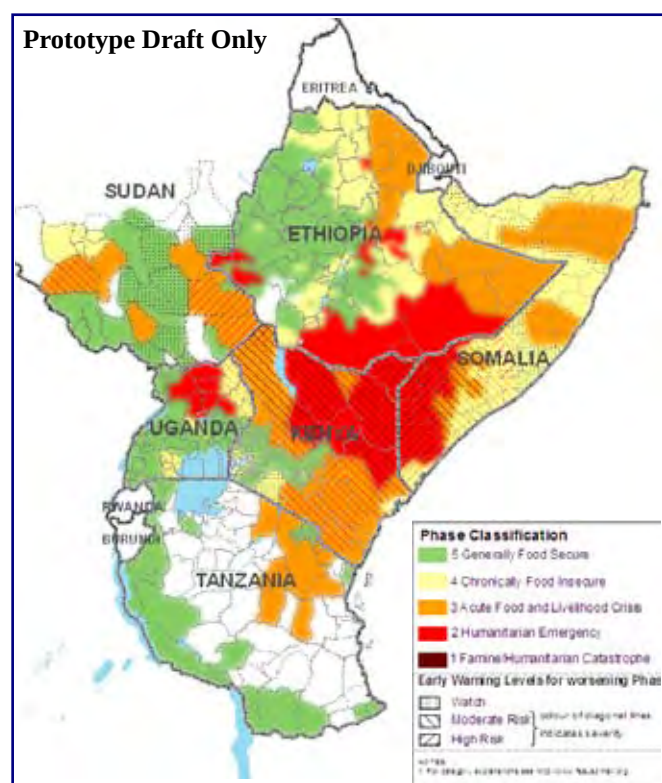
6.1 Potential for Replication and Expansion

During the current cross-border drought affecting Kenya, Ethiopia, and Somalia, the FSAU twice convened analysis workshops with analysts from the region with the goal of applying the IPC to the cross border areas.

Following the Greater Horn of Africa Climate Outlook Forum, FSAU, FEWS NET, WFP, and several GHA ministry representatives used the IPC to interpret the climate predictions for the food security outlook. Although the resulting analysis is only in prototype and draft form (due to the need to seek technical consensus within each country and the need to rigorously apply the evidence-based analysis), even the draft result is telling both analytically and in terms of demonstrating the potential for the IPC to inform regional analysis and response.

The map above is a prototype result of this process. The GHA Regional Food Security and Nutrition Working Group has endorsed the IPC as a means to enable comparability and improve analytical rigour across the region, and is convening a technical workshop on June 5th and 6th of this year to bring analysts from the GHA countries together and apply the IPC for a region-wide food security outlook statement.

Map 2: Greater Horn of Africa Food Security Projection July to Dec ‘06--Based on a below normal rainfall scenario (March ‘06)



*This Map is based on preliminary results and is yet to be officially endorsed.

Source: FSAU, FEWS NET, WFP, CARE, SC UK, OCHA, UNICEF, FAO, GOK

Given that the IPC is based on internationally accepted standards, and with the understanding that it does not replace existing methodologies or analytical information systems (but is an add-on), there is great potential for further replication and expansion. Use of the IPC to classify a situation still allows various institutions to tailor the end-use of the IPC statements to meet specific needs of target clients.

Application of the IPC to country level analysis requires drawing from, or creating, a forum for technical coordination and consensus building. In most countries such forums already exist (e.g., the Vulnerability Assessment Committees throughout Southern Africa, the Kenya Food Security Steering Group, the Disaster Preparedness and Prevention Agency in Ethiopia, CILSS in West Africa, the Livelihood Analysis Forum in South Sudan, and others).

6.2 Future Challenges and Way Forward

The IPC, if widely applied, would better rationalize humanitarian assistance in terms of reaching people most in need and ensuring effective use of resources. Ensuring its technical integrity however, will require adherence to an evidence-based approach. Usage of the IPC would be undermined over time if users classify situations without appropriate substantiation (either direct or indirect evidence).

Further development and revisions of the IPC is a near certainty. This will occur through technical feedback on this Manual as well as further piloting and testing in different country and regional contexts.

The overall vision of the IPC is consistent with existing efforts such as the SMART, Benchmarking, and Humanitarian Tracking System initiatives, and the Sphere Project to better harmonize food security and humanitarian analysis. The recently launched Central Emergency Response Fund (OCHA 2006) will need some basis for making objective decisions for humanitarian assistance, and the IPC well meets that need.

In order to achieve this greater vision, the broad food security and humanitarian community must come together in forums, such as the Inter-agency Standing Committee and others, to technically review and eventually adopt a common classification system that meets international standards, is adaptable to a wide array of situations and contexts, and is practical in the field. It is hoped that the IPC will contribute to this debate and development.

7 APPENDIX

7.1 Selected list of Forums at which the IPC has been presented

While the IPC's development over the past two years has been driven first and foremost by the day to day realities of applied analysis, there have also been dozens of opportunities to present the IPC at a wide range of meetings and workshops. Each of these presentations has generated considerable interest and constructive feedback, which has directly led to further development of the IPC. Listed below are just a few of these forums, which is followed by answers to some of the frequently asked questions.

Somalia Humanitarian Response Group Meetings (Nairobi)
 Somalia Food Security and Rural Development Meetings (Nairobi)
 FSAU Analysis Workshops (Somalia)
 OCHA GHA Regional Scenario Development Workshops (Nairobi)
 OCHA GHA Regional CAP Workshops (Nairobi)
 GHA Drought Crisis Media Briefings (Nairobi)
 GHA Climate Outlook Forums (Nairobi)
 UNICEF Regional Workshop (Nairobi)
 GHA Food Security and Nutrition Working Group Meetings (Nairobi)
 Save the Children HEA Practitioners Workshop (Nairobi)
 FAO Emergency Coordinators Workshop (Nairobi)
 FAO ESAF Out posted Officers Workshop (Rome)
 FAO/WFP Needs Analysis Framework Workshop (Nairobi)
 FAO Sustainable Livelihoods Seminar (Rome)
 FAO TCE Seminar (Rome)
 FAO Emergency Needs Assessment Workshop (Nairobi)
 WFP ODAN/VAM Seminar (Nairobi)
 GHA Cross Border Analysis Workshop (Nairobi)
 FEWS NET II Workshop (Johannesburg)
 Southern Africa Vulnerability Assessment Committee Methodology Review Workshop (Johannesburg)
 Asian FIVIMS Workshop (Bangkok)
 USAID GHA Regional Analysis Workshop (Nairobi)
 IASC 64th Meeting (Rome)
 Regional Horn of Africa Appeal Launch to Permanent Representatives of Donor Countries (Geneva)
 European Forum on International Disaster Response Laws, Rules and Principles (IDRL)
 RC/RC National Societies, UN and IOs, and NGOs. Senior Managers of the IFRC Federation
 WFP SENAC Board Meeting (forthcoming, Rome)
 ALNAP Meeting (forthcoming, Nairobi)

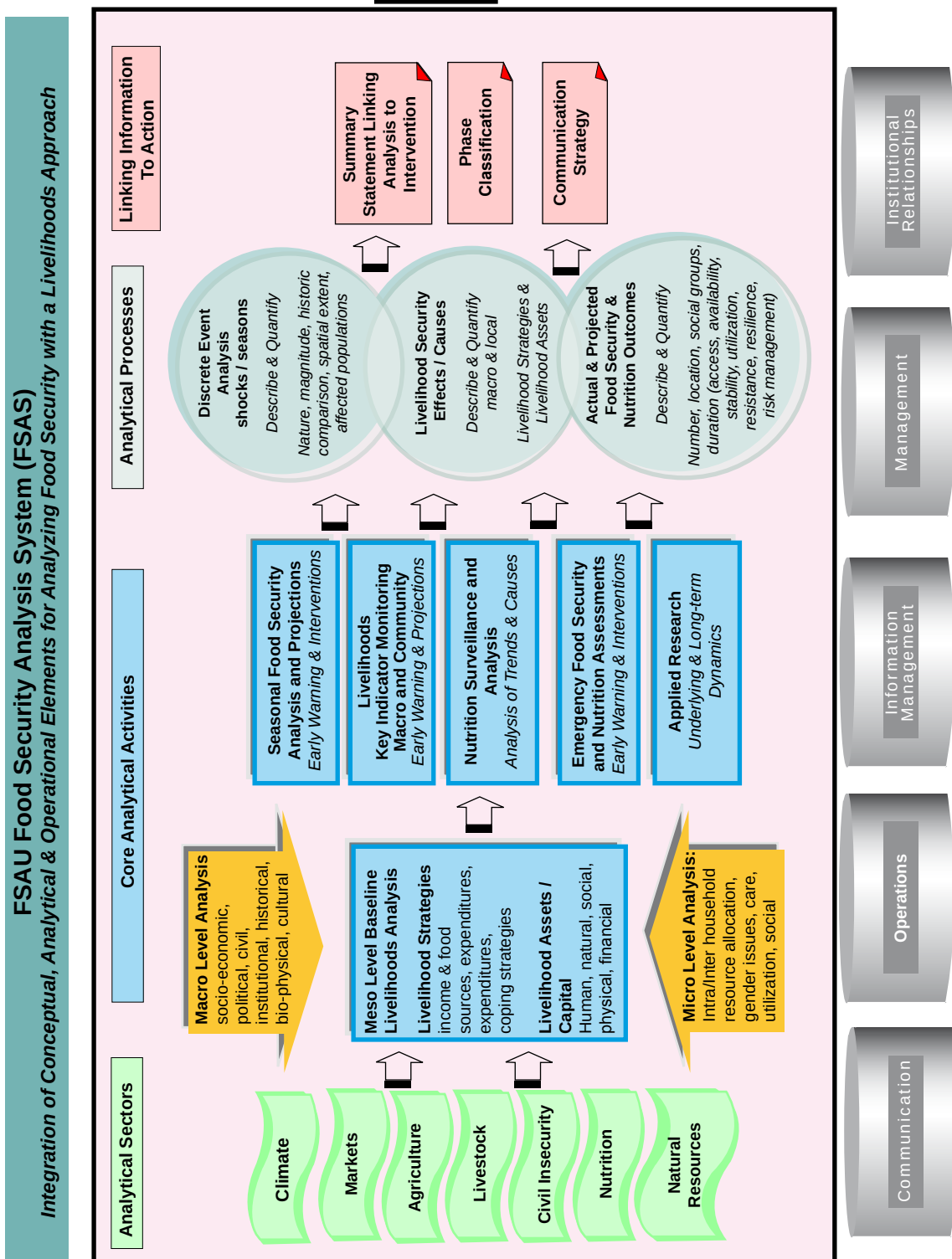
7.2 Frequently Asked Questions (FAQs)

- ***Is the IPC too technically complex for decision makers to understand?*** While any classification system will have some degree of complexity, based on repeated experiences using the IPC (well over one hundred) describing food security and humanitarian situations in Somalia and the Greater Horn of Africa to a broad range of analysts and high level decision makers (including Presidents, Permanent Secretaries, Ministers, the Special Envoy, the UN Under Secretary for Humanitarian Affairs, and heads of UN, NGO, and donor agencies), this is not the case. On the contrary, without exception each of these decision makers has readily understood the main thrust of the IPC, the logic behind it, and the implications for action. Further, numerous members of the media (from Reuters, AP, BBC, VOA, CNN, IRIN, Le Monde, Financial Times, and others) have positively welcomed the IPC as a means of clear communication to mass audiences. While underpinning the IPC are layers of complex analyses, the situation analysis and implications for action are presented in a simple manner. This broad accessibility enables technical consensus not just among analysts, but with other stakeholders as well. The IPC is like a tree with a complex root structure (analysis) that forms the foundation of a much simpler trunk (the situation classification).
- ***What if some of the Key Reference Outcomes 'benchmarks' are reached but not others?*** The overarching strategy of the IPC is not based on thresholds and benchmarks as much as it is based on analysts' interpretation of all available evidence with clear reference to the IPC Key Reference Outcomes. This 'convergence of evidence' approach is different from approaches that rely on clear cutoffs of limited indicators. While the

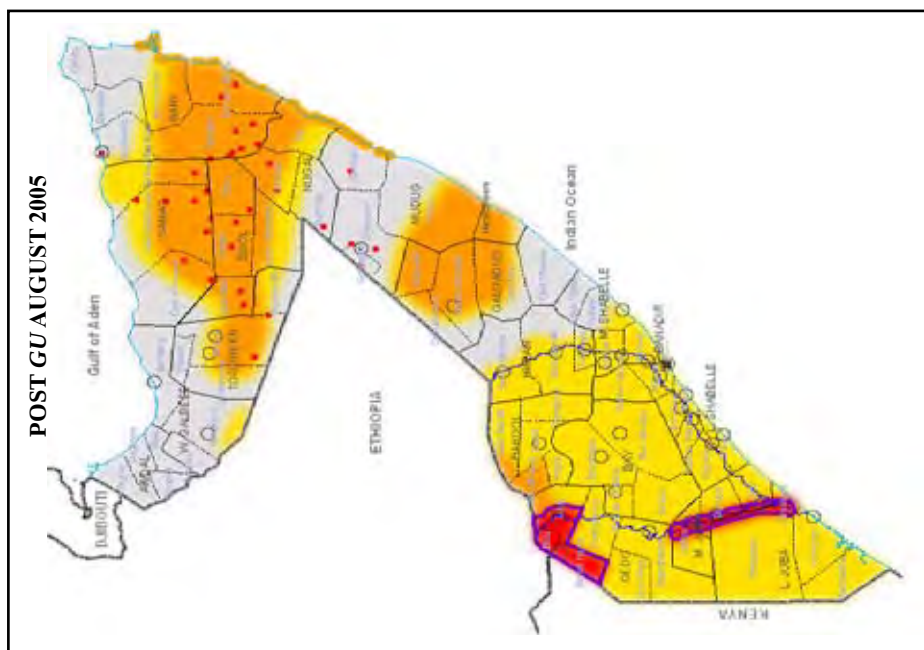
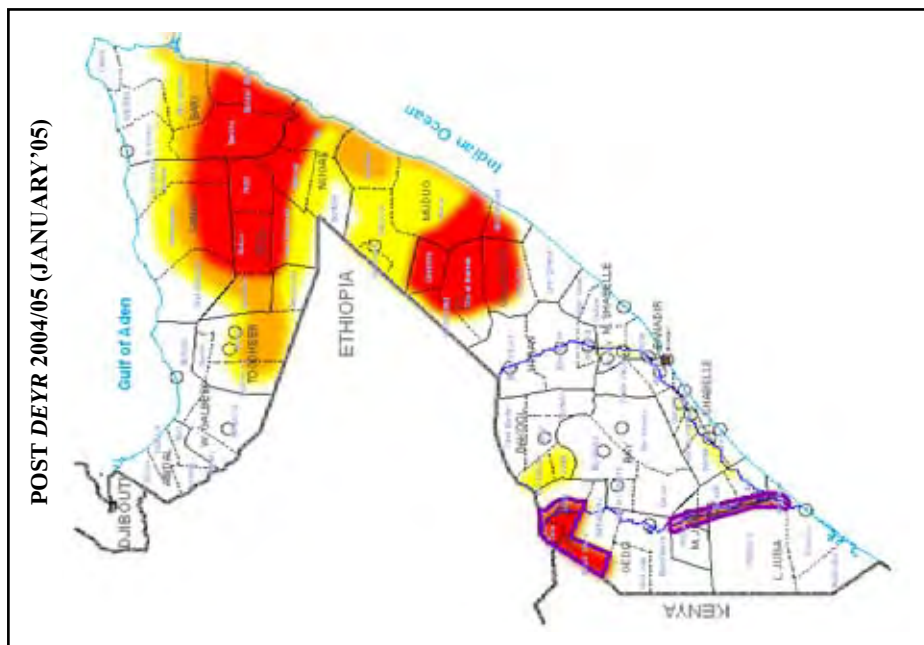
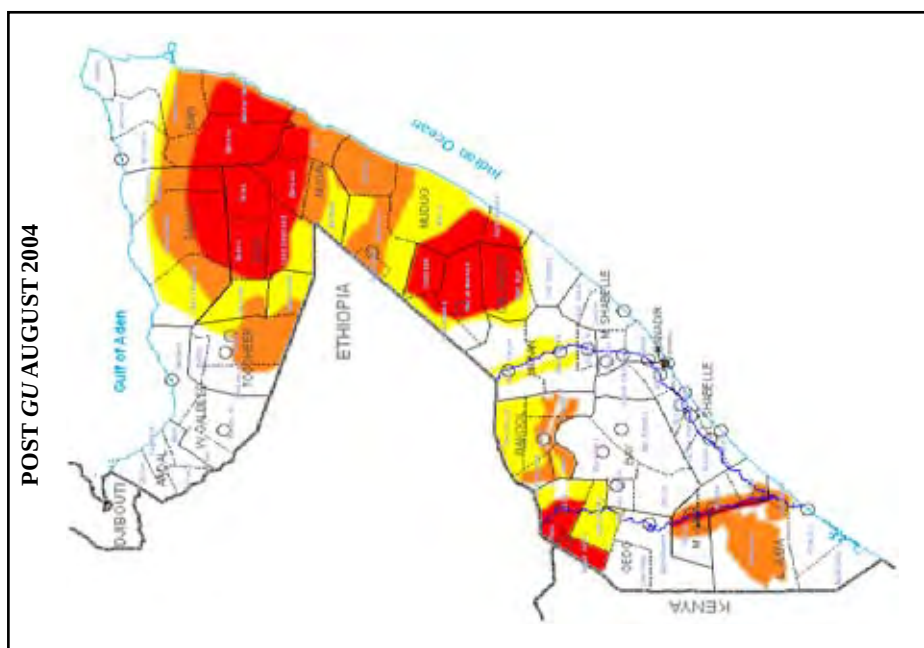
ideal goal is to have rigorous and measurable thresholds to define Phase Classifications, from a practical and field perspective (including issues of crisis complexity, livelihoods complexity, information urgency, widely varying data availability, analysis capacity, and others) it is eminently more practical to classify overall food security and humanitarian situations with a convergence of evidence approach. An academic purist may insist on absolute thresholds, but this is not always feasible from a field perspective. The IPC bridges academic and internationally accepted thresholds with field practicality.

- ***What if variation of severity is greater within a specified area than across areas?*** The point of mapping areas is to capture the general situation in a given area for planning purposes—surely there is great variation within a given area which does pose special challenges for analysis and targeting humanitarian assistance. The IPC accommodates this to some degree by (1) identifying specific social groups within a geographic area who are at risk, and (2) identifying, where necessary, numbers of people in conditions of Humanitarian Emergency as well as in Acute Food and Livelihood Crisis if they co-exist in a given area. Even for areas that are classified as ‘Generally Food Secure’ the IPC recognizes that pockets of food insecurity can still exist, and in the Strategic Response Framework the first action listed is to address those pockets. If small area analysis is necessary, it is equally possible to apply the IPC to limited geographic areas as small as individual villages if desired.
- ***Isn’t it adequate to just monitor the outcomes as measured by nutrition indicators?*** No. With regards to nutrition indicators, the IPC explicitly draws from this information, but, importantly, not exclusively. This is critical from both a practical perspective (as such nutrition data is not always available and needs to be triangulated with other food security data), as well as a conceptual perspective (it is well accepted that nutrition is a late outcome indicator of food insecurity, which means that responses that are solely based on such data are likely to either (1) be too late to save lives that could have been saved, and/or (2) miss out on the opportunity (if not imperative) to initiate appropriate responses earlier so as to prevent livelihood destruction, and thus entry into a poverty trap. Thus, the IPC draws from nutrition data, but also draws from indicators that provide both triangulation and earlier indications that crisis is imminent.
- ***Can the IPC be applied in country settings where a comprehensive data collection and analysis unit like the FSAU does not exist?*** Yes. FSAU operates in a context where there is no central government to maintain and provide basic statistical data sets, and for which field access is often times limited due to security restrictions. Most other countries in the world regularly collect important data that can be used to support the IPC. Further, in countries of recurrent crises, there are a plethora of UN and NGO agencies that regularly conduct surveys and have monitoring systems that would support the IPC. The challenge is to draw from existing data availability and make the best use of it, while prioritizing future data collection efforts to have the most meaningful use.
- ***Since the IPC was developed in the Somalia context, isn’t it ‘Somalia-specific’?*** No. The concepts and reference outcomes of the IPC are explicitly drawn from internationally accepted standards (e.g., the Sphere standards), which are equally applicable any where in the world. Different contexts, however, will require some flexibility, which is ‘built-in’ to the IPC, while providing a framework for rigour and reasonable comparability.

7.3 FSAU Food Security Analysis System (FSAS)

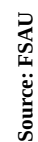


7.4 Comparison of FSAU Integrated Phase Classification for Gu 2004, Deyr 2004/05 and Gu 2005.



Source: FSAU

appendix



7.6 Existing Food Security Phase Classifications

FEWSNET ALERT LEVELS

■ EMERGENCY

A significant food security crisis is occurring, where portions of the population are now, or will soon become, extremely food insecure and face imminent famine. Decision makers should give the highest priority to responding to the situations highlighted by this Emergency alert.

■ WARNING

A food crisis is developing, where groups are now, or about to become, highly food insecure and take increasingly irreversible actions that undermine their future food security. Decision makers should urgently address the situations highlighted by this Warning.

■ WATCH

There are indications of a possible food security crisis. Decision makers should pay increasing attention to the situations highlighted in this Watch, and update preparedness and contingency planning measures to address the situation.

■ NO ALERT

There are no indications of Food Security problems.

Source: <http://www.fews.net/alerts/index.aspx?pageID=alertLevelsDefined>

7.7 Arid Lands Resource Management Project, Early Warning System - Warning Stages

NORMAL:	Environmental, livestock and pastoral welfare indicators show no unusual fluctuations and remain in the expected seasonal range.
ALERT:	Environmental indicators show unusual fluctuations outside expected seasonal ranges. This occurs within the entire district, or within localised regions, OR: Asset levels of households are still too low to provide an adequate subsistence level and vulnerability to food insecurity is high.
ALARM:	Environmental and livestock/ agricultural indicators fluctuate outside the expected seasonal ranges, affecting the local economy. This condition occurs in most parts of the district and directly and indirectly threatens food security of pastoralists and/or agro-pastoralists.
EMERGENCY:	All indicators are fluctuating outside the normal range. Local production systems are collapsed as well as the dominant economy within the district. The situation affects the asset status and purchasing power of the population to an extent that welfare levels have been seriously worsened resulting in famine threat.

Source: Ministry of Health, SCF-UK and Oxfam-GB. Report of Nutrition Survey in Central Division, Wajir District North Eastern Province, Kenya, August 31 to September 4, 2000
<http://www.univ-lille1.fr/pfeda/Ethiop/Docs01/0105scf.doc>

7.8 Famine Magnitude Scale of Howe and Devereux

Levels	Phrase designation	'Lives': malnutrition and mortality indicators	'Livelihoods': food security descriptors ¹⁶
0	Food security conditions	CMR < 0.2/10,000/day and Wasting < 2.3%	Social system is cohesive; prices are stable; negligible adoption of coping strategies.
1	Food insecurity conditions	CMR ≥ 0.2 but < .5/10,000/day and/or Wasting ≥ 2.3 but < 10%	Social system remains cohesive; price instability, and seasonal shortage of key items; reversible 'adaptive strategies' are employed.
2	Food crisis conditions	CMR ≥ .5 but < 1/10,000/day and/or Wasting ≥ 10 but < 20% and/or prevalence of Oedema	Social system significantly stressed but remains largely cohesive; dramatic rise in price of food and other basic items; adaptive mechanisms start to fail; increase in irreversible coping strategies.
3	Famine conditions	CMR ≥ 1 but < 5/10,000/day and/or Wasting ≥ 20% but < 40% and/or prevalence of Oedema	Clear signs of social breakdown appear; markets begin to close or collapse; coping strategies are exhausted and survival strategies are adopted; affected population identify food as the dominant problem in the onset of the crisis.
4	Severe famine conditions	CMR ≥ 5 but < 15/10,000/day and/or Wasting ≥ 40% and/or prevalence of Oedema	Widespread social breakdown; markets are closed or inaccessible to affected population; survival strategies are widespread; affected population identify food as the dominant problem in the onset of this crisis.
5	Extreme famine conditions	CMR ≥ 15/10,000/day	Complete social breakdown; widespread mortality; affected population identify food as the dominant problem in the onset of the crisis.

Source: Howe, P. & S. Devereux. 2004. Famine intensity and magnitude scales: A proposal for an instrumental definition of famine. *Disasters* 28(4), 353-372. p 10

7.9 Objectives of Each Stage of Situation and Response Analysis

Stage	Overall Objective
Situation Analysis	To identify foundation aspects of a given situation upon which there should be technical consensus, including severity, magnitude, causes, and others.
Response Analysis	To identify the range of potential strategic responses (and their linkages) that could best mitigate short and longer term aspects of a situation, as well as the requirements to implement the response.
Response Planning	To identify and put in place operational requirements and systems, including advocacy and fund raising, to enable effective response.
Response Implementation	To implement multiple aspects of effective response including operational modalities and ensuring desired impact
Monitoring / Evaluation	To detect any changes in the Situation Analysis and determine degrees of impact of response.

7.10 Vulnerability Models - Turner et al. 2003

Fig. a Vulnerability framework. Components of vulnerability identified and linked to factors beyond the system of study and operating at various scales.

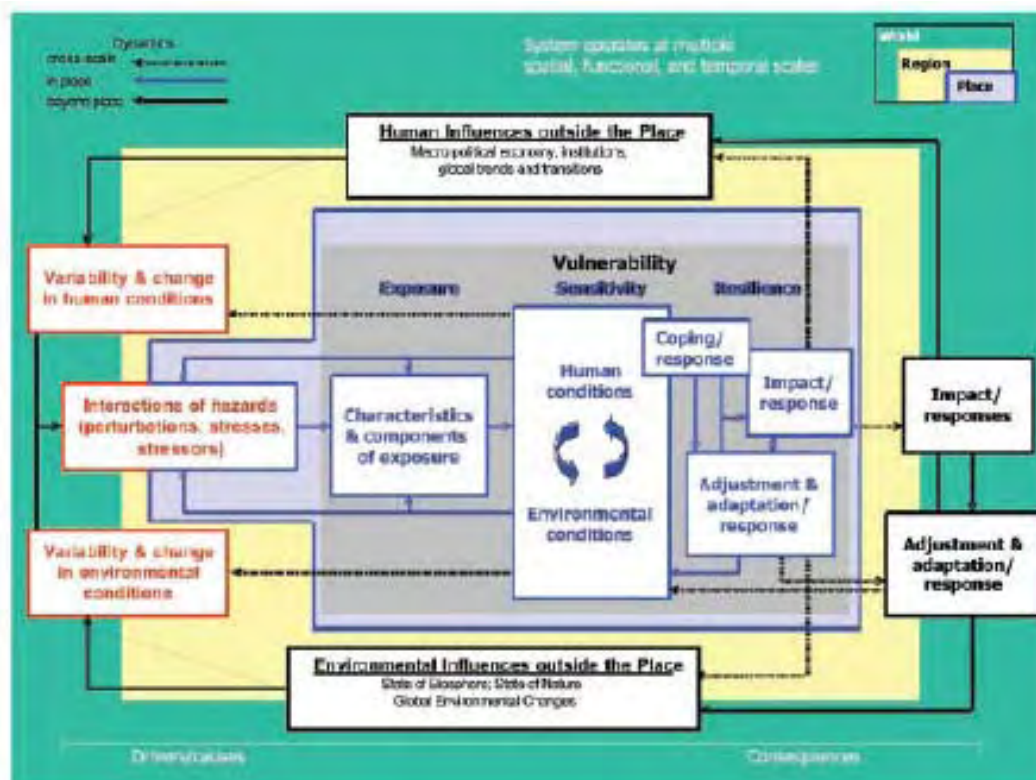
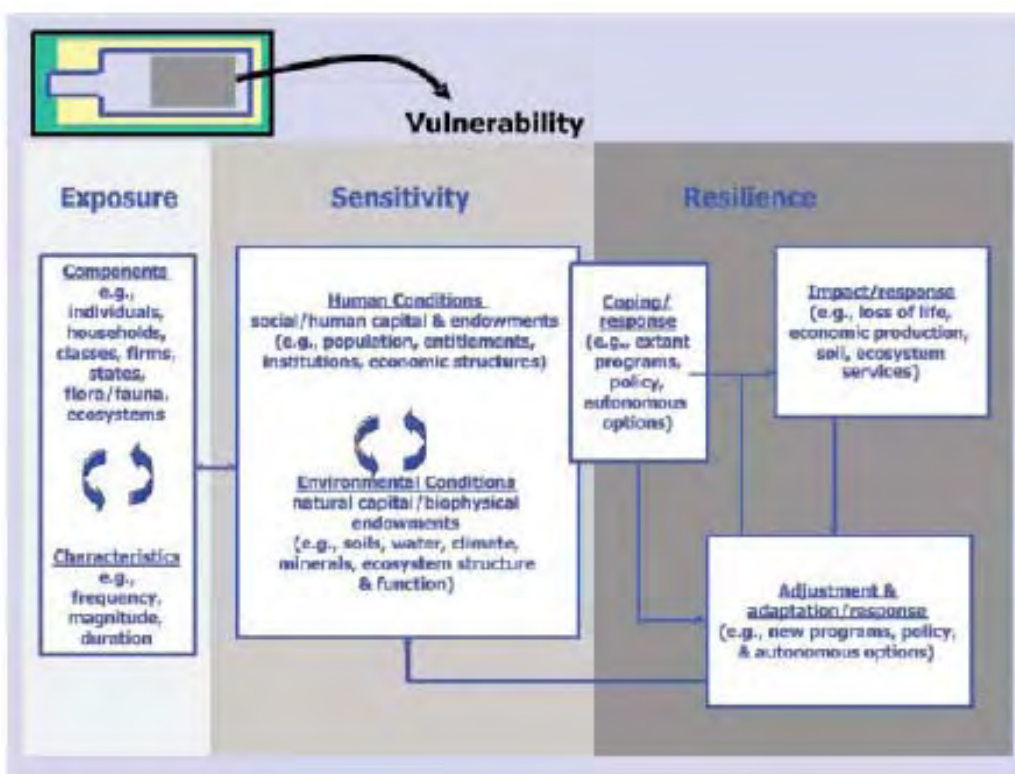


Fig b. Details of the exposure, sensitivity, and resilience components of the vulnerability framework. Figure at the top left refers to the full framework illustrated in Fig. A



Source: Turner, B.L., R. Kasperson, P. Matson et al. 2003. A framework for vulnerability analysis in sustainability science. *Proceedings of the National Academy of Sciences of the United States of America* 100 (14), 8074-8079.

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