

Post Deyr 2016

NorthEast/Central Regions Nutrition Situation

19th January 2017



Technical Partners



FSNAU Funding Agencies



Main Livelihood Groups

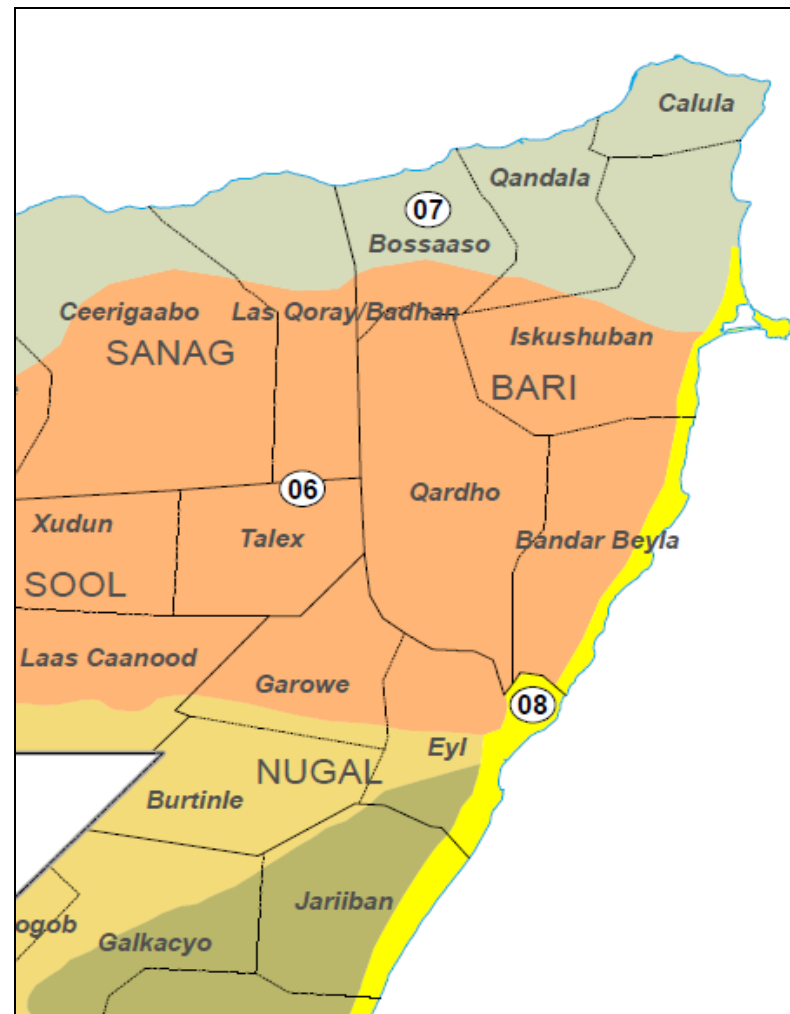
Sources of Food and Income

Pastoral Livelihood Groups:

Main livelihood zones in Puntland are:
Hawd, Northern Inland pastoral (NIP of NE),
Addun, East Golis and Coastal Deeh

Main Sources of Food and Income

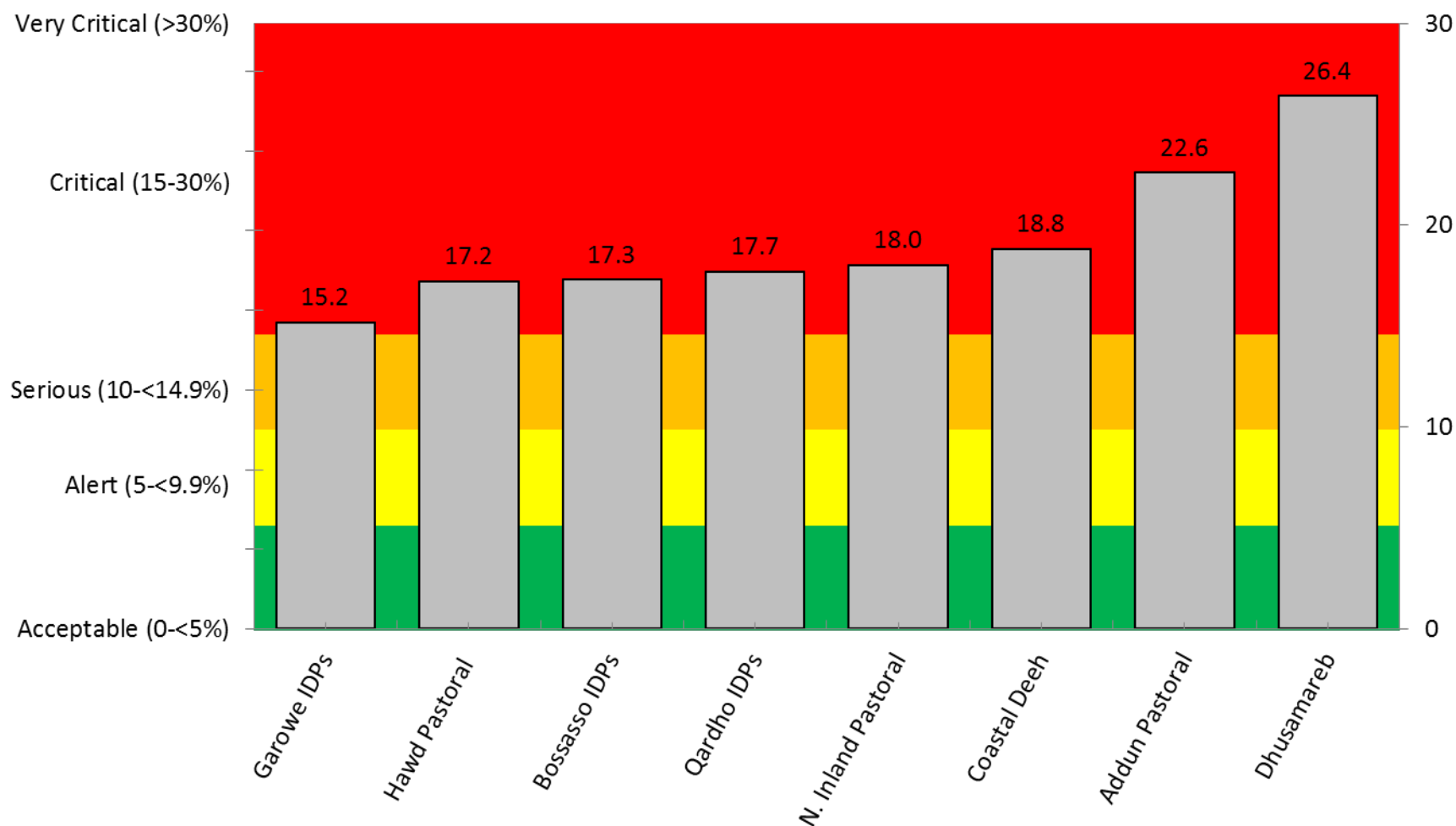
- Primary sources of income for most of the livelihood zones are sales of livestock and livestock products.
- Fishing and frankincense for parts of Coastal *Deeh* & East Golis
- Primary source of food is purchase
- Primary livelihood assets are camel and sheep/goat



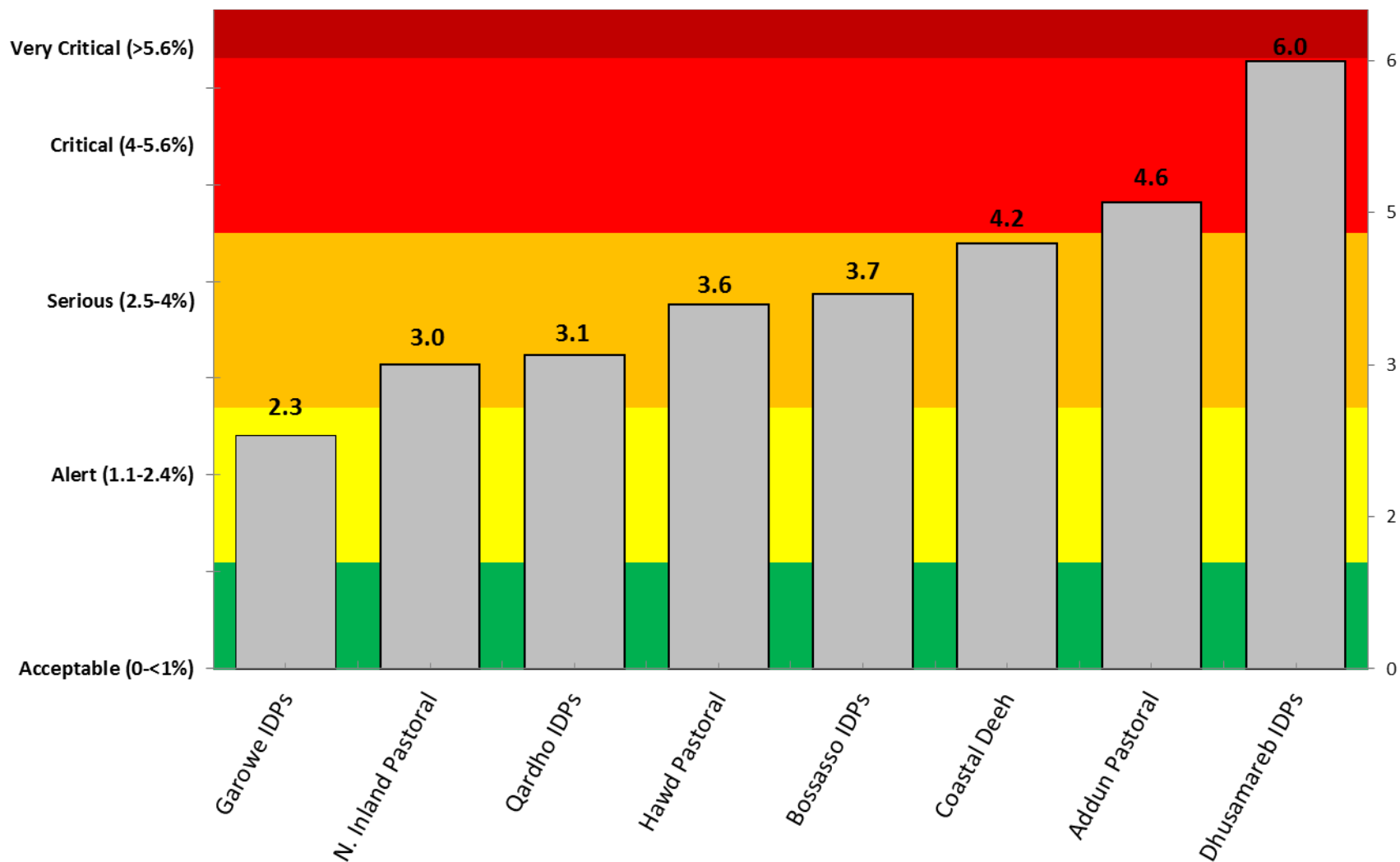
Survey Details

Livelihood	Type of Survey	Cluster	HH	Children	Children	
					Boys	Girls
Coastal Deeh	Comprehensive	28	479	738	371	367
Hawd Pastoral	Comprehensive	27	473	639	334	305
Addun Pastoral	Comprehensive	27	427	592	296	296
NIP	Comprehensive	32	505	593	295	298
Bossaso IDPs	Comprehensive	28	486	712	347	365
Qardho IDPs	Comprehensive	Exhaustive	312	646	312	334
Garowe IDPs	Comprehensive	27	401	838	407	431
Dhusamareb IDPs	Comprehensive	Exhaustive	214	265	130	135
Total Number		169	3,297	5,023	2,492	2,531

GAM prevalence among the NE and Central livelihood zone

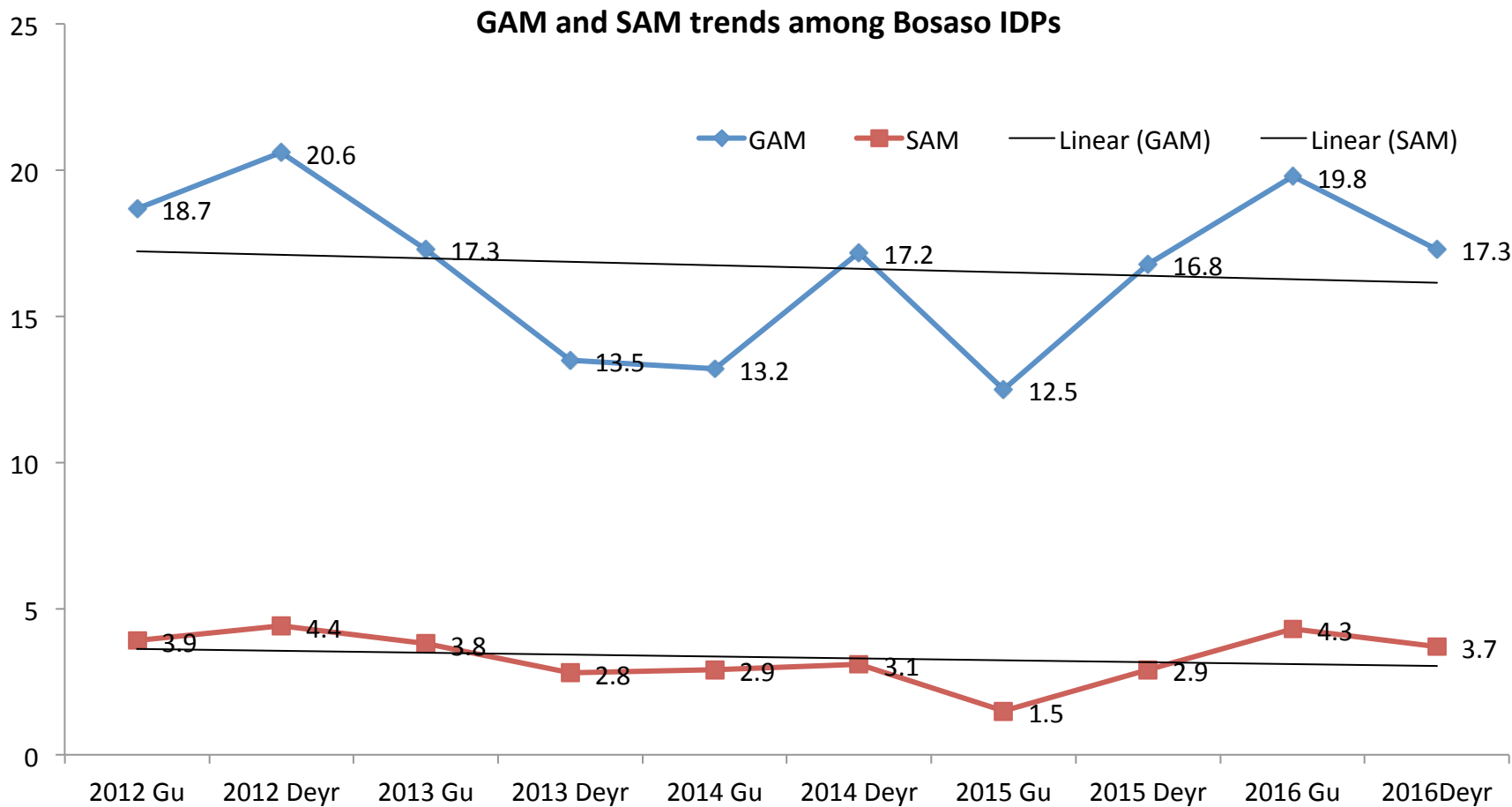


SAM prevalence among the NE and Central livelihood zone



INDICATOR	Deyr 2015 (N=727)	Gu 2016 (N=738)	Deyr 2016 (N=712)
Plausibility	7%	1%	12%
GAM (WHZ<-2 or oedema - WHO/ UNICEF	16.8 (14.3 – 19.7)	19.8(16.5-23.5)	17.3 (13.7-21.5)
SAM (WHZ<-3 or oedema - FSNAU	2.9 (1.9 – 4.4)	4.3(3.0-6.1)	3.7 (2.5- 5.4)
Oedema	0.0	0.0	0.0
Mean Weight-for Height Z (WHZ scores)	-1.00±1.03	-1.06±1.12	-0.95±1.09
DEFF WHZ<-2	1.00	1.31	1.79
MUAC (<12.5 cm or oedema) - FSNAU	10.1 (7.9 – 12.8)	6.0(4.3-8.3)	8.1 (5.3-10.9)
Severe MUAC (<11.5cm) - FSNAU	1.6 (0.9 – 2.8)	1.2(0.6-2.5)	2.5 (1.4- 3.8)
Stunting (HAZ-2) - WHO/UNICEF	16.3 (12.6 – 20.8)	21.5(15.6-29.0)	17.5 (12.6-23.9)
Under weight (WAZ-2 - WHO/UNICEF	18.9 (16.3 – 21.9)	26.7 (21.4-32.7)	19.2 (15.3-23.8)
Crude death Rate	0.26 (0.12 – 0.57)	0.21(0.07-0.56)	0.12 (0.04 – 0.38)
Under 5 death Rate	0.27(0.07 – 1.10)	0.42(0.09-1.88)	0.27 (0.06 -1.13)
NUTRITION SITUATION	Serious	Critical	Critical
Risk/Underlying Factors			
Morbidity	32.0%	34.1%	19.4%
Vitamin A	82.2%	90.1%	94.9%
Measles	78.9%	84.7%	86.4%
FCS		4% (poor to borderline)	22% (poor to borderline)
HHS			34% (Severe to moderate hunger)
CSI	39.1%	27.7%	23%

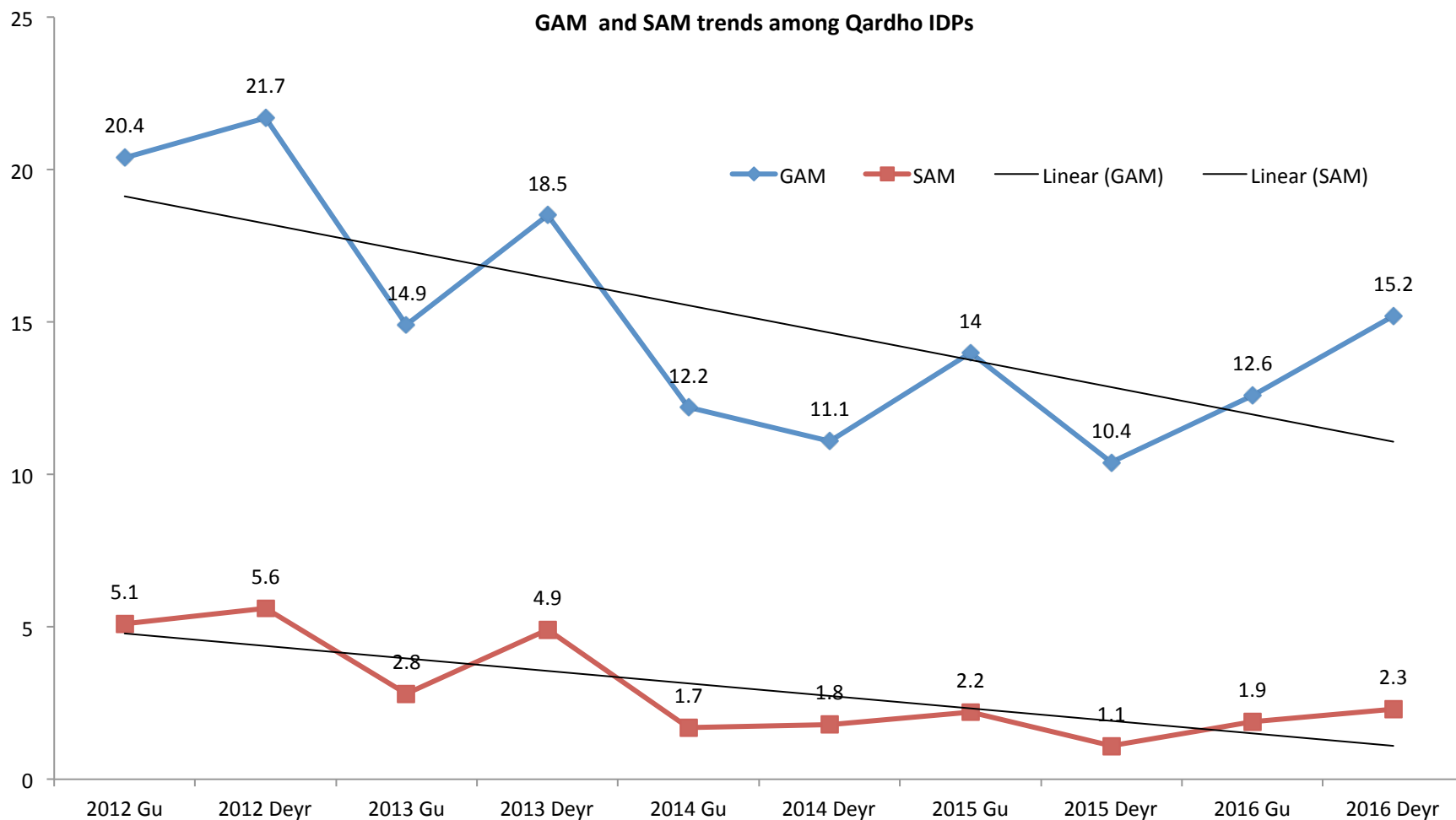
GAM and SAM trends among Bossaso IDPs



Nutrition Situation in Qardho IDPs

INDICATORS	Deyr 2015/16 (N=655)	Gu'2016 (N=546)	Deyr'2016/17 (N=646)
Plausibility	5%	7%	12%
GAM (WHZ<-2 or oedema - WHO/UNICEF)	10.4%	12.6%	15.2%
SAM (WHZ<-3 or oedema - FSNAU)	1.1%	1.9%	2.3%
Mean Weight-for Height Z (WHZ scores)	-0.79±1.15	-0.95±0.97	--1.06±0.88
DEFF WHZ<-2	1.00	1.00	1.00
Oedema	0%	0%	0%
MUAC (<12.5 cm or oedema) - FSNAU	8.2%	6.5%	10.7%
Severe MUAC (<11.5cm) - FSNAU	1.1%	0.2%	0.6%
Stunting (HAZ-2) - WHO/UNICEF	10.6%	8.3%	7.2%
Under weight (WAZ-2 - WHO/UNICEF)	9.5%	10.7%	11.0%
Crude death Rate	0.10%	0.35%	0.29%
Under 5 death Rate	0.16%	0.73%	0.47%
NUTRITION SITUATION- WHO/UNICEF	Serious	Serious	Critical
Risk/Underlying Factors			
Morbidity	46.1%	50.7%	39.3%
Vit A	25.4%	78.4%	62.0%
Measles	42.7%	79.9%	87.9%
FCS		52% (poor to borderline)	65% (poor to borderline)
HHS			42% (severe to moderate hunger)
CSI		23.5%	24%
Food Security and Nutrition Analysis	Serious	Serious	Serious

GAM and SAM trends among Gardho IDPs

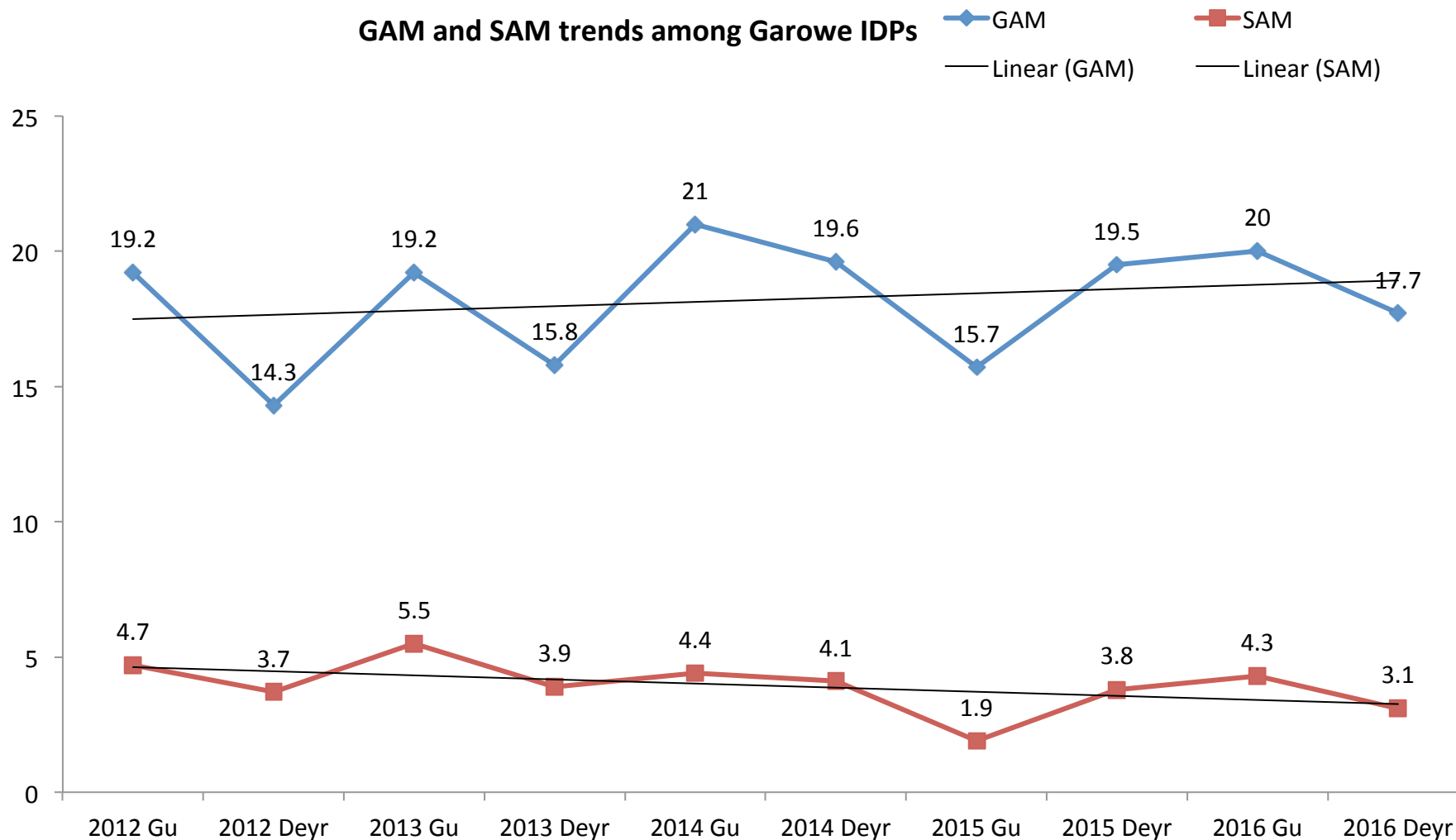


INDICATOR	Deyr 2015 (n=841)	Gu 2016 (n=570)	Deyr 2016 (n=838)
Plausibility	11%	10%	14%
GAM (WHZ<-2 or oedema - WHO/UNICEF)	19.5 (16.5 – 22.9)	20.0(17.0-23.5)	17.7 (14.2-21.8)
SAM (WHZ<-3 or oedema - FSNAU)	3.8(2.6 – 5.6)	3.2(2.0-4.9)	3.1 (1.8- 5.2)
Oedema	0%	0.2%	0%
Mean Weight-for Height Z (WHZ scores)	-1.00±1.15	-0.93±1.15	-0.94±1.13
DEFF- WHZ <-2	1.29	1.00	1.99
MUAC (<12.5 cm or oedema) - FSNAU	10.7(7.6 – 14.8)	11.1(8.8-14.0)	10.5 (7.8-13.1)
Severe MUAC (<11.5cm) - FSNAU	2.9 (1.8 – 4.6)	1.1(0.5-2.3)	2.0 (1.2- 3.2)
Stunting (HAZ-2) - WHO/UNICEF	27.5 (22.6 – 32.9)	14.7(12.0-17.9)	12.8 (9.6-16.8)
Under weight (WAZ-2 - WHO/UNICEF)	24.0 (18.7 – 30.3)	16.4(13.6-19.7)	17.2 (12.9-22.6)
Crude death Rate	0.24 (0.08 – 0.72)	0.40(0.20-0.80)	0.16 (0.06 – 0.43)
Under 5 death Rate	0.49 (0.19 – 1.26)	0.49(0.16-1.52)	0.36 (0.11 -1.11)
NUTRITION SITUATION-I WHO/UNICEF	Critical	Critical	Critical
Risk/Underlying Factors			
Morbidity	41.3%	46.0%	34.1%
Vit A	89.0%	86.8%	94.7%
Measles	87.5%	82.2%	95.8%
FCS		4% (poor to borderline)	9% (poor to borderline)
HHS			39% (severe to moderate hunger)

GAM and SAM trends among Garowe IDPs

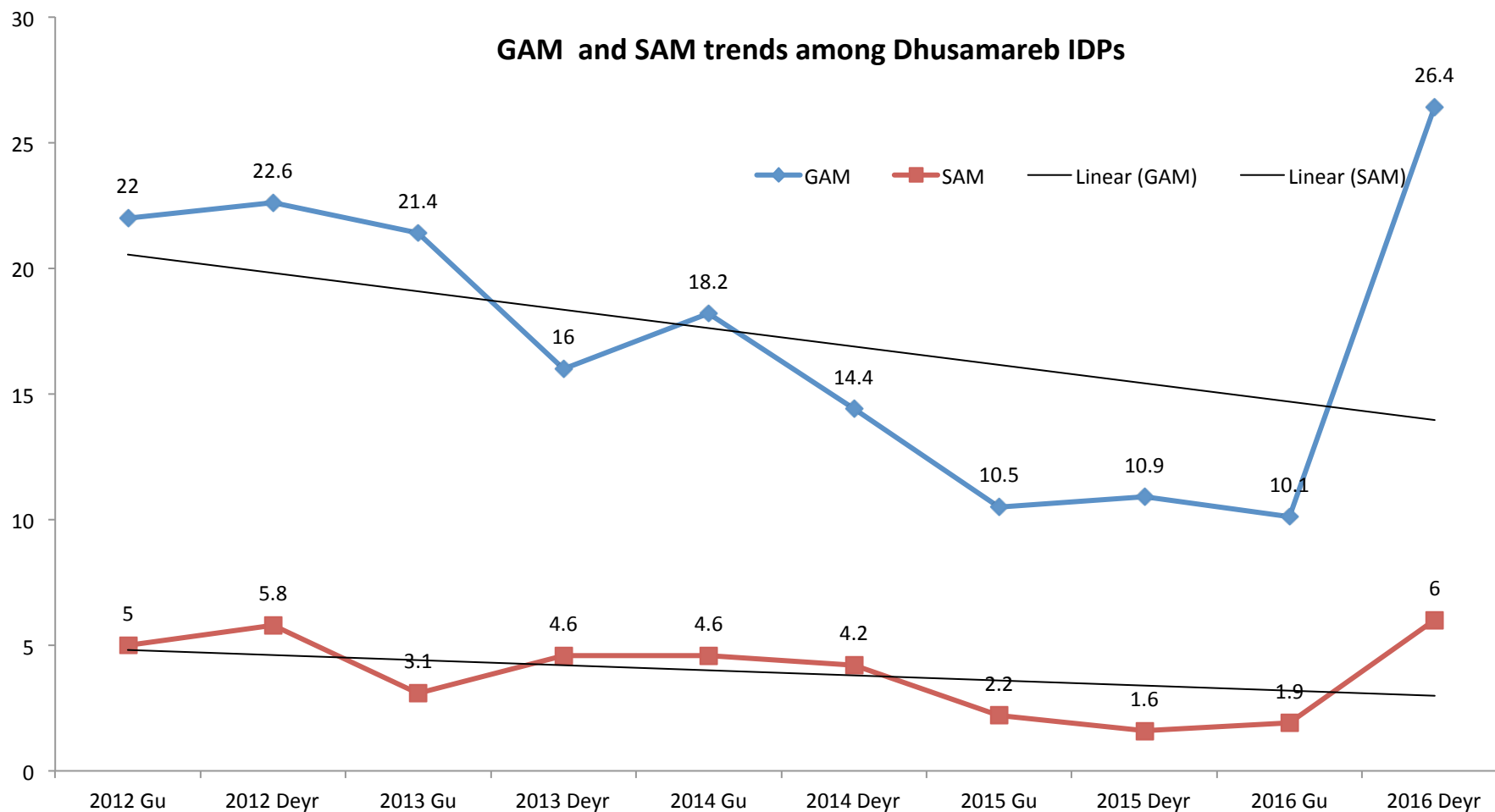


GAM and SAM trends among Garowe IDPs



Indicator	Deyr' 2015 (N=414)	Gu' 2016 (N=382)	Deyr' 2016 (N=265)
Plausibility Report	7%	11%	9%
GAM (WHZ<-2 or oedema WHO/UNICEF	10.9%	10.1%	26.4%
SAM (WHZ<-3 or oedema- FSNAU	1.6%	1.9%	6.0%
Oedema - FSNAU	0.0%	0.0%	0.0%
DEFF- WHZ <-2	1.00	1.00	1.00
MUAC (<12.5 cm or oedema) - FSNAU	11.7%	7.3%	19.8%
Severe MUAC (<11.5cm) - FSNAU	3.6%	0.5%	4.2%
Stunting (HAZ-2)-WHO/UNICEF	14.1%	2.1%	19.6%
Under weight (WAZ-2- WHO/UNICEF	11.7%	4.5%	25.7%
Crude death Rate - Sphere	0.08	0.08	0.00
Under 5 death Rate - Sphere	0.5	0.27	0.0
NUTRITION SITUATION	Serious	Serious	Critical
Risk/Underlying Factors			
Morbidity	28.5%	38.2%	22.8%
Vit A	17.5%	15.5%	24.5%
Measles	36.5%	20.0%	20.4%
FCS		6% (poor to borderline)	34% (poor to borderline)
HHS			5% (severe to moderate hunger)
CSI			100%

GAM and SAM trends among Dhusamareb IDPs

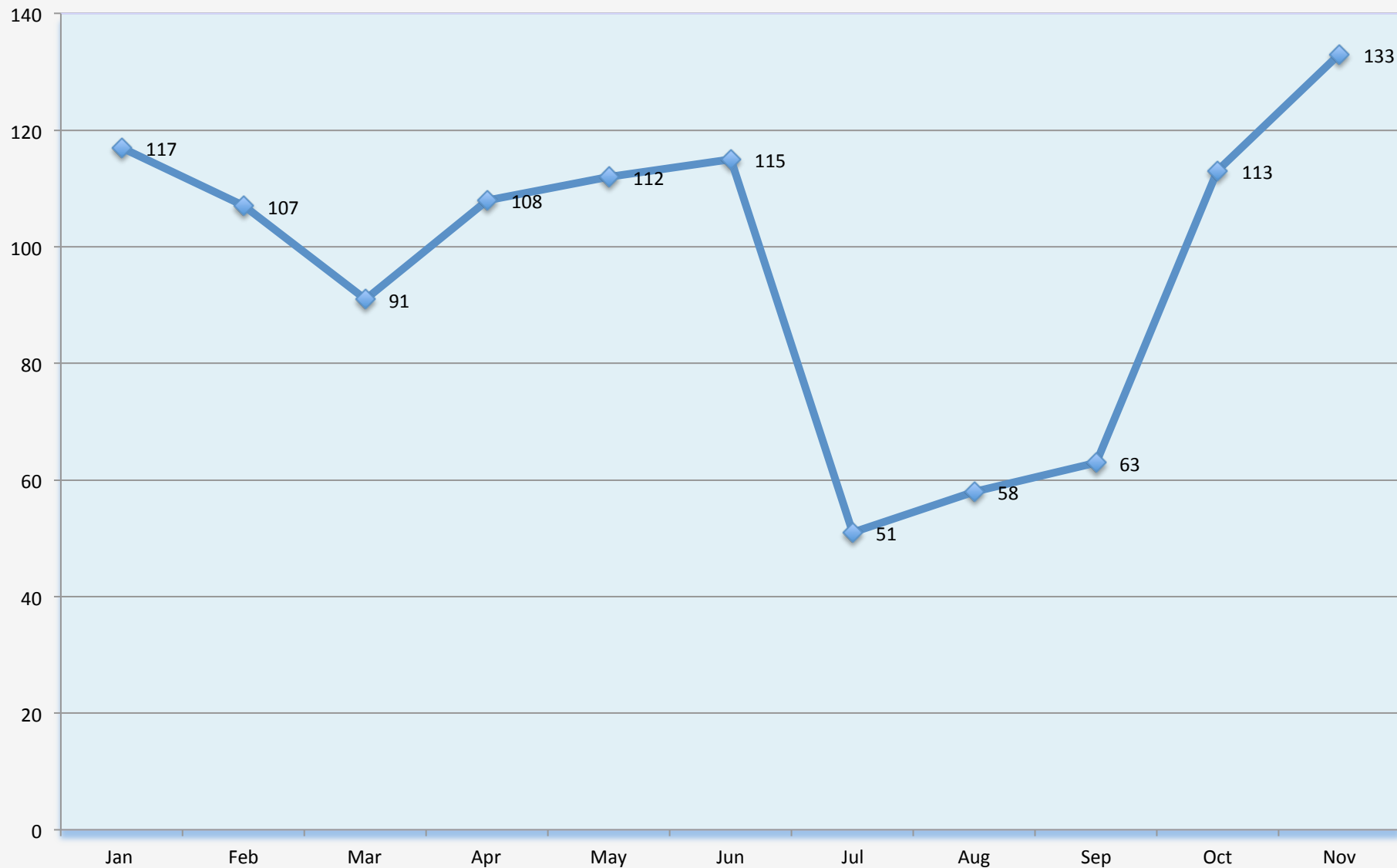


INDICATORS	Deyr, 2015 (n=768)	Gu '16 (n=685)	Deyr '2016 (n=738)
Plausibility	17%	8%	11%
GAM (WHZ<-2 or oedema - WHO/UNICEF	11.2(8.2-15.0)	13.0 (9.9-17.0)	18.8 (15.0-23.4)
SAM (WHZ<-3 or oedema - FSNAU	1.4(0.8-2.5)	1.0 (0.4- 2.7)	4.2 (2.8- 6.2)
Mean Weight-for Height Z (WHZ scores)	-0.64±1.14	-0.65±1.13	-0.94±1.14
DEFF WHZ<-2	2.09	1.80	2.02
Oedema	0.0	0	0
MUAC (<12.5 cm or oedema) - FSNAU	1.0(0.4-2.5)	1.4 (0.7- 2.9)	10.8 (7.2-14.2)
Severe MUAC (<11.5cm) - FSNAU	0.0(0.0 – 0.0)	0.1 (0.0- 1.1)	1.2 (0.6- 2.2)
Stunting (HAZ-2) - WHO/UNICEF	6.1(4.2-8.6)	4.1 (2.4- 6.9)	4.1 (2.4- 6.9)
Under weight (WAZ-2 - WHO/UNICEF	4.9(3.3-7.0)	3.9 (2.3- 6.5)	6.8 (4.5-10.2)
Malnutrition Trends (HIS) - FSNAU	High (>15% and increasing)	High(>15%) and Increasing	High(>15%) and Increasing
Crude death Rate	0.12(0.04-0.38)	0.15 (0.05-0.48)	0.13 (0.03-0.59)
Under 5 death Rate	0.13(0.02-1.04)	0.45 (0.14-1.43)	0.27 (0.03-2.10)
NUTRITION SITUATION- WHO/UNICEF	Serious	Serious	Critical
Risk/Underlying Factors			
Morbidity	24.7	33.7	39.6
Vit A Sup.	69.8	90.5	63.8
Measles Vac.	81.1	86.3	86.3
FCS		10.0	21
HHS		4	17
CSI		5	11
Food Security Phase - IPC	Crisis	Stressed	Crisis

Nutrition Situation in Hawd pastoral

INDICATORS	Deyr'2015 (n=790)	Gu'2016 (n=596)	Deyr'2016 (n=639)
Plausibility	13%	9%	16%
GAM (WHZ<-2 or oedema - WHO/ UNICEF	12.0(8.4-17.0)	16.3 (13.1-20.1)	17.2 (13.5-21.7)
SAM (WHZ<-3 or oedema - FSNAU	2.8(1.8-4.4)	3.7 (2.2- 6.2)	3.6 (2.0- 6.4)
Mean Weight-for Height Z (WHZ)	-0.76±1.08	-0.86±1.15	-0.82±1.19
DEFF WHZ<-2	3.2	1.28	1.77
Oedema	0.0	0.0	0.0
MUAC (<12.5 cm or oedema) - FSNAU	8.2(5.8-11.5)	9.2 (5.4-11.7)	11.6 (7.3-14.8)
Severe MUAC (<11.5cm) - FSNAU	2.0(1.0-3.8)	1.3 (0.6- 2.4)	1.4 (0.6- 2.4)
Stunting (HAZ-2) - WO/UNICEF	6.6(4.4-9.8)	7.9 (5.5-11.1)	3.5 (2.2- 5.5)
Under weight (WAZ-2 - WHO/UNICEF	11.8(8.3-16.6)	9.7 (7.1-13.0)	11.6 (8.1-16.5)
Malnutrition Trends (HIS) - FSNAU	Low(>10% and decreasing trend)	High (>10% and stable trend)	High (>10% and stable trend)
Crude death Rate	0.26(0.13-0.5)	0.32 (0.13-0.80)	0.45 (0.23-0.87)
Under 5 death Rate	0.13(0.02-0.98)	0.52 (0.16-1.64)	0.61 (0.18-2.07)
NUTRITION SITUATION- WHO/UNICEF	<i>Serious</i>	<i>Critical</i>	<i>Critical</i>
Risk/Underlying Factors			
Morbidity	40.0%	24.6%	39.9%
Vit A Sup	81.5%	91.2%	59.8%
Measles Vac.	83.8%	85.7%	65.2%
FCS		8.0% (poor to borderline)	19.0% (poor to borderline)
HHS		11.0% (severe to moderate)	28% (severe to moderate)
CSI		6.5%	12%
Food Security Phase - IPC	Stressed	Stressed	Stressed

Acute malnutrition admission trend in Hawd 2016

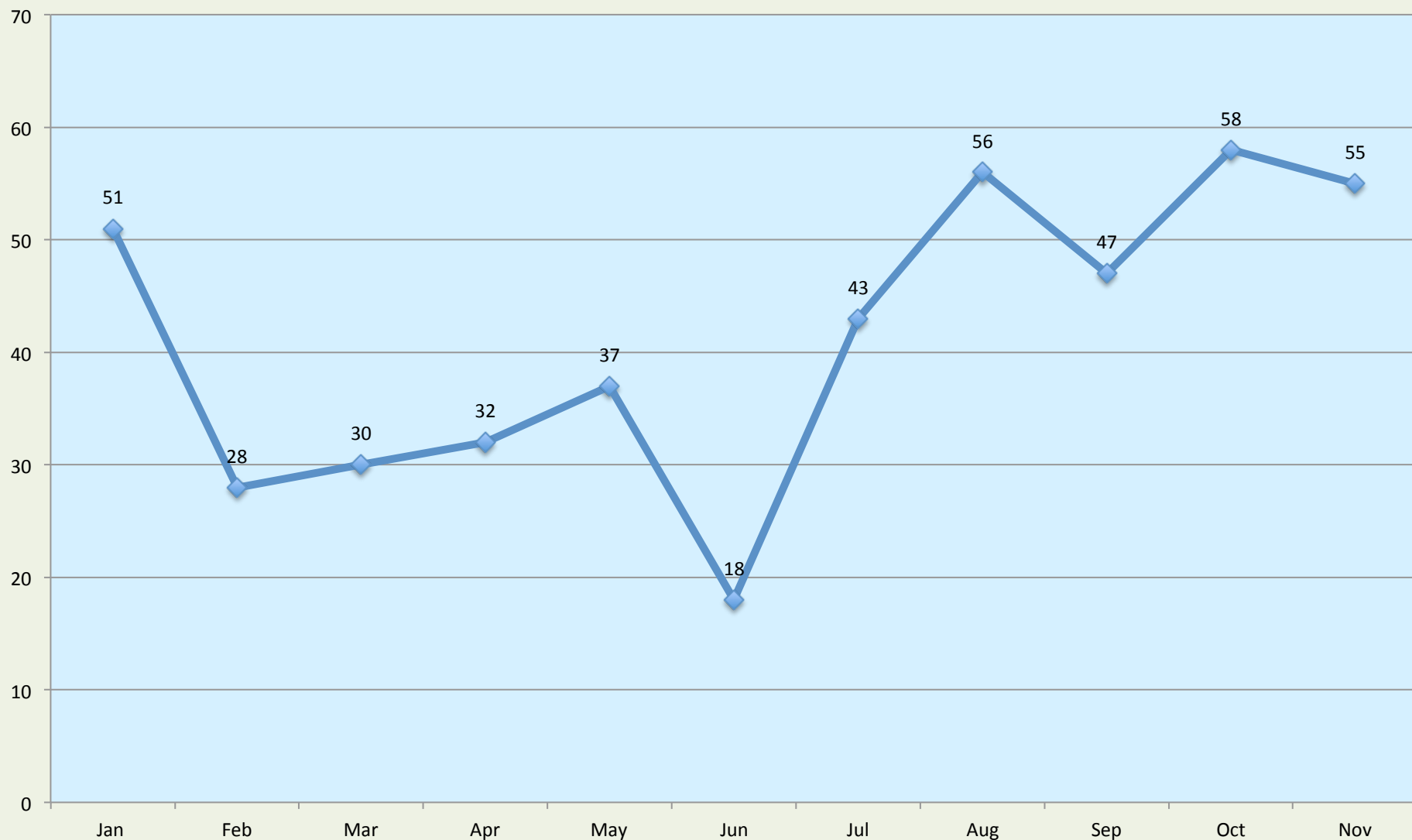


NUTRITION SITUATION IN ADDUN

INDICATORS	Deyr 2015 (n=736)	Gu 2016 (n=623)	Deyr 2016 (n=592)
Plausibility	3 Excellent	10 Good	8 Excellent
GAM (WHZ<-2 or oedema - WHO/ UNICEF)	9.5(6.5-13.7)	10.4 (7.5-14.4)	22.6 (17.6-28.7)
SAM (WHZ<-3 or oedema - FSNAU)	1.9(1.1-3.2)	1.6 (0.7- 3.9)	4.6 (2.9- 7.1)
Mean Weight-for Height Z (WHZ)	-0.57 ± 1.04	-0.72±1.06	-1.13±1.08
DEFF WHZ<-2	2.6	1.84	2.09
Oedema	0	0	0.7
MUAC (<12.5 cm or oedema) - FSNAU	3.5(1.9-6.3)	5.7 (3.5- 8.9)	13.4 (8.3-17.1)
Severe MUAC (<11.5cm) - FSNAU	0.1(0.0-1.1)	0.3 (0.0- 2.4)	2.8 (1.3- 5.1)
Stunting (HAZ-2) - WHO/UNICEF	6.6(4.1-10.5)	4.5 (2.5- 7.8)	5.1 (3.2- 8.1)
Under weight (WAZ-3 - WHO/UNICEF)	9.3(6.2-13.8)	5.5 (3.1- 9.8)	11.1 (7.9-15.5)
Malnutrition Trends (HIS) - FSNAU	Low(10% and stable)	High (15 % and stable)	High (15 % and stable)
Admission trends - Feeding	Low admision & Decreasing	Low admision & Decreasing	Low admision & Decreasing
Crude death Rate	0.00 (0.00-0.00)	0.11(0.04-0.29)	0.18(0.07-0.48)
Under 5 death Rate	0.45 (0.14-1.43)	0.09(0.01-0.42)	0.51(0.16-1.58)
NUTRITION SITUATION- WHO/UNICEF	Alert	Serious	Critical
Risk/Underlying Factors			
Morbidity	42.2%	35.4%	31.9%
Vit A Sup.	80.5%	70.3%	63.4%
Measles Vac.	78.7%	69.7%	69.7%
FCS		7.0% (poor to borderline)	32% (poor to borderline)
HHS		6% (severe to moderate hunger)	13% (severe to moderate hunger)
CSI		4.5%	11%
Food Security Phase - IPC			

Acute Malnutrition new admission trend in Addun 2016

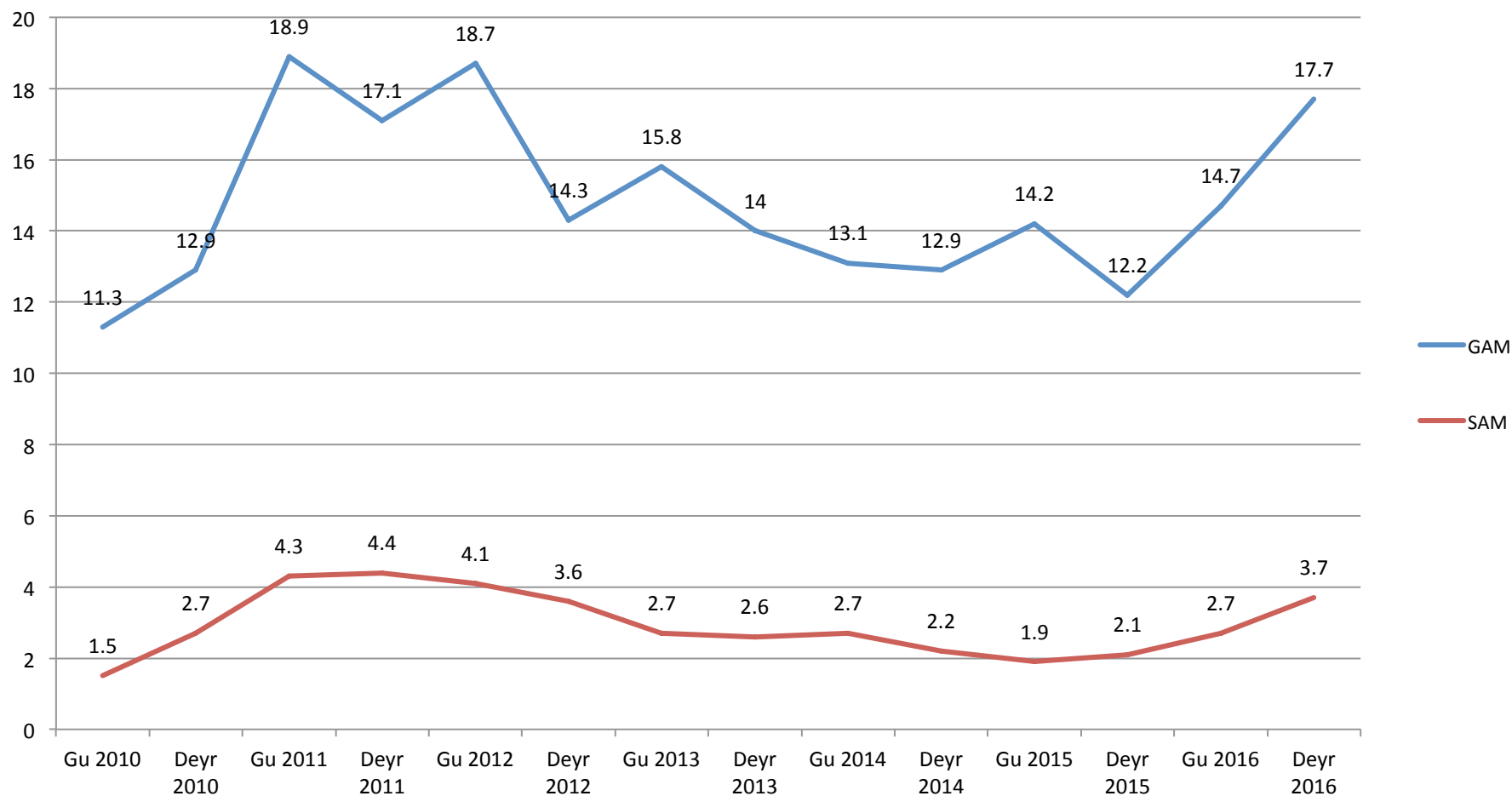
Source: MOH



NUTRITION SITUATION IN NIP

INDICATORS	Deyr 15/16 (n=809)	Gu'16 (n=600)	Deyr 2016 (n=593)
Plausibility	20%	9%	9%
GAM (WHZ<-2 or oedema - WHO/ UNICEF	8.0(5.9-10.9)	10.5 (7.4-14.7)	18.0 (14.0-22.9)
SAM (WHZ<-3 or oedema - FSNAU	0.7 (0.3- 1.6	2.0 (1.0- 3.9	3.0 (1.7- 5.3)
Mean Weight-for Height Z (WHZ)	-0.29±1.19	-0.66±1.10	-0.96±1.08
DEFF WHZ<-2	1.63	1.99	1.93
Oedema	0.0	0.0	0.5
MUAC (<12.5 cm or oedema) - FSNAU	2.3 (1.1- 4.8)	6.0 (4.0- 9.0)	8.1 (4.7-13.6)
Severe MUAC (<11.5cm) - FSNAU	0.1 (0.0- 0.9)	1.6 (0.9- 2.9)	2.1 (1.2- 3.8)
Stunting (HAZ-2) - WO/UNICEF	2.9(1.8- 4.7)	3.6 (2.1- 6.1)	2.3 (1.4- 4.0)
Under weight (WAZ-2 - WHO/UNICEF	3.9 (2.7- 5.5)	6.9 (4.8- 9.8)	9.7 (6.9-13.4)
Malnutrition Trends (HIS) - FSNAU	Low (<10%) stable	Low(>10% and increasing trend)	
Crude death Rate	0.58(0.30-1.13)	0.15 (0.06-0.40)	0.60 (0.22-1.58)
Under 5 death Rate	0.74(0.29-1.91)	0.00 (0.00-0.00)	0.94 (0.37-2.37)
NUTRITION SITUATION- WHO/ UNICEF	Alert	Serious	Critical
Risk/Underlying Factors			
Morbidity	23.6%	34.6%	50.1%
Vit A	84.3%	71.9%	63.4%
Measles	79.7%	71.3%	80.6%
FCS		52.0% (poor to borderline)	85.0% (poor to borderline)
HHS		4% (severe to moderate hunger)	62% (sever to moderate hunger)
CSI		5.3%	20%
Food Security Phase - IPC			

NE GAM/SAM TREND



Nutrition Key Driving Factors

Hotspots	Aggravating	Mitigating
LIVELIHOODS	- High Morbidity and Below sphere standard Immunization and vitamin A coverage in most livelihoods and poor health seeking behaviour. - Long standing drought in last three consecutive seasons resulting poor access to milk and other livestock production and water scarcity. - High indebtedness due long standing water trucking and extreme outmigration through hired cars in Hawd, Addun and NIP. - Insecurity in Addun - Lack of market and demand for fishing communities- COASTAL.	- Social support - MOH health intervention in certain livelihoods.
IDPs	Water shortage compromise WASH High Morbidity and Below standard Immunization and vitamin A coverage in most IDPs is poor and poor health seeking behaviour. Water contamination at HH level	- Improved Vit A and measles vaccination though it is still below the standard. - No outbreaks and deaths reported

IDPs Photos



IDPs Photos



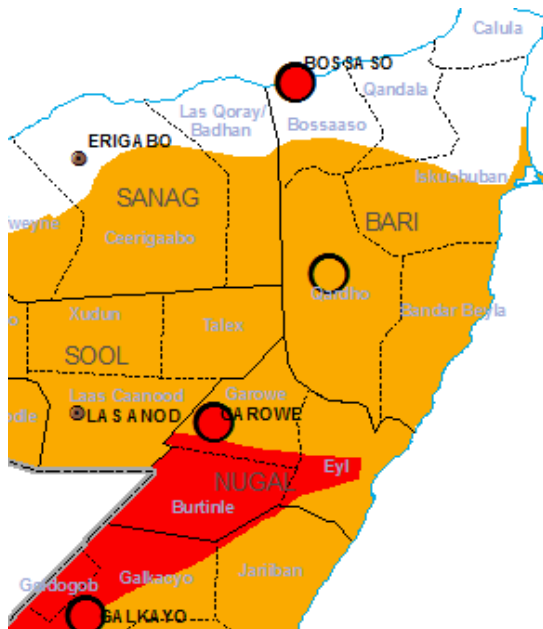


NIP Photos

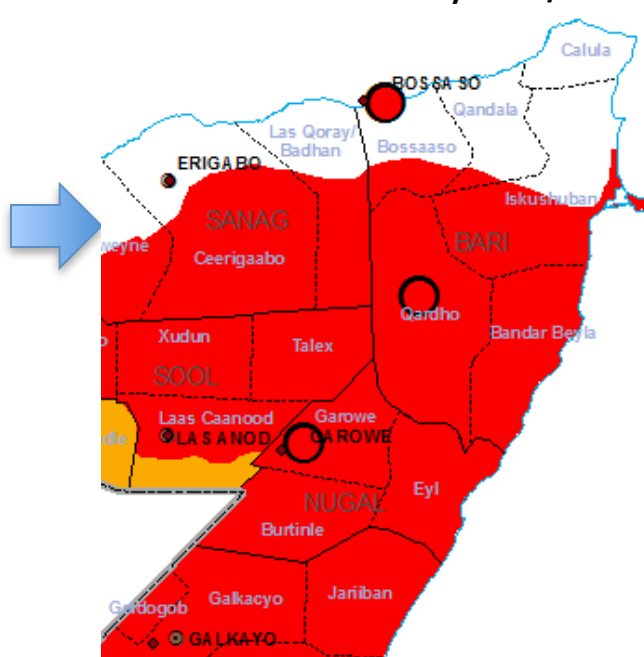


Northeast/Central Nutrition Situation Estimates

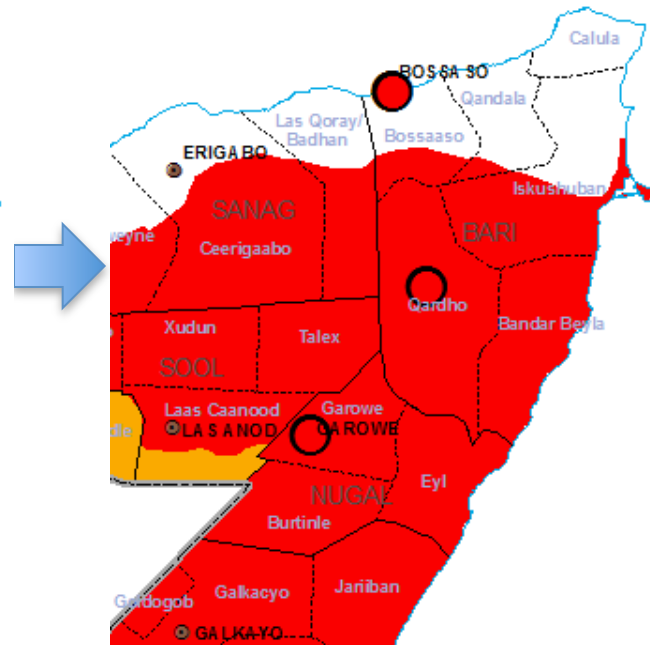
Nutrition Situation Gu 2016



Nutrition Situation Deyr 2016/17



Nutrition Projection Feb - April 2017



Improved: None

Stable: The livelihood of Hawd Pastoral, Garowe IDPs and Bosaso IDPs remained Critical.

Deteriorated: Addun Pastoral, Coastal Deeh, NIP, Qardo IDPs and Dhusamareb IDPs from Serious to Critical.

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