



**Food Security and Nutrition  
Analysis Unit Somalia**

*Information for Better Livelihoods*



# *Post Deyr'11/12*

# Presentation

January 24th 2012

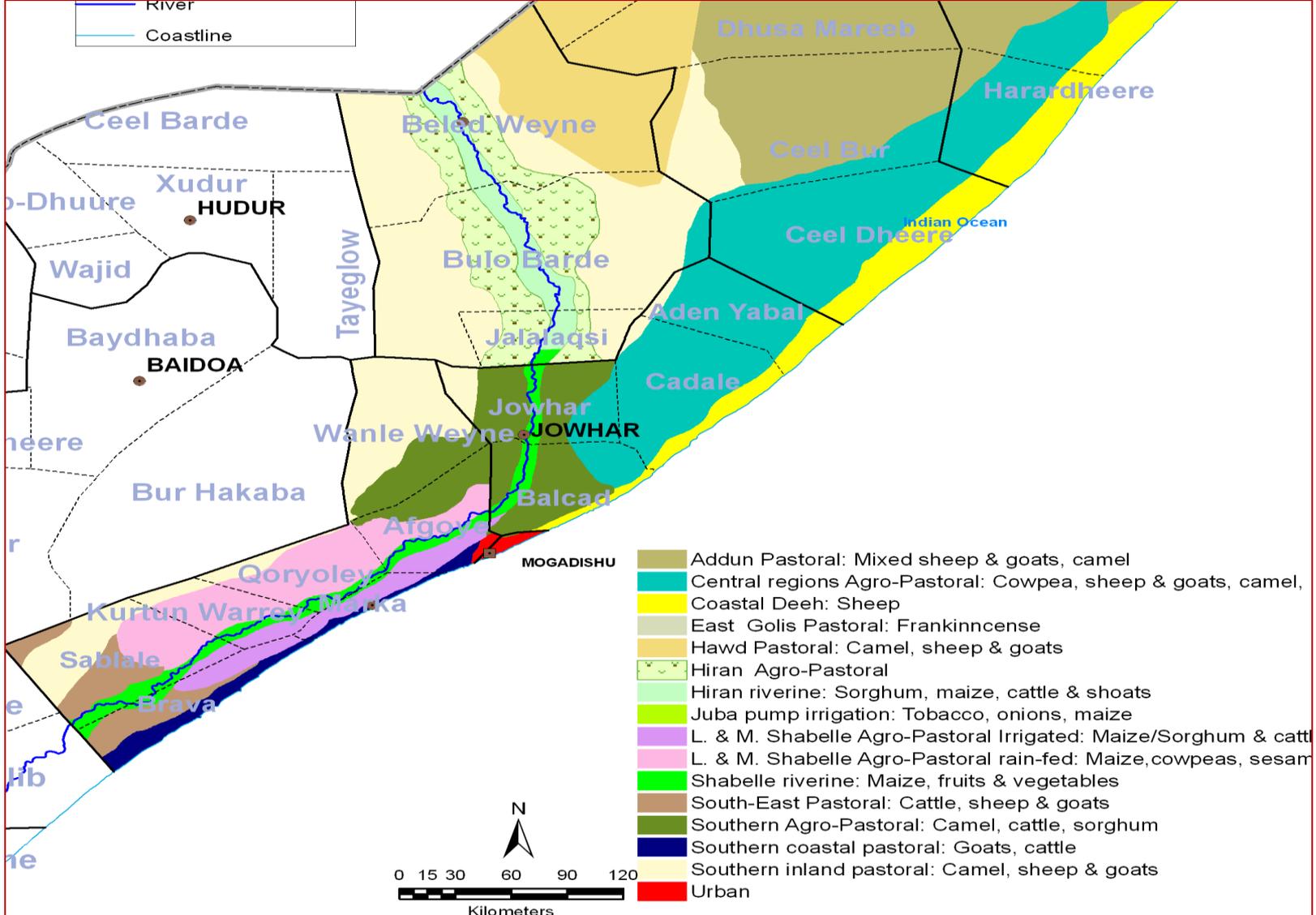


## Integrated Nutrition Situation Analysis

**South East Regions- Middle and Lower  
Shabelle, Hiran and Banadir**



# SE Regions Livelihood Zones



**Middle Shabelle Agropastoral Livelihood Zone, Summary of Findings**

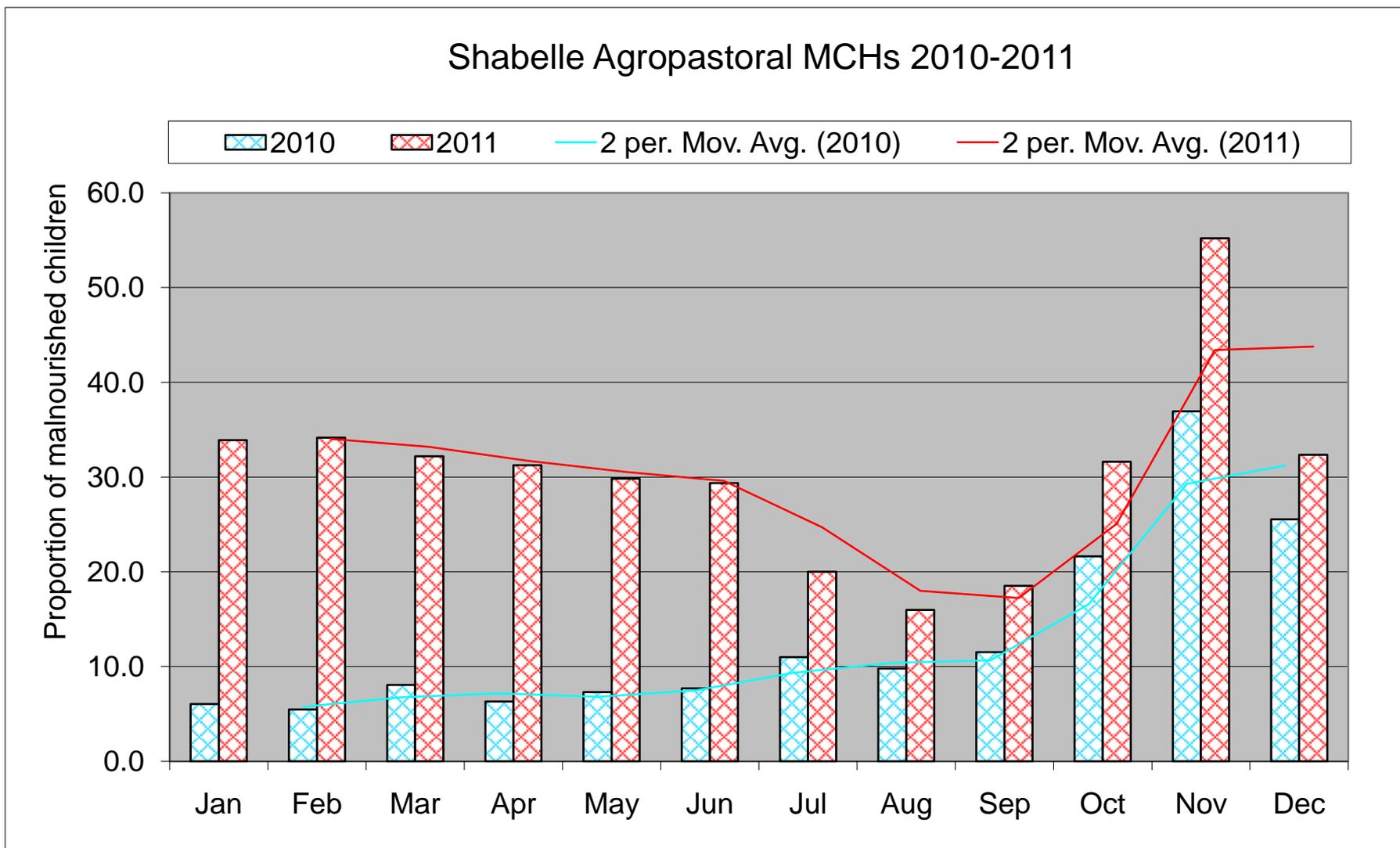
| Outcome indicators  | Middle Shabelle Agropastoral Livelihood Zone, Summary of Findings |  |   |
|---|---|--|---|
|   | Deyr' 2010/2011<br>December 2010                                  | Gu 2011 (N=590)<br>July 2011                   | Deyr 2011/2012<br>October 2011  |
| <b>Child Nutrition status</b>   |   |  |   |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  |   | 35.3 (24.9-47.30)                              | >30<br>Unchanged Acute Malnutrition rates<br>(Reported in this format due to data quality issues) |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  |   | 17.1 (10.3- 27.1)                              |   |
| ○ <i>Mean Weight-for height WHZ score</i>   |   | -1.38  |   |
| ○ <i>Oedema</i>   | 0   | 1.3  |   |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | >15 % (25% , R=3)   | 31.3 (25.8-37.5)                               |   |
| ○ <i>Severe MUAC (&lt;11.5 cm)</i>  | >3 (7.1%, R=3)  | 11.8 (8.2-16.5)                                |   |
| ○ <i>HIS Nutrition Trends</i>   | High (>20%) and increasing, showing higher trend than 2009        | High (>20%) and increasing, trend              |   |
| ○ <i>TFPs/SFPs Admission trends</i>   | N/A   |  | Decline in admissions reported from partners  |
| <i>Crude death Rate/10,000/day (90days)</i>   | N/A   | 2.28 (1.71-2.86)                               | >2.0  |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | N/A   | 6.84 (4.91-8.76)                               |   |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Hot Spot for Likely Critical</b>                               | <b>Very Critical</b>                           | <b>Likely Very Critical</b>   |
| <b>Child Morbidity, Immunization, IYCF</b>  |   |  |   |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Outbreaks of AWD, measles, whooping cough                         | Major outbreaks of measles and AWD in the area | Reported outbreaks of measles and AWD continue  |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | Insignificant<br>N/A  | Insignificant<br>N/A                           | N/A<br>N/A  |
| <b>Food Security Phase</b>  | <b>AFLC / Crisis</b>  | <b>Famine</b>                                  | <b>BFI / Stressed</b><br><b>AFLC/ Crisis</b> (Adan Yabal and Adale districts )                    |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Deteriorate</b>                                   | <b>Potential to Deteriorate</b>                | <b>Potential to Improve</b>   |

**Lower Shabelle Agropastoral Livelihood Zone, Summary of Findings**

| Outcome indicators  | Lower Shabelle Agropastoral Livelihood Zone, Summary of Findings   |  |  |
|---|--|--|--|
|   | Deyr' 2010/2011<br>December 2010                                   | Gu 2011 (N=799)<br>July 2011                   | Deyr 2011/2012                         |
| <b>Child Nutrition status</b>   |  |  |  |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  |  | 40.6 (34.6-46.8)                               | No survey due to lack of access        |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  |  | 20.9 (16.2-26.5)                               |  |
| ○ <i>Mean Weight-for height WHZ score</i>   |  | -1.53  |  |
| ○ <i>Oedema</i>   | 0.2  | 4.0  |  |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | > 15% (23.4%; R3)  | 37.8 (31.9-44.1)                               |  |
| ○ <i>Severe MUAC (&lt;11.5 cm)</i>  | > 3% (7.4%; R3)  | 12.2 (7.7-18.9)                                |  |
| ○ <i>HIS Nutrition Trends</i>   | High (>20%) & increasing trend (July-Dec10); higher than 09 trends | High (>30%) and increasing, trend              |  |
| ○ <i>TFPs/SFPs Admission trends</i>   | N/A  |  | Declining trend of admissions reported |
| <i>Crude death Rate/10,000/day (90days)</i>   | N/A  | 4.21 (2.89-5.53)                               | N/A                                    |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | N/A  | 12.48 (9.14-15.81)                             |  |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Hot spot for Likely Critical</b>                                | <b>Very Critical</b>                           | <b>Likely Very Critical</b>            |
| <b>Child Morbidity, Immunization, IYCF</b>  |  |  |  |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Outbreaks of AWD, measles, whooping cough                          | Major outbreaks of measles and AWD in the area | Outbreaks of measles and AWD continue  |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | Insignificant<br>N/A   | N/A  | N/A<br>N/A                             |
| <b>Food Security Phase</b><br><i>Proportion of hh consuming &lt;4 fd gps</i>                        | <b>AFLC/ Crisis</b>  | <b>Famine</b>                                  | <b>BFI/Stressed</b>                    |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Deteriorate</b>                                    | <b>Potential to Deteriorate</b>                | <b>Potential to improve</b>            |

# Malnutrition Trends at Health Facilities

## Shabelle Agropastoral MCHs 2010-2011



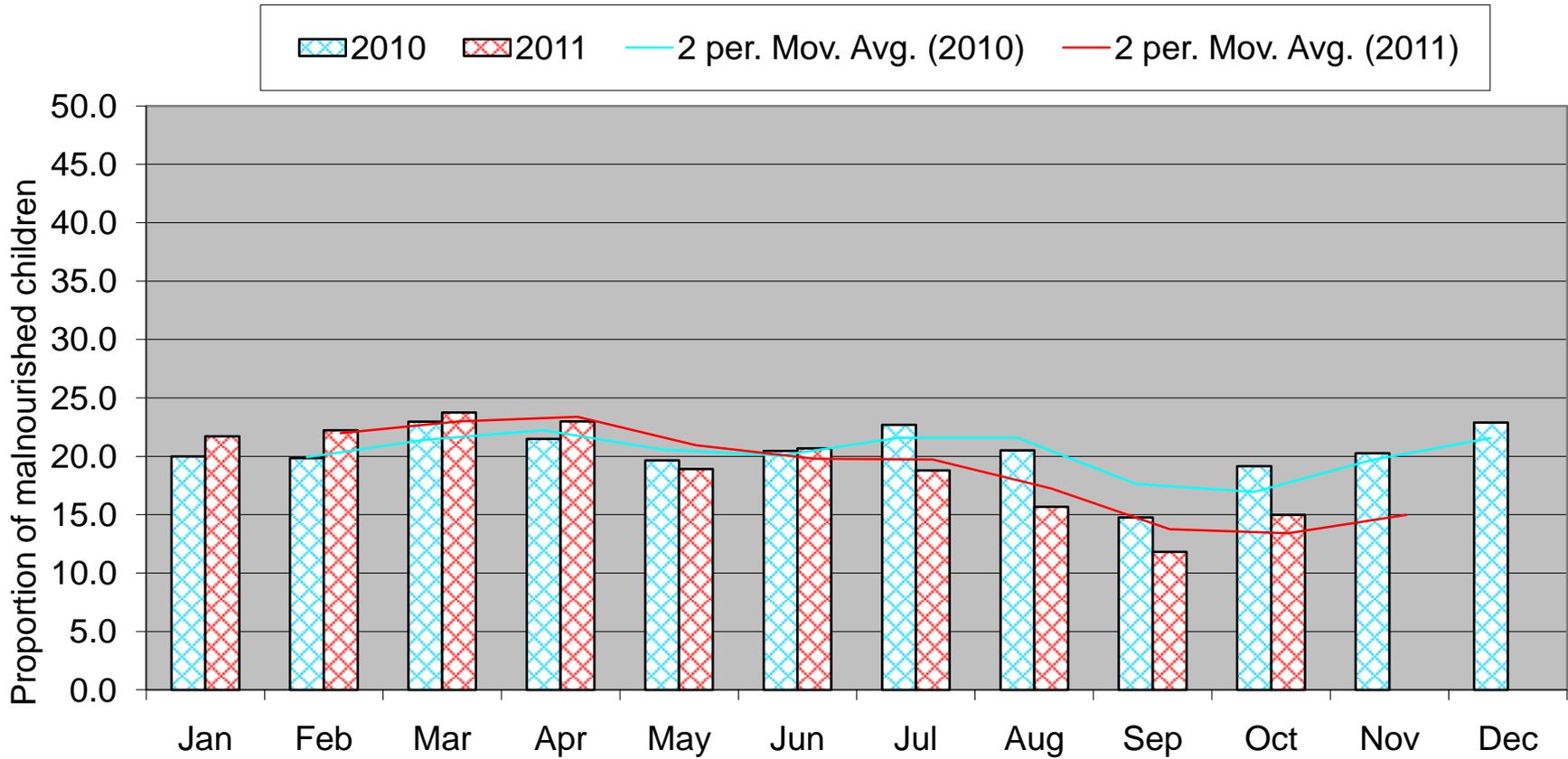
High (>30%) and increasing trend

| Outcome indicators  | Middle Shabelle Riverine Livelihood Zone, Summary of Findings |  |  |
|---|---|--|--|
|   | Deyr' 2010/2011<br>December 2010                              | Gu 2011 (N=746)<br>July 2011                   | Deyr 2011/2012<br>October 2011                       |
| <b>Child Nutrition status</b>   |   |  |  |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  |   | 19.6 (16.4-23.2)                               | ~20  |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  |   | 8.2 (5.7-11.6)                                 | <b>Unchanged Acute Malnutrition rates</b>            |
| ○ <i>Mean Weight-for height WHZ score</i>   |   | -0.63  | (Reported in this format due to data quality issues) |
| ○ <i>Oedema</i>   | 0   | 3.6  |  |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | >15% (23%, R=3)   | 22.6 (17.1-29.2)                               |  |
| ○ <i>Severe MUAC (&lt;11.5 cm)</i>  | >3 % (7.4%, R=3)  | 8.4 (4.9-13.9)                                 |  |
| ○ <i>HIS Nutrition Trends</i>   | High (>20%) and stable, showing higher trend than 2009        | High (>20%) and increasing, trend              | High (>10%) and declining trend                      |
| ○ <i>TFPs/SFPs Admission trends</i>   | N/A   |  | Decline in admissions reported by partners           |
| <i>Crude death Rate/10,000/day (90days)</i>   | N/A   | 1.71 (1.1-3.2)                                 | <2.0   |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | N/A   | 5.19 (2.96-7.41)                               |  |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Hotspot for likely Critical</b>                            | <b>Very Critical</b>                           | <b>Likely Very Critical</b>                          |
| <b>Child Morbidity, Immunization, IYCF</b>  |   |  |  |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Outbreaks of AWD, measles, whooping cough                     | Major outbreaks of measles and AWD in the area | Reported outbreaks of measles and AWD continue       |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | Insignificant   | Insignificant                                  | N/A  |
| <b>Food Security Phase</b>  | <b>AFLC/ Crisis</b>   | <b>Humanitarian Emergency</b>                  | <b>BFI/ Stressed</b>                                 |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Deteriorate</b>                               | <b>Potential to Deteriorate</b>                | <b>Potential to Improve</b>                          |

| Outcome indicators  | Lower Shabelle Riverine Livelihood Zone, Summary of Findings        |  |                                       |
|---|---|--|---------------------------------------|
|   | Deyr' 2010/2011<br>December 2010                                    | Gu 2011 (N=804)<br>July 2011                   | Deyr 2011/2012                        |
| <b>Child Nutrition status</b>   |   |  |                                       |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  |   | 28.7 (24.4-33.5)                               | No survey due to lack of access       |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  |   | 14.2 (11.6-17.3)                               |                                       |
| ○ <i>Mean weight-for-height</i>   |   | -1.22  |                                       |
| ○ <i>Oedema</i>   | 0.3   | 3.6  |                                       |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | > 15% (27.7%; R3)   | 36.0 (30.3-42.1)                               |                                       |
| ○ <i>Severe MUAC (&lt;11.5cm)</i>   | > 3% (8.7%; R3)   | 14.4 (11.3-18.2)                               |                                       |
| ○ <i>HIS Nutrition Trends</i>   | High (>15%) & stable trend July-Dec' 10); consistent with 09 trends | High (>30%) and increasing, trend              |                                       |
| ○ <i>TFPs/SFPs Admission trends</i>   |   | N/A  | Decline of admissions reported        |
| <i>Crude death Rate/10,000/day (90days)</i>   |   | 5.93 (4.28-7.57)                               | N/A                                   |
| <i>Under 5 death Rate/10,000/day (90days)</i>   |   | 18.64 (13.05-24.22)                            |                                       |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Hot spot for likely Critical</b>                                 | <b>Very Critical</b>                           | <b>Likely Very Critical</b>           |
| <b>Child Morbidity, Immunization, IYCF</b>  |   |  |                                       |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Outbreaks of AWD, measles, whooping cough                           | Major outbreaks of measles and AWD in the area | Outbreaks of measles and AWD continue |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | Insignificant<br>N/A  | Insignificant<br>N/A                           | Insignificant<br>N/A                  |
| <b>Food Security Phase</b><br><i>Proportion of hh consuming &lt;4 fd gps</i>                        | <b>AFLC</b><br>N/A  | <b>HE</b><br>N/A                               | <b>BFI</b>                            |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Deteriorate</b>                                     | <b>Potential to Deteriorate</b>                | <b>Potential to Improve</b>           |

# Malnutrition Trends at Health Facilities

Shabelle Riverine MCHs 2009-2010



High (>10%) and declining trend of malnourished children

| Mogadishu Town Livelihood Zone, Summary of Findings |  |                             |   |   |
|---|--|-----------------------------|---|---|
| Outcome indicators                                  | Deyr' 2010/2011<br>December 2010   | April 2011<br>(N=902)       | October<br>(N=645)                                      | December 2011<br>(N= 630)   |
| <b>Child Nutrition status</b>                       |  |                             |   |   |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>                  | -  | 15.2 (10.9-20.7)            | Unchanged 15-20%  | 21.1 (17.1-25.8)  |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>                  | -  | 1.7 (0.9-3.1)               | 6.4 (4.5-9.0)   | 5.6 (3.5-8.6)   |
| ○ <i>Mean weight-for-height</i>                     | -  | -0.77                       | -0.86   | -1.01   |
| ○ <i>Oedema</i>                                     | -  | 0.1                         | 0.3   | 0.2   |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>               | > 15%  | 12.2 (8.3-16.1)             | 13.3 (10.7-16.5)  | 13.4 (10.7-16.7)  |
| ○ <i>Severe MUAC (&lt;11.5cm)</i>                   | > 3%   | 2.3 (1.1-3.6)               | 2.3 (1.4-3.7)   | 3.5 (2.3-5.5)   |
| ○ <i>HIS Nutrition Trends</i>                       | High (>20%) and fluctuating trends in last 6 months -Medina, Waberi, Hamar weyne, Hamar Jabjab. (July-Dec'10). | High (>15%) and stable      | -   | High (>20%) and stable, peaks in August and slightly in October                                   |
| ○ <i>TFPs/SFPs Admission trends</i>                 | High and increasing numbers of admissions (in charge) –ACF (Hodan/Forlanini). Jul – Dec ' 2010)                | High and increasing numbers | -   | High number of admission in charge (>994 children) in ACF managed centers in Hodan, and Forlanini |
| <i>Crude death Rate/10,000/day (90days)</i>         | -  | 1.8(1.38-2.37)              | 2.81 (1.97-3.64)  | 1.33(0.88-2.02)   |
| <i>Under 5 death Rate/10,000/day (90days)</i>       | -  | 2.2(1.41-3.48)              | 7.49 (4.83-10.2)  | 4.12 (2.62-6.43)  |
| Non Pregnant women with MUAC < 18.5                 | -  | -                           | 0   | 0   |
| Pregnant and Lactating women with MUAC <21 .0       | -  | -                           | 2.3 0.0-4.7)  | 2.3 (0.4-4.1)   |
| Pregnant and Lactating women with MUAC <23 .0       | -  | -                           | 6.7 (3.2-10.1)  | 12.5 (8.2-16.8)   |
| <b>OVERALL NUTRITION SITUATION</b>                  | <b>Likely Very Critical</b>  | <b>Critical</b>             | <b>Critical</b>   | <b>Likely Very Critical</b>   |
| <b>Child Morbidity, Immunization, IYCF</b>          | -  |                             |   |   |
| ○ <i>Disease Outbreaks:</i>                         | Out break of AWD, cholera  | No outbreaks                | Measles and AWD   | Measles and AWD   |
| ○ <i>Morbidity based on 2wk recall</i>              |  |                             | Overall Morbidity – 47.3 (41.0-53.5)                    | Overall Morbidity – 49.2 (43.8-56.1)  |
| ○ <i>Immunization status/Vit. A</i>                 | -  | -                           | Measles Vac- 62.4 and Vit A -62.6                       | -   |
| ○ <i>Relation between GAM &amp; child sex</i>       | -  | Insignificant               | Insignificant   | Insignificant   |
| ○ <i>Relation between GAM &amp; sex of hh head</i>  | -  | N/A                         | N/A   | N/A   |
| <b>Food Security Phase</b>                          | -  | -                           | -   | -   |
| <i>Proportion of hh consuming &lt;4 fd gps</i>      |  |                             |   |   |
| <b>Overall Risk to Deterioration</b>                | <b>Stable</b>  | <b>Stable</b>               | <b>Likely to improve due to humanitarian assistance</b> | <b>Likely to improve due to humanitarian assistance</b>   |

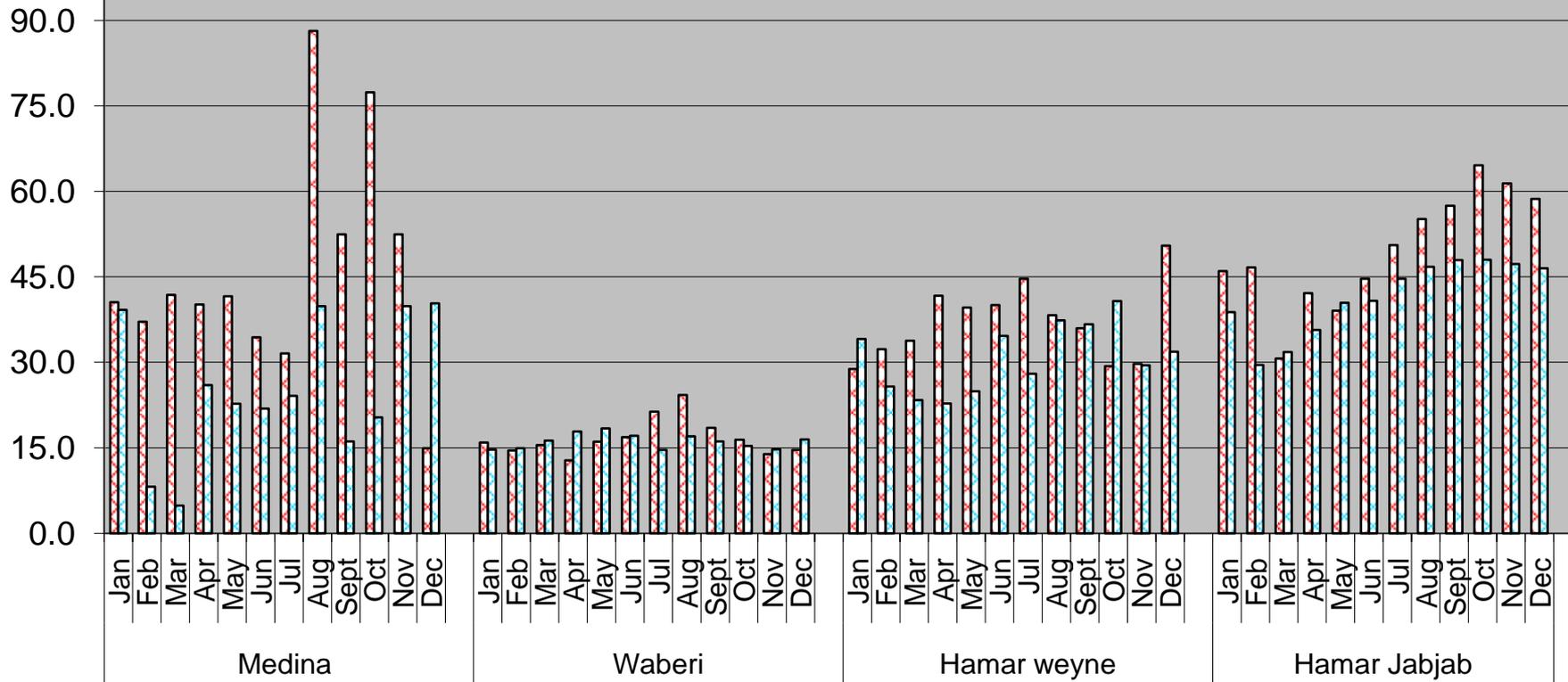
| Outcome indicators  | Mogadishu IDP Livelihood Zone, Summary of Findings |  |   |   |
|---|--|--|---|---|
|   | July (N=870)<br>December 2010                      | August (N=544)                                       | October (N=870)   | December (N=808)  |
| <b>Child Nutrition status</b>   |  |  |   |   |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  | 39.4 (32.4-46.9)                                   | 45.6 (40.5-50.8)                                     | ~30.0%  | 20.5 (16.6-25.2)  |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  | 15.3 (11.6-19.8)                                   | 23.0 (19.2-27.2)                                     | ~10%  | 5.6 (3.8-8.1)   |
| ○ <i>Mean weight-for-height</i>   | -1.61  | -1.90  | -1.33   | -1.04   |
| ○ <i>Oedema</i>   | 1.0  | 0.4  | 0   | 0   |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | 25.4 (21.5-29.7)                                   | 36.8 (32.4-41.4)                                     | 19.4 (16.3-22.8)  | 14.6 (12.0-17.1)  |
| ○ <i>Severe MUAC (&lt;11.5cm)</i>   | 7.5 (5.6-9.8)                                      | 12.1 (9.3-15.6)                                      | 3.9 (2.6-5.7)   | 3.9 (2.7-5.6)   |
| ○ <i>HIS Nutrition Trends</i>   | -  | High (30%) and increasing trend                      | -   | High (>20%) and stable, peaks in August and slightly in October                                   |
| ○ <i>TFPs/SFPs Admission trends</i>   | -  | High and increasing admission trend                  | -   | High and increasing number of admission in charge (>994 children) ACF centers - Hodan,/ Forlanini |
| <i>Crude death Rate/10,000/day (90days)</i>   | 4.29 (3.22-14.09)                                  | 5.68 (4.48-6.88)                                     | 1.78 (1.19-2.36)  | 2.06 (1.60-2.66)  |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | 14.09 (10.6-17.5)                                  | 15.43 (11.4-19.5)                                    | 5.0 (3.0-7.0)   | 5.46 (3.95-7.51)  |
| ○ Non Pregnant women with MUAC < 18.5   | -  | 0.0  | 1.4 (0.0-3.2)   | 0.5 (0.0-1.6)   |
| ○ Pregnant and Lactating women with MUAC <21  | -  | 5.3 (1.3-9.2)  | 5.0 (2.5-7.9)   | 5.1 (2.8-7.5)   |
| ○ Pregnant and Lactating women with MUAC <23  | -  | 12.2 (6.7-17.7)                                      | 13.5 (8.9-18.1)   | 38.2 (26.9- 49.4)   |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Very Critical</b>                               | <b>Very Critical</b>                                 | <b>Very Critical</b>                                    | <b>Likely Very Critical</b>   |
| <b>Child Morbidity, Immunization, IYCF</b>  | -  |  |   |   |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | -  | Measles and AWD Overall Morbidity - 61.0 (55.8-66.1) | Measles and AWD Overall Morbidity - 50.9 (45.4-56.4)    | Measles and AWD continue Overall Morbidity - 45.7 (40.1-51.2)                                     |
| ○ <i>Immunization status/Vit. A</i>   | -  | Measles Vac 28.0 and Vit A 26.2                      | Measles Vac 60.1 and Vit A 59.9                         | -   |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | -  | Insignificant<br>N/A                                 | Insignificant<br>N/A                                    | Insignificant<br>N/A  |
| <b>Food Security Phase</b><br><i>Proportion of hh consuming &lt;4 fd gps</i>                        | -  | <b>Famine</b>  | <b>Famine</b>   | <b>Humanitarian Emergency</b>   |
| <b>Overall Risk to Deterioration</b>  | <b>Uncertain</b>                                   | <b>Uncertain</b>                                     | <b>Likely to improve due to humanitarian assistance</b> | <b>Likely to improve due to humanitarian assistance</b>   |

# Malnutrition Trends at Mogadishu Health Facilities

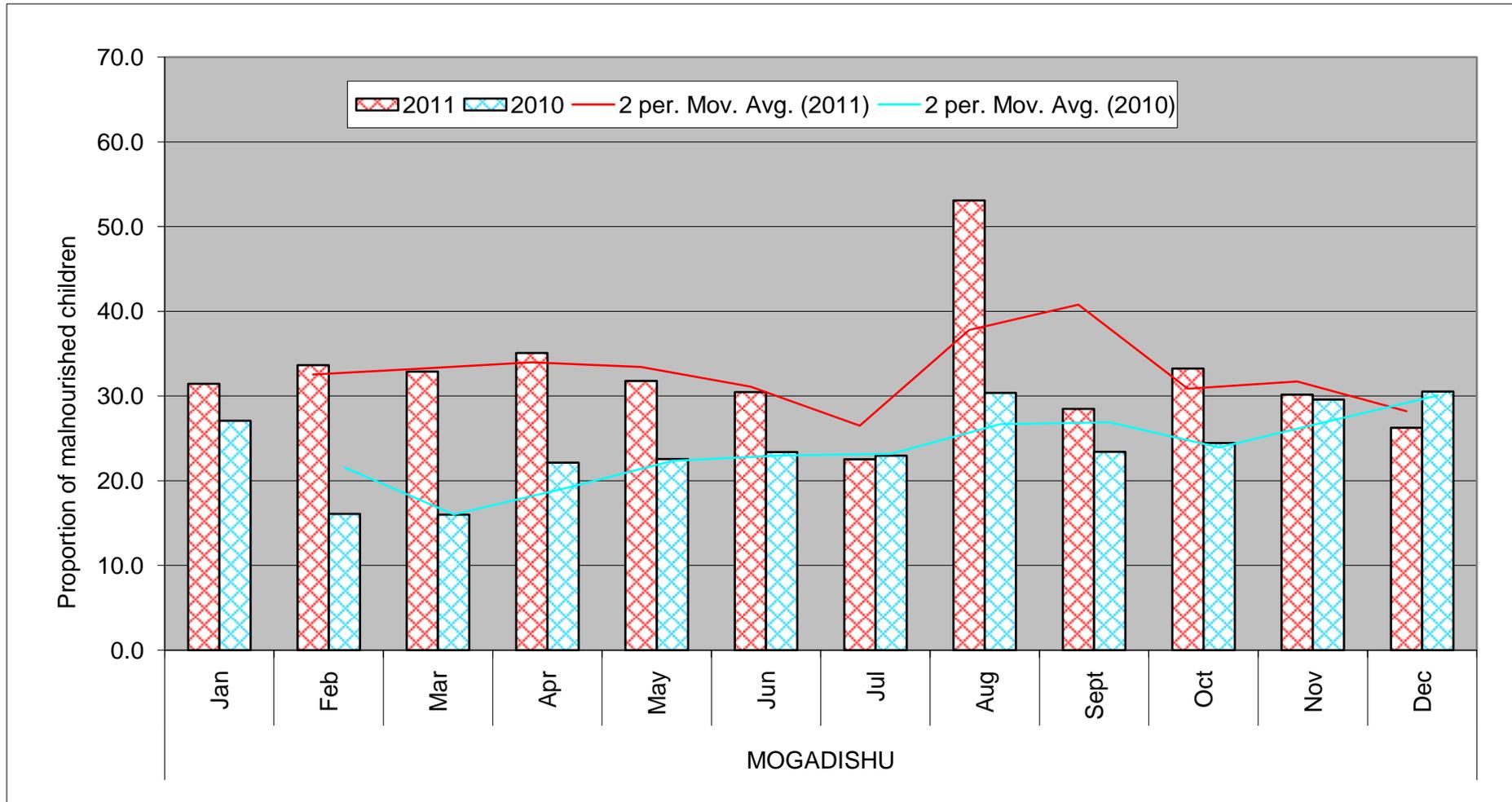
Mogadishu MCHs 2010-2011



Proportion of malnourished children



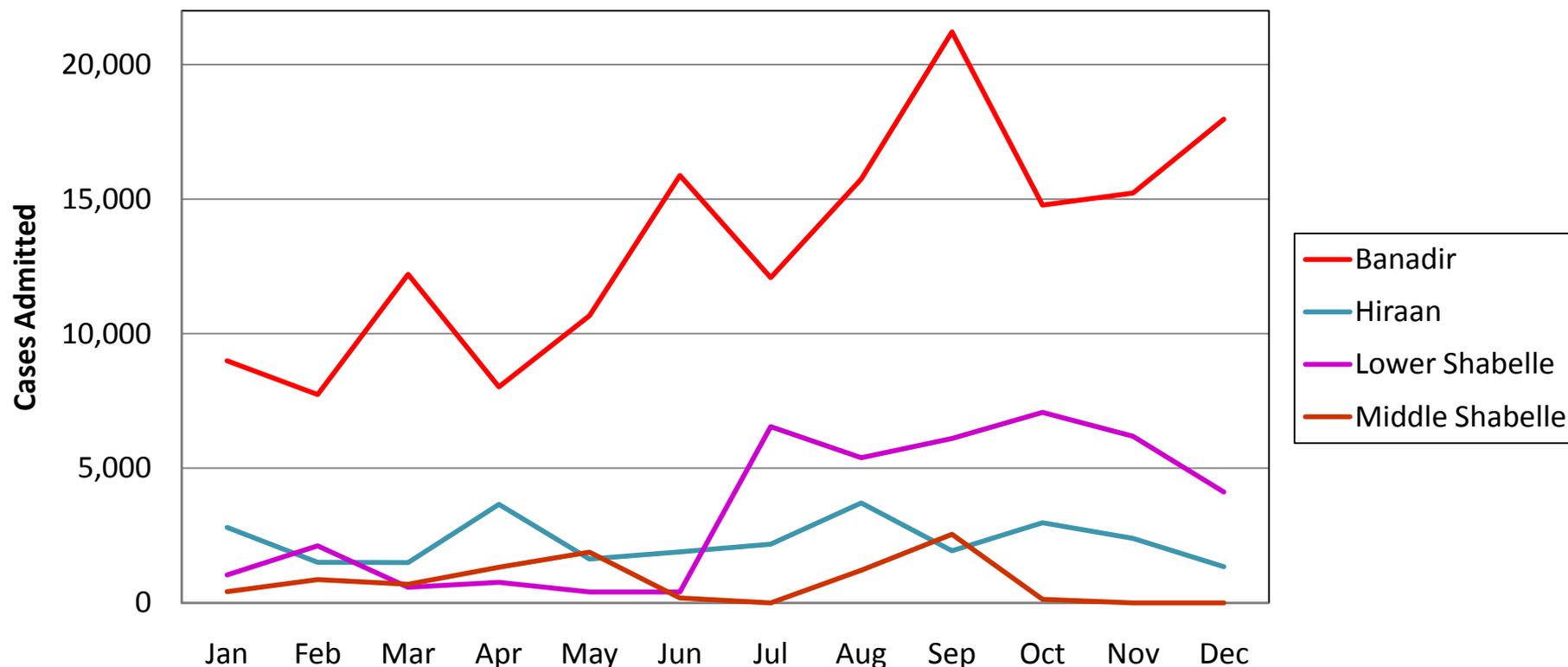
# Malnutrition Trends at Mogadishu MCH Centers (Combined Data)



High (>20%) and stable trend

# Admission Trends of Malnourished Children into Nutrition Programs

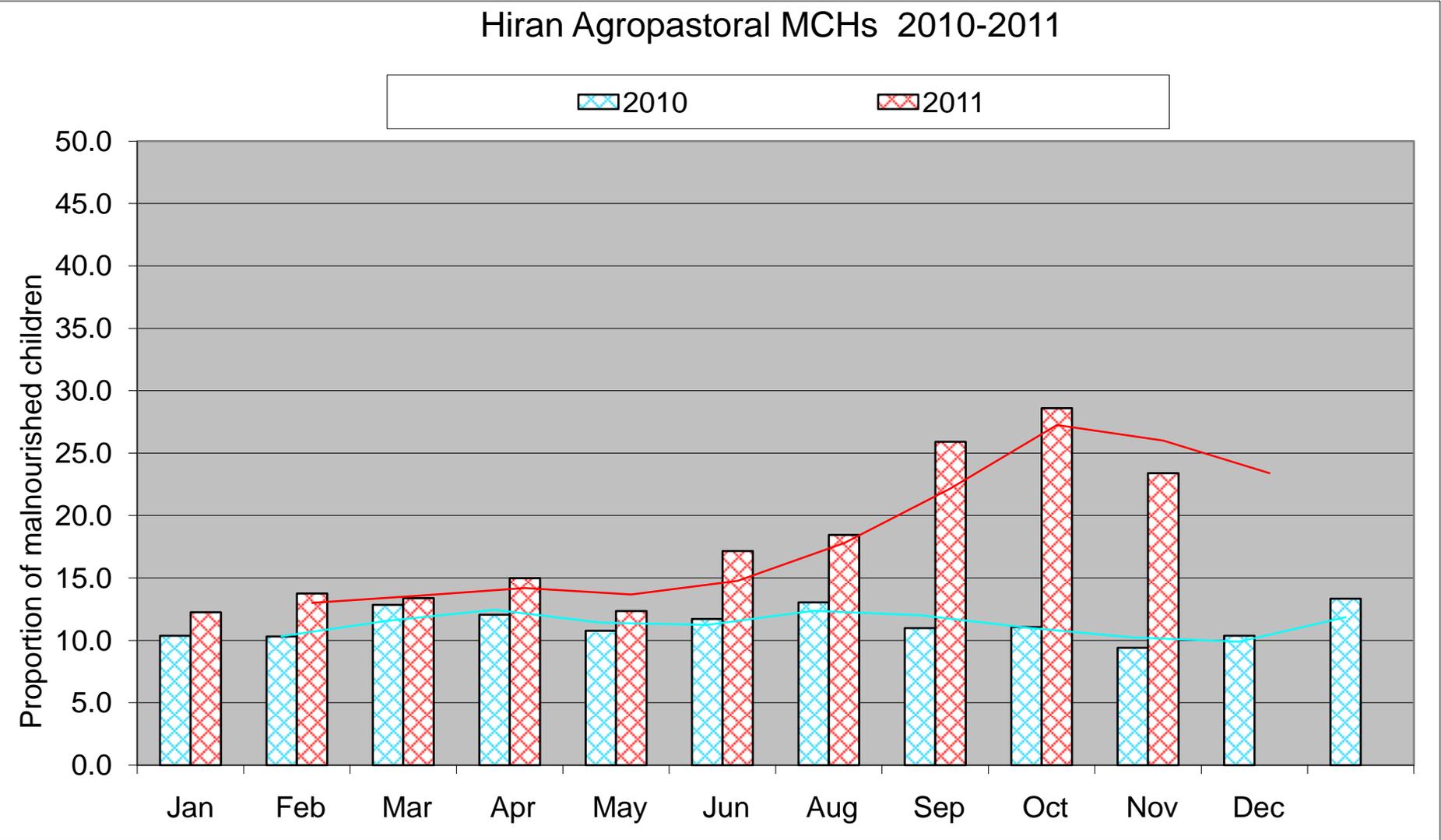
Total monthly Admissions Jan- Dec 2011:  
Banadir, Lower and Middle Shabelle, and Hiraan Regions  
(Source : Nutrition Cluster Coordination)



High (over 7000 monthly) and increasing number of admissions

| Outcome indicators  | Hiran Agropastoral Livelihood Zone, Summary of Findings        |  |  |
|---|--|--|--|
|   | Deyr' 2010/2011<br>December 2010                               | Gu 2011 (N=535)<br>July 2011                   | Deyr 2011/2012   |
| <b>Child Nutrition status</b>   | -  |  | No survey due to lack of access  |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  | -  | 43.2 (37.7-48.9)                               |  |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  | -  | 16.3 (13.4 (19.6)                              |  |
| ○ <i>Oedema</i>   | 0.1  | 0.2  |  |
| ○ <i>Mean Weight-for Height Z (WHZ scores)</i>  |  | -1.66  |  |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | 17.1   | 24.2 (19.9-29.1)                               |  |
| ○ <i>Severe MUAC (&lt;11.5cm)</i>   | 2.9  | 5.8 (3.7-9.1)                                  |  |
| ○ <i>HIS Nutrition Trends</i>   | High (>10%) & stable trend (July - Dece'10)                    | High (>10%) & increasing trend (July -Dece'11) | High (>20%) and increasing trend, with a decrease in the month of Oct 2011 |
| ○ <i>TFPs/SFPs Admission trends</i>   | -  | High and increasing admission trend            | -  |
| <i>Crude death Rate/10,000/day (90days)</i>   | N/A  | 1.5 (0.9-2.1)                                  | -  |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | N/A  | 4.24 (2.83-5.65)                               |  |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Likely Very Critical</b>                                    | <b>Very Critical</b>                           | <b>Likely Very Critical</b>  |
| <b>Child Morbidity, Immunization, IYCF</b>  |  |  |  |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Outbreak –whooping cough in the three districts in Nov Dec '10 | Outbreaks of measles and AWD                   | Outbreaks of measles   |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | -  | Insignificant                                  | -  |
| <b>Food Security Phase</b><br><i>Proportion of hh consuming &lt;4 fd gps</i>                        | <b>Humanitarian Emergency</b>                                  | <b>Humanitarian Emergency</b>                  | <b>Humanitarian Emergency</b>  |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Improve</b>                                    | <b>Potential to Improve</b>                    | <b>Potential to Improve</b>  |

# Malnutrition Trends at Health Facilities



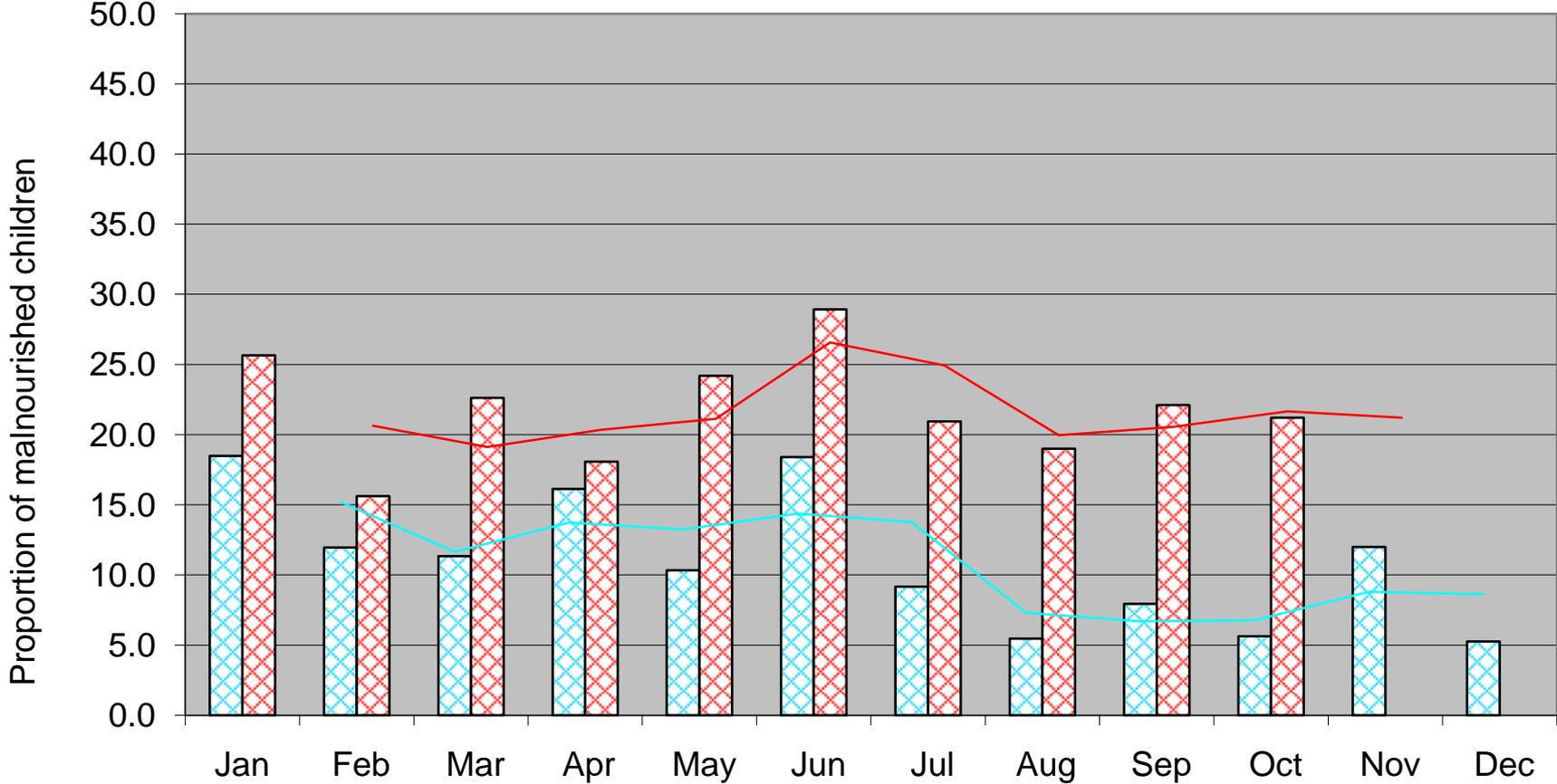
High (>20%) and increasing trend

| Outcome indicators  | Hiran Pastoral Livelihood Zone, Summary of Findings   |  |                                 |
|---|---|--|---------------------------------|
|   | Deyr' 2010/2011<br>December 2010                      | Gu 2011 (N=444)<br>July 2011             | Deyr 2011/2012                  |
| <b>Child Nutrition status</b>   |   |  |                                 |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  | -   | 27.3 (24.2-30.6)                         | No survey due to lack of access |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  | -   | 12.8 (10.5-15.6)                         |                                 |
| ○ <i>Oedema</i>   | -   | 0.2                                      |                                 |
| ○ <i>Mean Weight-for Height Z (WHZ scores)</i>  | -   | -1.45                                    |                                 |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | 14.7  | 22.6 (19.3-26.2)                         |                                 |
| ○ <i>Severe MUAC (&lt;11.5cm)</i>   | 2.5   | 6.0 (4.5-7.8)                            |                                 |
| ○ <i>HIS Nutrition Trends</i>   | Low(<10%) and stable due to closure of HF's in Dec'10 | High (>20%) and fluctuating trend        | High (>20%) and stable trend    |
| ○ <i>TFPs/SFPs Admission trends</i>   | -   | High and increasing number of admissions | -                               |
| <i>Crude death Rate/10,000/day (90days)</i>   | N/A   | 1.53 (1.07-1.98)                         | -                               |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | N/A   | 3.67 (2.38-4.97)                         |                                 |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Likely Critical</b>                                | <b>Very Critical</b>                     | <b>Likely Very Critical</b>     |
| <b>Child Morbidity, Immunization, IYCF</b>  |   |  |                                 |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Out breaks –whooping cough in B/burti (Nov – Dec)     | Outbreaks of measles and AWD             | Outbreaks of measles            |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | -   | Insignificant                            | -                               |
| <b>Food Security Phase</b><br><i>Proportion of hh consuming &lt;4 fd gps</i>                        | <b>Humanitarian Emergency</b>                         | <b>Humanitarian Emergency</b>            | <b>AFLC/ Crisis</b>             |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Improve</b>                           | <b>Potential to Improve</b>              | <b>Potential to Improve</b>     |

# Malnutrition Trends at Health Facilities

Hiran Pastoral MCHs 2010-2011

2010 2011 2 per. Mov. Avg. (2010) 2 per. Mov. Avg. (2011)

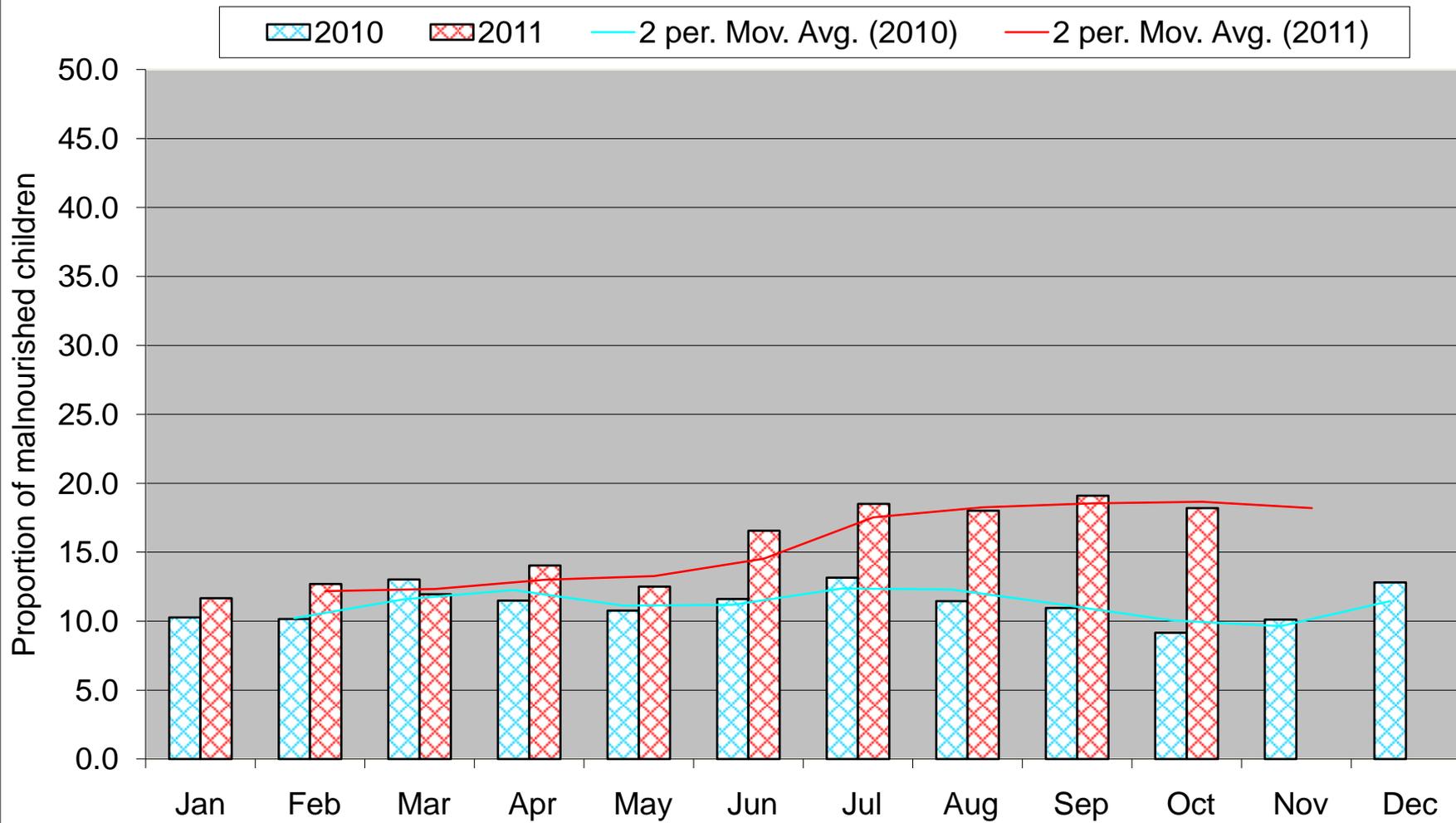


High (>20%) and stable trend

| Outcome indicators  | Hiran Riverine Livelihood Zone, Summary of Findings                         |  |                                 |
|---|---|--|---------------------------------|
|   | Deyr' 2010/2011<br>December 2010  | Gu 2011 (N=570)<br>July 2011   | Deyr 2011/2012                  |
| <b>Child Nutrition status</b>   | -   |  |                                 |
| ○ <i>GAM (WHZ&lt;-2 or oedema)</i>  | -   | 20.7 (18.4-23.2)   | No survey due to lack of access |
| ○ <i>SAM (WHZ&lt;-3 or oedema)</i>  | -   | 9.1 (7.2-11.5)   |                                 |
| ○ <i>Oedema</i>   | 0   | 0.2  |                                 |
| ○ <i>Mean Weight-for Height Z (WHZ scores)</i>  |   | -1.06  |                                 |
| ○ <i>MUAC (&lt;12.5 cm or oedema)</i>   | 17.7  | 21.0 (18.5-23.8)   |                                 |
| ○ <i>Severe MUAC (&lt;11.5cm)</i>   | 3.5   | 5.5 (4.2-7.2)  |                                 |
| ○ <i>HIS Nutrition Trends</i>   | High (>10%) but declining trends in the last 3-4months trend (July - Dece10 | High (>10%) but increasing trends in the last 2 months June and July |                                 |
| ○ <i>TFPs/SFPs Admission trends</i>   | -   | Increasing number of admissions                                      | N/A                             |
| <i>Crude death Rate/10,000/day (90days)</i>   | N/A   | 1.37(1.04-1.71)  | -                               |
| <i>Under 5 death Rate/10,000/day (90days)</i>   | N/A   | 4.13 (2.95-5.31)   |                                 |
| <b>OVERALL NUTRITION SITUATION</b>  | <b>Likely Very Critical</b>   | <b>Very Critical</b>   | <b>Likely Very Critical</b>     |
| <b>Child Morbidity, Immunization, IYCF</b>  |   |  |                                 |
| ○ <i>Disease Outbreaks:</i><br>○ <i>Morbidity based on 2wk recall</i>                               | Outbreak –whooping cough in the B/Burti districts in Nov –Dec ‘10           | Outbreaks of measles and AWD   | Outbreaks of measles            |
| ○ <i>Relation between GAM &amp; child sex</i><br>○ <i>Relation between GAM &amp; sex of hh head</i> | -   | Insignificant  | -                               |
| <b>Food Security Phase</b><br><i>Proportion of hh consuming &lt;4 fd gps</i>                        | <b>Humanitarian Emergency</b>   | <b>Humanitarian Emergency</b>  | <b>BFI/Stressed</b>             |
| <b>Overall Risk to Deterioration</b>  | <b>Potential to Improve</b>   | <b>Potential to Deteriorate</b>                                      | <b>Potential to Improve</b>     |

# Malnutrition Trends at Health Facilities

## Hiran Riverine MCHs 2010-2011



High (>15%) and stable trend





# Driving Factors

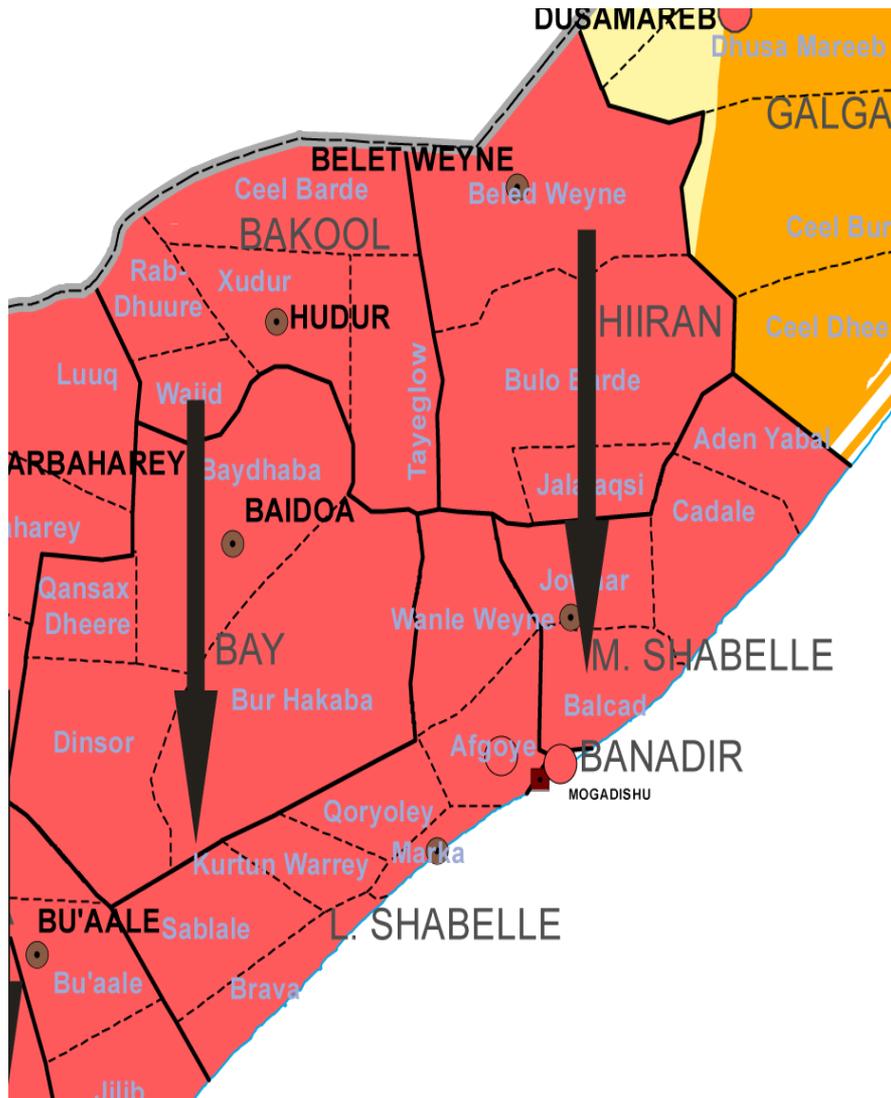
- *Aggravating factors*

- Frequent disease outbreaks and high morbidity
- Reduced access to humanitarian interventions specifically, feeding and health programmes, mainly in the Shabelles and Hiran regions
- Reduced household food access persists, but may improve with good harvests, milk availability is still low
- Inappropriate child feeding and care practices
- Poor access to sanitation facilities and safe water in rural LHZs
- Civil insecurity all regions remain the epicenter of civil strife

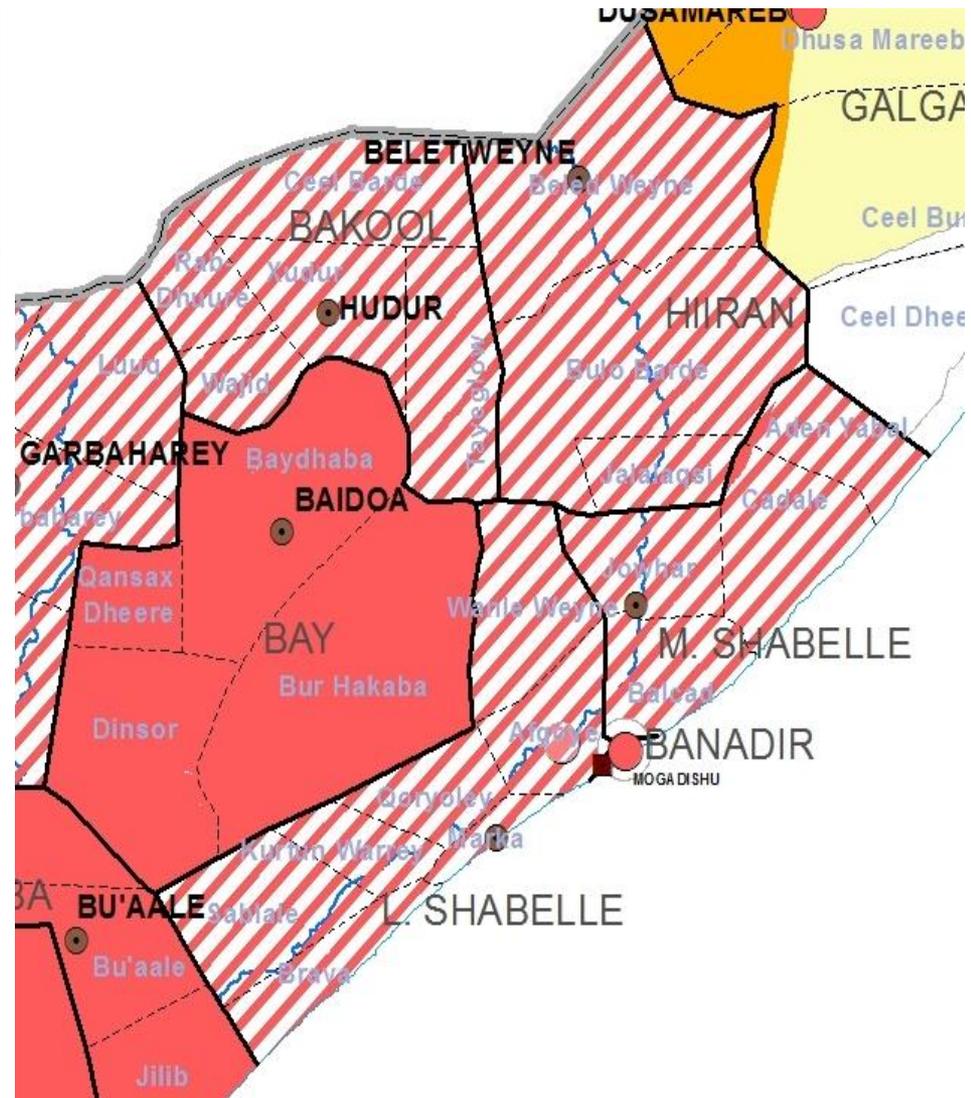
- *Mitigating factors*

- Increased humanitarian programmes in Banadir region and parts of Hiran (health, feeding, WASH)
- Good Deyr season- increased production (crop and livestock) – improved household food access and income
- Control/ reduction of disease outbreaks

# Somalia Estimated Nutrition Situation July/August 2011



# Somalia Estimated Nutrition Situation January 2012



# The End

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