



**Food Security and Nutrition  
Analysis Unit Somalia**

*Information for Better Livelihoods*



*Post Gu '12*

# Presentation

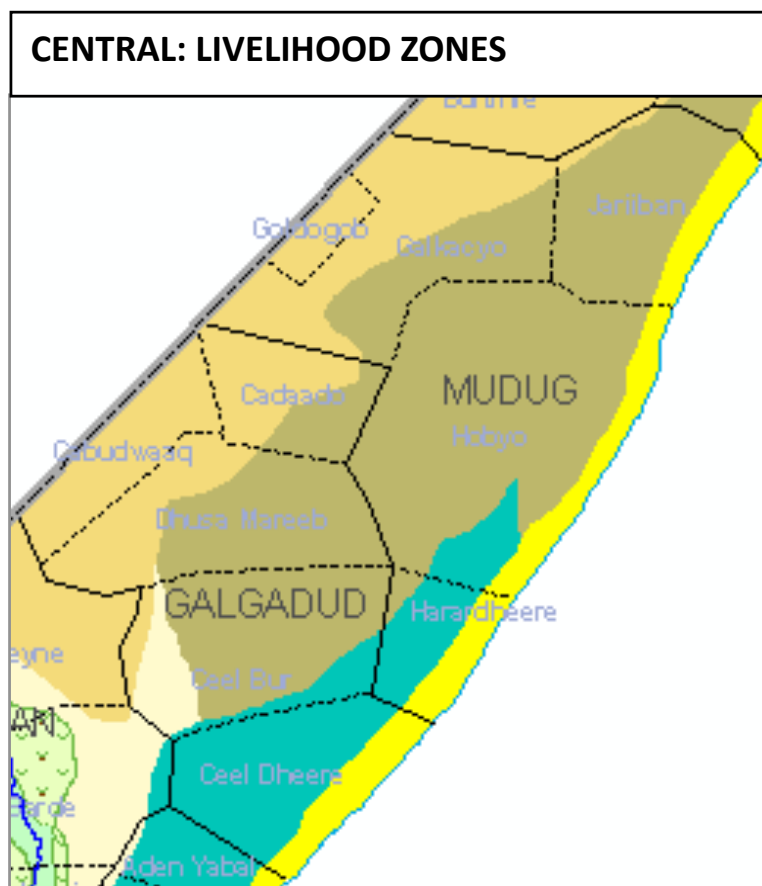
January 22, 2013



## Central Region



# Main Livelihood Zones



There are 4 livelihood zones in Central regions:

## 1. Hawd Pastoral LZ :

Mainly involved in rearing of camel. Sheep and goats are of subsidiary.

## 2. Addun Pastoral LZ :

Sheep rearing is most important. Goats and camel are subsidiary.

3. Cowpea Belt Agro-pastoral LZ involved in production & sale of cowpea

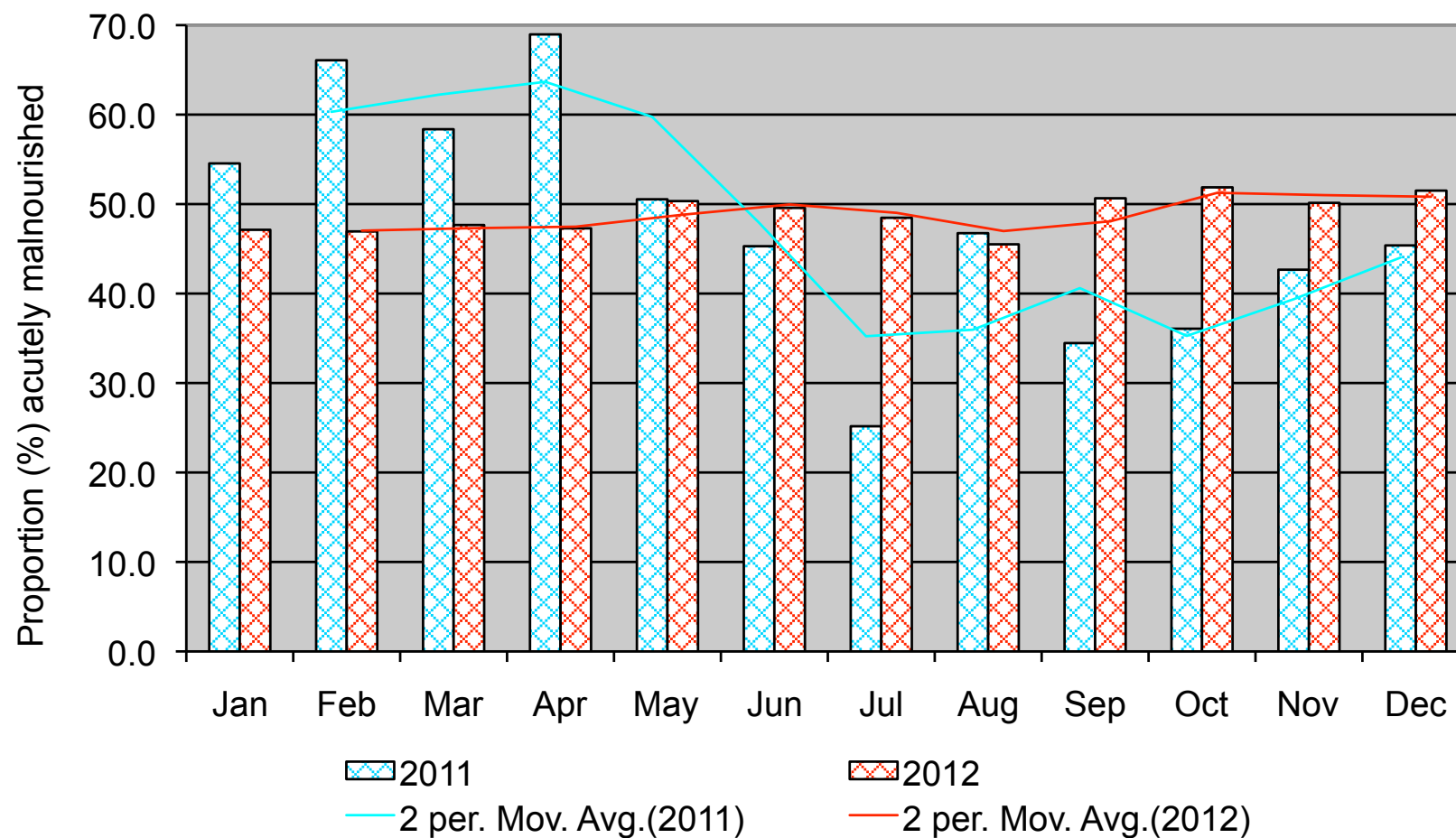
## 4. Coastal Deeh LZ:

Sheep rearing and fishing

| Outcome indicators                            | Dusamareb IDPs, Summary of Findings |                             |                                     |
|---|-------------------------------------|-----------------------------|-------------------------------------|
|   | Deyr'11/12 (N=205)<br>Dec '11       | Gu'12 (N=200)<br>May '12    | Deyr' 12/13 (N=571)<br>November '12 |
| <b>Child Nutrition status</b>                 |                                     |                             |                                     |
| ○ GAM (WHZ<-2 or oedema)                      | 27.3 (21.3-34.3)                    | 22.0 (16.1-29.3)            | 22.6                                |
| ○ SAM (WHZ<-3 or oedema)                      |                                     | -1.04                       | -1.14                               |
| ○ SAM (WHZ<-3 or oedema)                      | 2.9 (1.4-6.2)                       | 5.0 (2.5-9.8)               | 5.8                                 |
| ○ Oedema                                      | 0.0                                 | 0.5                         | 0.2                                 |
| ○ MUAC (<12.5 cm or oedema)                   | 22.9 (16.9-30.4)                    | 8.9 (5.1-15.1)              | 15.8                                |
| ○ MUAC (<11.5 cm or oedema)                   | 1.5 (0.5-4.5)                       | 2.0 (0.6-6.5)               | 1.4                                 |
| <b>Crude death Rate/10,000/day (90days)</b>   | 1.04                                | -                           | 0.85                                |
| <b>Under 5 death Rate/10,000/day (90days)</b> | 2.15                                | -                           | 1.90                                |
| ○ HIS Nutrition Trends                        | N/A                                 | N/A                         | N/A                                 |
| ○ TFPs/SFPs Admission trends                  | N/A                                 | N/A                         | N/A                                 |
| Non-pregnant women with MUAC <18.5 cm         | -                                   | -                           | 0.8                                 |
| Pregnant & Lactating women with MUAC<21.0 cm  | -                                   | -                           | 19.9                                |
| Pregnant & Lactating women with MUAC<23.0 cm  | -                                   | -                           | 43.0                                |
| <b>OVERALL NUTRITION SITUATION</b>            | <b>Very Critical</b>                | <b>Very Critical</b>        | <b>Very Critical</b>                |
| <b>Child Morbidity, Immunization, IYCF</b>    |                                     |                             |                                     |
| ○ Disease Outbreaks:                          | No outbreak                         | No outbreak                 | No outbreak                         |
| ○ Morbidity based on 2wk recall               | Morbidity – 21.5                    | Morbidity – 34.2            | Overall morbidity: 37.3             |
| ○ Immunization status/Vit. A                  |                                     | Measvac:88.1<br>vitA: 72.8  | Meas Vac: 12.1<br>Vitamin A: 55.9   |
| ○ Children eating from <4 fdgps               | -                                   | 5.8                         |                                     |
| ○ Children meeting min. feeding freq.         |                                     | 72.6                        |                                     |
| <b>Public Health Indicators; Gender</b>       |                                     | <b>N=118</b>                | <b>N= 270</b>                       |
| ○ Households (HH) accessing safe water        | N/A                                 | 78.0                        | 97.7                                |
| ○ HH accessing sanitation facilities          | N/A                                 | 61.9                        | 98.7                                |
| ○ Relation between GAM & child sex            | N/A                                 | Statistically Significant   | Statistically Significant           |
| ○ Relation between GAM & sex of hh head       | N/A                                 | Statistically Insignificant | Statistically Insignificant         |
| <b>Food Security Phase</b>                    | <b>Emergency</b>                    | <b>Emergency</b>            | <b>Emergency</b>                    |
| Proportion of hh consuming <4 fd gps          | N/A                                 | 11.9                        | 2.7                                 |
| <b>Overall Risk to Deterioration</b>          | <b>Uncertain</b>                    | <b>Uncertain</b>            | <b>Uncertain</b>                    |

| Outcome indicators                                      | HAWD Livelihood Zone, Summary of Findings   |  |  |
|---|---|--|--|
|   | Deyr'11/12 (N= 566)<br>Dec '11  | Gu'12 (N= 816)<br>June '12             | Deyr' 12/13 (N= 686)<br>December '12   |
| <b>Child Nutrition status</b>                           |   |  |  |
| ○ GAM (WHZ<-2 or oedema)                                | 18.6 (14.5 –23.4)<br>15.8 (12.5-19.7)[CESVI, Dec '11]   | 11.2 (8.9-14.0)                        | 14.4 (11.2 –18.3)                      |
| ○ Mean WHZ  | -0.91 ±1.23   | -0.71 ±1.06                            | -0.79±1.08                             |
| ○ SAM (WHZ<-3 or oedema)                                | 5.5 (4.0 –7.4)<br>3.0 (1.8-4.8)[CESVI, Dec '11]   | 1.8 (0.9-3.4)                          | 1.9 (1.1 –3.4)                         |
| ○ Oedema  | 0.9   | 0.0                                    | 0.0                                    |
| ○ MUAC (<12.5 cm or oedema)                             | 10.6 (8.1 –13.8)  | 5.4 (3.3-8.6)                          | 7.4 (5.2 –10.6)                        |
| ○ MUAC (<11.5 cm or oedema)                             | 2.5 (1.5 –4.2)  | 0.4 (0.1-1.1)                          | 1.6 (0.6 –4.3)                         |
| ○ HIS Nutrition Trends                                  | High proportion but fluctuating trends  | High (>30%) and stable                 | High (>30%) and stable                 |
| Non-pregnant women with MUAC <18.5 cm                   | 1.4 (0.2-5.1)   | 6.0 (4.1-8.0)                          | 1.0 (0.0-2.9)                          |
| Pregnant & Lactating women with MUAC<21.0 cm            | 10.4 (4.4-16.4)   | 3.5 (0.7-6.3)                          | 4.3 (1.1-7.5)                          |
| Pregnant & Lactating women with MUAC<23.0 cm            | 33.8 (26.2-42.0)  | 13.5 (9.6-17.3)                        | 19.4 (12.2-26.5)                       |
| <b>Crude death Rate/10,000/day</b> (90days)             | 0.49 (0.28-0.84)  | 0.49 (0.28-0.84)                       | 0.37(0.15-0.90)                        |
| <b>Under 5 death Rate/10,000/day</b> (90days)           | 0.86 (0.30-2.41)  | 0.86 (0.30-2.41)                       | 1.03 (0.33-3.18)                       |
| <b>OVERALL NUTRITION SITUATION</b>                      | Critical  | Serious                                | Serious                                |
| <b>Child Morbidity, Immunization, IYCF</b>              |   |  |  |
| ○ Disease Outbreaks:<br>○ Morbidity based on 2wk recall | AWD outbreak in Adado and Galkayo;<br>Malaria outbreak in Adado district<br>Overall Morbidity: 21.4 | No outbreak<br>Overall Morbidity: 30.6 | No outbreak<br>Overall Morbidity: 37.0 |
| ○ Immunization status/Vit. A                            | Measvac:58.1<br>vitA: 52.7  | Measvac:71.4<br>vitA: 70.2             | Meas Vac 69.2<br>Vitamin A 72.7        |
| ○ Children eating from <4 fdgps                         | 85.5  | 97.6                                   | 95.9                                   |
| ○ Children meeting min. feeding freq.                   | 31.9  | 59.6                                   | 45.3                                   |
| <b>Public Health Indicators; Gender</b>                 | <b>N=320</b>  | <b>N=477</b>                           | <b>N=413</b>                           |
| ○ Households (HH) accessing safe water                  | 32.2  | 44.4                                   | 41.9                                   |
| ○ HH accessing sanitation facilities                    | 62.5  | 76.5                                   | 66.6                                   |
| ○ Relation between GAM & child sex                      | Insignificant   | Insignificant                          | Insignificant                          |
| ○ Relation between GAM & sex of hh head                 | Insignificant   | Insignificant                          | Insignificant                          |
| <b>Food Security Phase</b>                              | AFLC/Crisis   | Crisis                                 | stressed                               |
| Proportion of hh consuming <4 fd gps                    | 3.8   | 1.9                                    | 26.9                                   |
| Mean Coping Strategy Index (CSI)                        | 6.3   | 4.4                                    | 5.1                                    |
| <b>Overall Risk to Deterioration</b>                    | <b>Likely to Improve</b>  | <b>Likely to Improve</b>               | <b>Stable</b>                          |

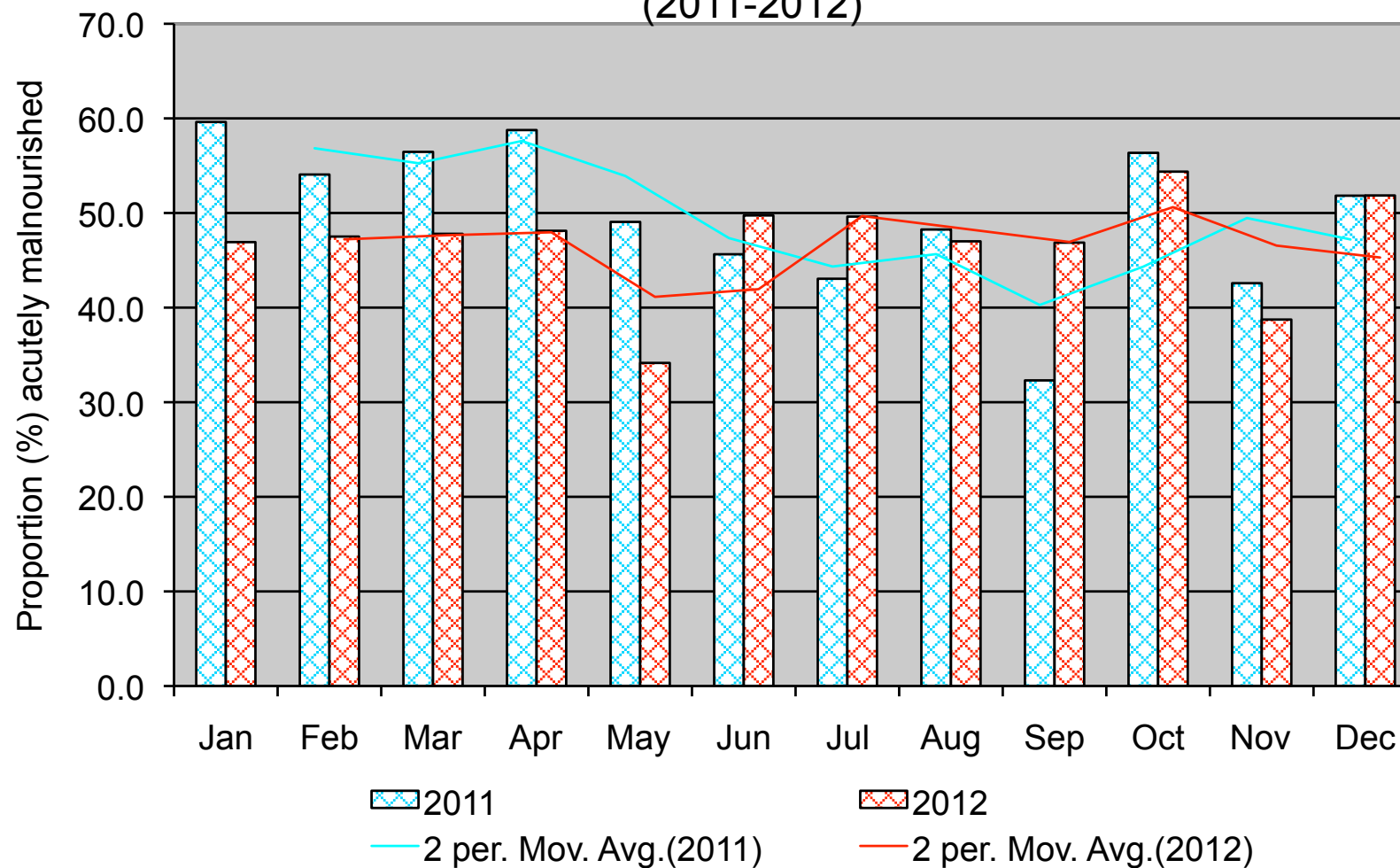
Figure 20: HIS Malnutrition Trends in Hawd L/Z of Central Areas  
(2011-2012)



High (>30%) and stable levels

| Outcome indicators                            | Addun Livelihood Zone, Summary of Findings |                            |                                      |
|---|--|----------------------------|--------------------------------------|
|   | Deyr'11/12 (N= 530)<br>Dec '11             | Gu'12 (N= 701)<br>June '12 | Deyr' 12/13 (N= 649)<br>December '12 |
| <b>Child Nutrition status</b>                 |  |                            |                                      |
| ○ GAM (WHZ<-2 or oedema)                      | 12.1 (9.0 –16.1)                           | 14.5 (11.1 –18.9)          | 12.3 (9.5 –16.0)                     |
| ○ Mean WHZ                                    | -0.62 ±1.19                                | -0.79 ±1.13                | -0.76±1.06                           |
| ○ SAM (WHZ<-3 or oedema)                      | 2.8 (1.6-5.0)                              | 2.4 (1.3-4.3)              | 3.1 (1.9-5.2)                        |
| ○ Oedema                                      | 0.2  | 0.3                        | 0.5                                  |
| ○ MUAC (<12.5 cm or oedema)                   | 2.3 (1.2-4.3)                              | 8.4 (5.8-12.1)             | 5.1 (3.6-7.2)                        |
| ○ MUAC (<11.5 cm or oedema)                   | 0.4 (0.1-1.5)                              | 1.7 (0.9-3.4)              | 0.9 (0.4 –2.4)                       |
| ○ HIS Nutrition Trends                        | High (15%) but decreasing                  | High (>30%) and stable     | High (>30%) and fluctuating          |
| Non-pregnant women with MUAC <18.5 cm         | 0.0  | 0.0                        | 0.5                                  |
| Pregnant & Lactating women with MUAC<21.0 cm  | 4.4  | 5.8                        | 3.8                                  |
| Pregnant & Lactating women with MUAC<23.0 cm  | 14.6                                       | 18.6 (10.5-26.7)           | 22.0 (12.8-31.2)                     |
| <b>Crude death Rate/10,000/day (90days)</b>   | 0.32 (0.16-0.66)                           | 0.48 (0.25-0.92)           | 0.13 (0.05-0.34)                     |
| <b>Under 5 death Rate/10,000/day (90days)</b> | 0.87 (0.31-2.42)                           | 0.58 (0.19-1.76)           | 0.46 (0.15-1.47)                     |
| <b>OVERALL NUTRITION SITUATION</b>            | <b>Serious</b>                             | <b>Serious</b>             | <b>Serious</b>                       |
| <b>Child Morbidity, Immunization, IYCF</b>    |  |                            |                                      |
| ○ Disease Oubreaks:                           | No Outbreak                                | No Outbreak                | No Outbreak                          |
| ○ Morbidity based on 2wk recall               | Overall Morbidity 36.0                     | Overall Morbidity 36.8     | Overall Morbidity 41.6               |
| ○ Immunization status/Vit. A                  | Measvac : 30.1, VitA: 30.6                 | Measvac : 60.8, VitA: 64.9 | Measvac : 57.1, VitA: 59.9           |
| ○ Children eating from ≥4 fdgps               | 95.8                                       | 96.1                       | 94.4                                 |
| ○ Children meeting min. feeding freq.         | 37.8 (22.6 – 53.0)                         | 82.5                       | 41.2                                 |
| <b>Public Health Indicators; Gender</b>       | <b>N=316</b>                               | <b>N=449</b>               | <b>N=390</b>                         |
| ○ Households (HH) accessing safe water        | 48 .0                                      | 16.9                       | 38.5                                 |
| ○ HH accessing sanitation facilities          | 18.6 (4.1 – 33.0)                          | 39.4 (26.0-52.8)           | 52.3                                 |
| ○ Relation between GAM & child sex            | Insignificant                              | Insignificant              | Insignificant                        |
| ○ Relation between GAM & sex of hh head       | Insignificant                              | Insignificant              | Insignificant                        |
| <b>Food Security Phase</b>                    | AFLC/Crisis                                | Crisis                     | Stressed                             |
| Proportion of hh consuming <4 fd gps          | 2.5  | 9.6                        | 15.6                                 |
| Mean Coping Strategy Index (CSI)              | 3.7  | 5.9                        | 6.3                                  |
| <b>Overall Risk to Deterioration</b>          | <b>Likely to improve</b>                   | <b>Likely to sustain</b>   | <b>Likely to sustain</b>             |

Figure 21: HIS Malnutrition Trends in Addun L/Z of Central areas  
(2011-2012)



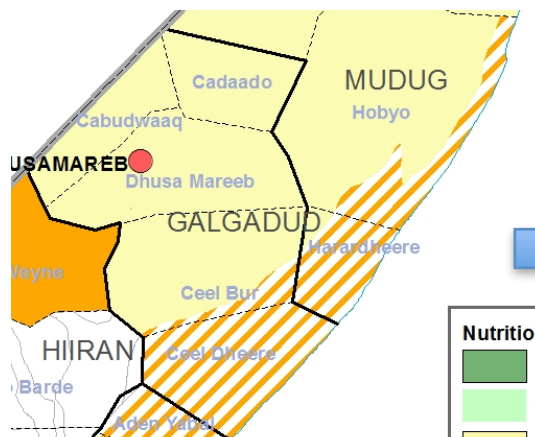
High (>30%) and fluctuating trends

| Outcome indicators                                 | Cowpea belt LZs , Summary of Findings |                                     |  |
|--|---------------------------------------|-------------------------------------|--|
|  | <i>Deyr' 11/11</i>                    | <i>Gu '12 (N=1174)<br/>July '12</i> | <i>Deyr' 12/13 (N= 424)<br/>December '12</i> |
| <b>Child Nutrition status</b>                      |                                       |                                     |  |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>                 | No survey                             | 16.0                                | N/A  |
| ○ <i>Mean WHZ</i>                                  |                                       | -1.01 ±1.60                         |  |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>                 |                                       |                                     |  |
| ○ <i>Oedema</i>                                    |                                       |                                     | 0.0  |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>              |                                       |                                     | 8.0 (5.4 –11.7)                              |
| ○ <i>MUAC (&lt;11.5 cm or oedema)</i>              |                                       |                                     | 0.9 (0.3 –3.3)                               |
| ○ <i>HIS Nutrition Trends</i>                      | No data                               | High (>20%) and stable              | -  |
| ○ <i>TFPs/SFPs Admission trends</i>                |                                       |                                     | -  |
| Non-pregnant women with MUAC <18.5 cm              |                                       |                                     | 2.7 (0.0-6.1)                                |
| Pregnant & Lactating women with MUAC<21.0 cm       |                                       |                                     | 20.7 (8.6-32.8)                              |
| Pregnant & Lactating women with MUAC<23.0 cm       |                                       |                                     | 47.4 (39.3-55.6)                             |
| ○ <b>Crude Death rate/10,000/day</b>               |                                       | 0.76 (0.48 –1.22)                   | 0.34 (0.16-0.72)                             |
| ○ <b>U5 Death rate/10,000/day</b>                  |                                       | 1.46 (0.86 -2.48)                   | 1.21 (0.54 –2.68)                            |
| <b>OVERALL NUTRITION SITUATION</b>                 |                                       | <i>Likely Critical</i>              | <i>Likely Serious</i>                        |
|  |                                       |                                     |  |
| ○ <i>Disease Outbreaks:</i>                        |                                       | No outbreak                         | No outbreak of diseases, overall             |
| ○ <i>Morbidity based on 2wk recall</i>             |                                       | Over all Morbidity 37.1%            | Morbidity; 42.0                              |
| ○ <i>Immunization status/Vit. A</i>                |                                       | MeaslesVac: 3.3%<br>VitA: 2.3%      | Measvac 17.2<br>Vitamin A 24.3               |
| <b>Public Health Indicators; Gender</b>            |                                       |                                     |  |
| ○ <i>HH accessing sanitation facilities</i>        |                                       | -                                   |  |
| ○ <i>Relation between GAM &amp; child sex</i>      |                                       | Statistically Insignificant         | Statistically Insignificant                  |
| ○ <i>Relation between GAM &amp; sex of hh head</i> |                                       | Statistically Insignificant         | Statistically Insignificant                  |
| <b>Food Security Phase</b>                         |                                       | Crisis                              | Stressed                                     |
| <b>Overall Risk to Deterioration</b>               |                                       | <b>Uncertain</b>                    | <b>Likely to sustain</b>                     |

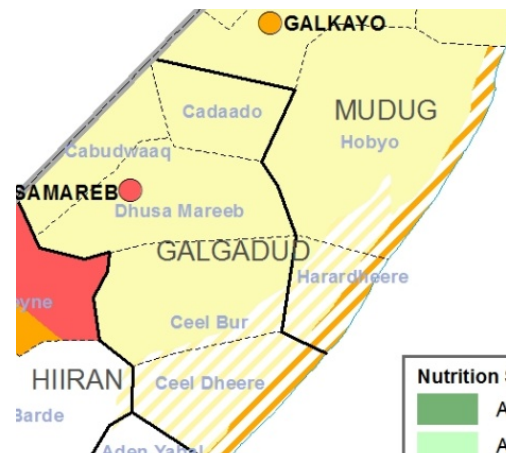


| Outcome indicators                           | Central Coastal Deeh LZs , Summary of Findings |                                |                                       |
|--|--|--------------------------------|---------------------------------------|
|  |  | Gu'2012 (N= 491)<br>July '12   | Deyr '12/13 (N= 358)<br>Decemeber '12 |
| <b>Child Nutrition status</b>                |  |                                |                                       |
| ○ GAM (WHZ<-2 or oedema)                     |  | 16.9                           | N/A                                   |
| ○ Mean WHZ                                   |  | -1.04 ±1.49                    |                                       |
| ○ SAM (WHZ<-3 or oedema)                     |  |                                |                                       |
| ○ Oedema                                     |  |                                | 0.0                                   |
| ○ MUAC (<12.5 cm or oedema)                  |  |                                | 10.1 (6.5 –15.1)                      |
| ○ MUAC (<11.5 cm or oedema)                  |  |                                | 2.2 (0.7 –6.8)                        |
| ○ HIS Nutrition Trends                       |  | High (>20%) and stable         | High (>20%) and stable                |
| ○ TFPs/SFPs Admission trends                 |  |                                |                                       |
| Non-pregnant women with MUAC <18.5 cm        |  |                                | 2.7 (0.7-4.8)                         |
| Pregnant & Lactating women with MUAC<21.0 cm |  |                                | 19.5 (11.8-27.1)                      |
| Pregnant & Lactating women with MUAC<23.0 cm |  |                                | 52.3 (46.2-58.5)                      |
| ○ Crude Death rate/10,000/day                |  | 0.56 (0.27 –1.14)              | 0.27 (0.08-0.99)                      |
| ○ U5 Death rate/10,000/day                   |  | 1.34 (0.73 –2.44)              | 0.55 (0.10-2.84)                      |
| <b>OVERALL NUTRITION SITUATION</b>           |  | <i>Likely Critical</i>         | <i>Likely Critical</i>                |
|  |  |                                |                                       |
| ○ Disease Outbreaks:                         |  | No Outbreak                    | No outbreak of diseases,              |
| ○ Morbidity based on 2wk recall              |  | Overall Morbidity: 49.7%       | Overall Morbidity: 14.2               |
| ○ Immunization status/Vit. A                 |  | MeaslesVac: 0.2%<br>VitA: 0.4% | Measvac: 19.6<br>Vitamin A: 24.9      |
| <b>Public Health Indicators; Gender</b>      |  |                                |                                       |
| ○ HH accessing sanitation facilities         |  | -                              | -                                     |
| ○ Relation between GAM & child sex           |  | Statistically Insignificant    | Statistically Insignificant           |
| ○ Relation between GAM & sex of hh head      |  | Statistically Insignificant    | Statistically Insignificant           |
| <b>Food Security Phase</b>                   |  | Crisis                         | Crisis                                |
| <b>Overall Risk to Deterioration</b>         |  | <b>Uncertain</b>               | Likely to sustain                     |

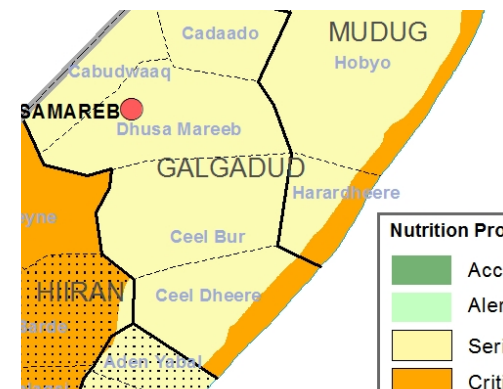
Nutrition Situation, August 2012



Nutrition Situation, January 2013



Nutrition Situation, Feb-Apr 2013 Projections



The nutrition situation has improved from *likely Critical* to likely **Serious** in the Cowpea belt and sustained **Serious** levels in Hawd and Addun Pastoral LZs. The nutrition situation among Guriel/Dusamareb IDPs is sustained in **Very Critical** levels.

**Nutrition Outlook, February-April; 2013:** The projected nutrition situation in February-April 2013

shows likely sustained **Serious** levels in Hawd, Addun and Central Agropastoral (Cowpea belt) livelihoods and a sustained Critical level in the Coastal deeh due to the impact of the current positive food security indicators (access to livestock and livestock products, as well as cereal crops in the cow pea belt).

# Key Driving Factors

- ***Aggravating factors***

- Limited milk access in Coastal areas
- High morbidity in all livelihoods – though no outbreak reported
- Inappropriate child feeding and care practices
- Low immunization and vitamin A supplementation status Poor access to sanitation facilities and safe water in rural LHZs
- Poor shelter and access to milk among the IDPs

- ***Mitigating factors***

- Limited humanitarian programmes in the region (health & feeding facilities, WASH)
- Limited health program coverage
- Improved milk access in Hawd and Addun pastoral livelihoods and in central Agropastoral livelihood
- Improved dietary diversity in most livelihoods
- Social support

# *Team Members*

*Abdikarim Duale*

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