

## Highlights

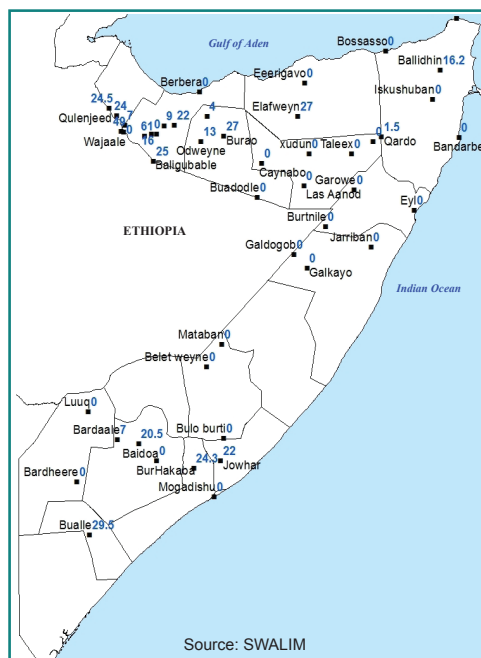
The *Gu* 2018 seasonal rains (April-June) persisted in most of the northern regions and some areas in the South. However, this significantly reduced in terms of intensity with poor spatial and temporal distribution. Most rainfall activities were experienced in the 3<sup>rd</sup> *dekad* of June, with most of the stations recording below average rains in the month of June except a few stations including; Bilidhin (16mm), Elafweyn (27mm), Burao (27mm), Aburin (61mm) and Baidoa (20mm) (Table 1 and Map1}. Shabelle river level has significantly dropped due to reduction of rainfall activities in the upper catchments. However, it is still supportive of crop irrigation activities especially in Hiran.

Rainfall estimates (RFE) derived from tropical applications of Meteorology using satellite (TAMSAT) confirms gradual end of *Gu* rains in large parts of the country (Maps 3-5). Analysis of Normalized Difference Vegetation Index (NDVI) derived from E-Modis show substantial improvement in vegetation conditions in key pastoral and agropastoral areas which is attributed to effective rainfall in April and May. However, depressed vegetation is evident in small pockets of agropastoral of Shabelle, Northern Inland Pastoral (NIP) and pastoral livelihoods in the Juba's and Gedo (Maps 6-8 and 10).

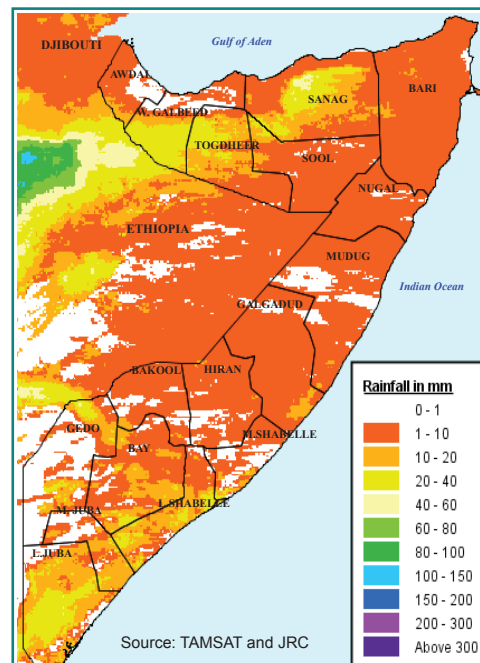
Field reports confirm that pasture and water conditions in many parts of the country have improved and remain favorable while opportunistic normal livestock migration in search for better pasture is observed across the country.

In localized areas in NIP and Coastal *Deeh*, pasture and browse availability is still limited. In Bay, the early-planted crops are at maturity stage. Late-planted crops (Sorghum, maize and sesame) are in good condition and are at establishment stages. They are expected to be harvested in late August to early September 2018. In the flood affected areas along Shabelle River, some farmers replanted crops and benefitted from recession cultivation.

Map 1: June 2018 Monthly Rain Gauge Data

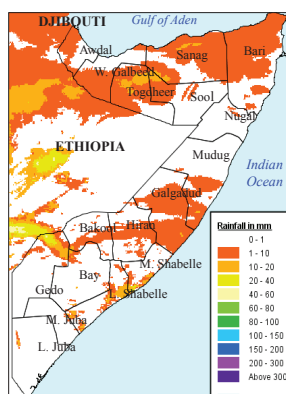


Map 2: June 2018 Monthly Rainfall Estimates (TAMSAT)

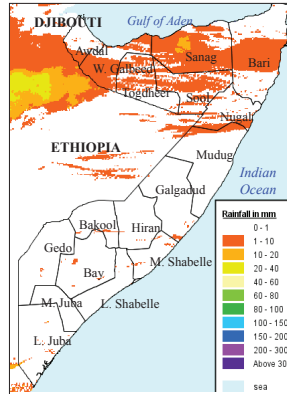


### June 2018: Dekadal Rainfall (RFE) Progression

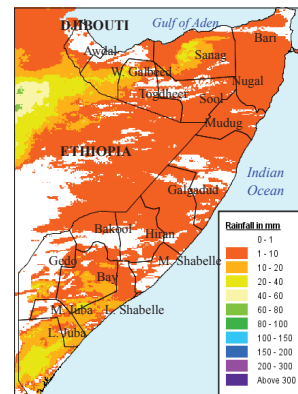
Map 3: 1st Dekad (1-10)



Map 4: 2nd Dekad (11-20)

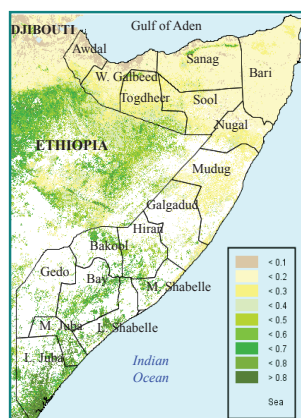


Map 5: 3rd Dekad (21-30)

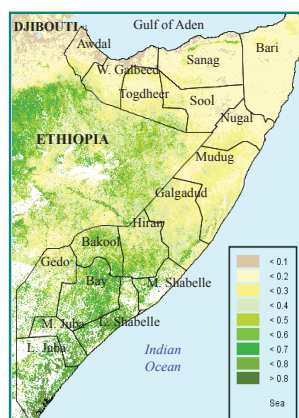


### June 2018: Dekadal Vegetation Cover (NDVI) Progression

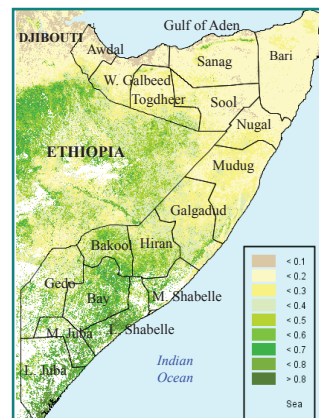
Map 6: 1st Dekad (1-10)



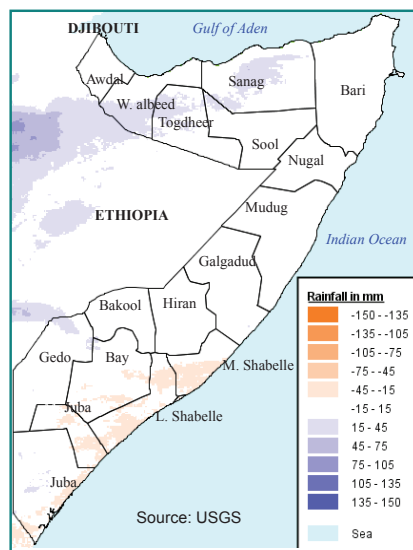
Map 7: 2nd Dekad (11-20)



Map 8: 3rd Dekad (21-30)



Map 9: June 2018 Estimated Rainfall Difference (in mm) From Short Term Mean (1999-2017)



Map 10: June 2018 Vegetation Cover (NDVI) Absolute Difference from Short Term Mean (2001-2017)

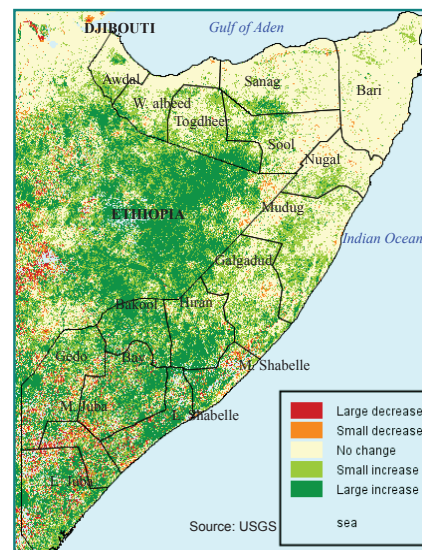


Table 1: Observed rain gauge data compared to long term monthly averages (June 2018)

## Northern Regions

Region	Station_Name	dek 1	dek 2	dek 3	Jun-18	LTM
Awdal	Borama	0.0	8.0	16.0	24.0	27.0
Awdal	Qulenjeed	0.0	0.0	24.5	24.5	40.0
Bari	Bossasso	0.0	0.0	0.0	0.0	0.0
Bari	Qardo	0.0	0.0	1.5	1.5	4.0
Bari	Dangoroyo	0.0	0.0	0.0	0.0	4.0
Bari	Ballidhin	16.2	0.0	0.0	16.2	4.0
Bari	Alula	0.0	0.0	0.0	0.0	0.0
Bari	Bandarbeyla	0.0	0.0	0.0	0.0	2.0
Bari	Iskushuban	0.0	0.0	0.0	0.0	2.0
Mudug	Galdogob	0.0	0.0	0.0	0.0	7.0
Mudug	Jarriban	0.0	0.0	0.0	0.0	6.0
Mudug	Galkayo	0.0	0.0	0.0	0.0	6.0
Nugaal	Garowe	0.0	0.0	0.0	0.0	9.0
Nugaal	Eyl	0.0	0.0	0.0	0.0	0.0
Nugaal	Burt Nile	0.0	0.0	0.0	0.0	9.0
Sanaag	Eeerigavo	0.0	0.0	0.0	0.0	38.0
Sanaag	Elafweyn	0.0	0.0	27.0	27.0	19.0
Sool	Caynabo	0.0	0.0	0.0	0.0	17.0
Sool	xudun	0.0	0.0	0.0	0.0	10.0
Sool	Taleex	0.0	0.0	0.0	0.0	9.0
Sool	Las Aanod	0.0	0.0	0.0	0.0	1.0
Togdheer	Burao	0.0	0.0	27.0	27.0	23.0
Togdheer	Sheikh	0.0	0.0	4.0	4.0	68.0
Togdheer	Odweyne	13.0	0.0	0.0	13.0	28.0
Togdheer	Buadodle	0.0	0.0	0.0	0.0	16.0
Wogooyi Galbeed	Gebilley	0.0	5.0	44.0	49.0	51.0
Wogooyi Galbeed	Malawle	0.0	0.0	0.0	0.0	36.0
Wogooyi Galbeed	Wajaale	0.0	0.0	0.0	0.0	49.0
Wogooyi Galbeed	Hargeisa	0.0	0.0	16.0	16.0	33.0
Wogooyi Galbeed	Darawayne	0.0	0.0	9.0	9.0	31.0
Wogooyi Galbeed	Cadaadley	0.0	0.0	4.0	4.0	26.0
Wogooyi Galbeed	Dilla	0.0	0.0	7.0	7.0	48.0
Wogooyi Galbeed	Aburin	10.0	7.0	44.0	61.0	38.0
Wogooyi Galbeed	Dhubato	0.0	0.0	22.0	22.0	31.0
Wogooyi Galbeed	Baligubable	0.0	0.0	25.0	25.0	38.0
Wogooyi Galbeed	Berbera	0.0	0.0	0.0	0.0	0.0

## Southern Regions

Region	Station_Name	dek 1	dek 2	dek 3	Jun-18	LTM
Bakool	Hudur	5.5	0.0	0.5	6.0	0.0
Bakool	Elbarde	0.0	0.0	0.0	*	5.0
Banadir	Mogadishu	0.0	0.0	0.0	0.0	86.0
Bay	Baidoa	10.0	2.5	8.0	20.5	19.0
Bay	Bardaale	1.5	2.0	3.5	7.0	14.0
Bay	Burhakaba	0.0	0.0	0.0	0.0	13.0
Bay	Wanleweyne	19.5	4.8	0.0	24.3	*
Gedo	Luuq	0.0	0.0	0.0	0.0	2.0
Gedo	Bardheere	0.0	0.0	0.0	0.0	10.0
Hiraan	Belet weyne	0.0	0.0	0.0	0.0	15.0
Hiraan	Bulo burti	0.0	0.0	0.0	0.0	5.0
Hiraan	Mataban	0.0	0.0	0.0	0.0	11.0
Lower Shabelle	Balad	0.0	0.0	0.0	*	71.0
Middle juba	Bualle	12.0	11.5	6.0	29.5	72.0
Middle Shabelle	Jowhar	22.0	0.0	0.0	22.0	41.0

\*indicates missing data

## Monthly rainfall and NDVI performance maps

The Mapped NDVI and RFE above represent the differences from Long Term Mean. E-MODIS NDVI is presented as absolute difference from Long Term Mean for the same period (current - long term mean), while TAMSAT-RFE is presented as the relative difference from Long Term Mean (Current\*100)/LTM.

## Seasonal Trend Graph

The maps and graphs on pages 3 and 4 are produced in collaboration with the Joint Research Centre of the European Commission. The graphs present seasonal trends of crop specific NDVI (Normalised Difference Vegetation Index) as lines and rainfall values (RFE) as bars for each of the delineated land cover and administrative units (regions and districts). For more information or request on available data, please send an email to: [data@fsnau.org](mailto:data@fsnau.org).

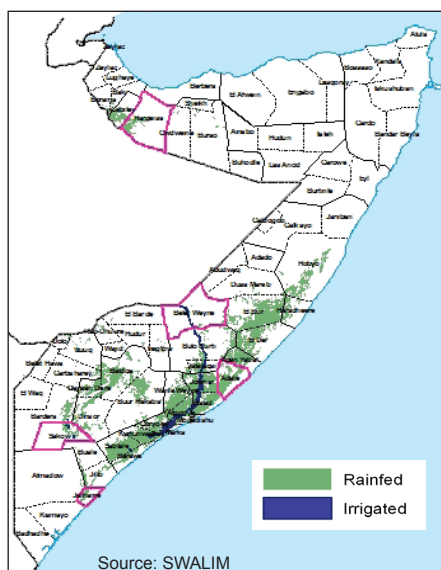
Primary data sources are NOAA/USGS, European Centre for Medium- range Weather Forecast (ECMWF), MARS-JRC, FSNAU and SWALIM. Maps and graphs on this bulletin are produced from four sources.

- Current Rainfall Estimates and NDVI data are derived from NOAA/CPC and DEVCOCAST ([www.devcoast.eu](http://www.devcoast.eu)) respectively, while the rain gauge data is collected by FAO-SWALIM and FEWSNET.

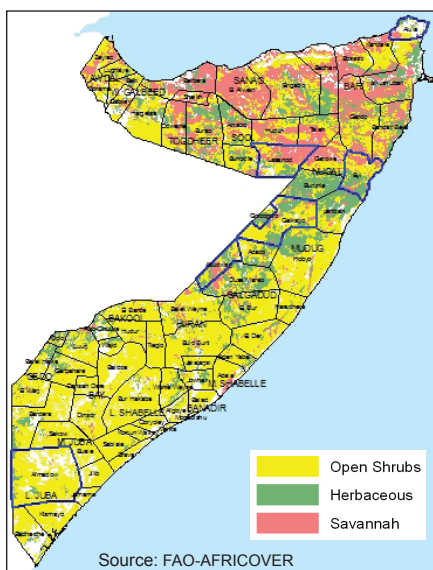
- The seasonal profiles on page 3 and 4 are produced in collaboration with JRC-MARS. For more information visit <http://mars.jrc.europa.eu/mars/About-us/FOODSEC> For more information on NDVI visit <http://earlywarning.usgs.gov/adds> and <http://fsausomali.org/fileadmin/uploads/1308.pdf>

- This report is a compilation of climate data and field reports on Somalia that FSNAU and FEWS NET regularly review for analysis. The TAMSAT information is available on <http://www.met.reading.ac.uk/tamsat/about/>

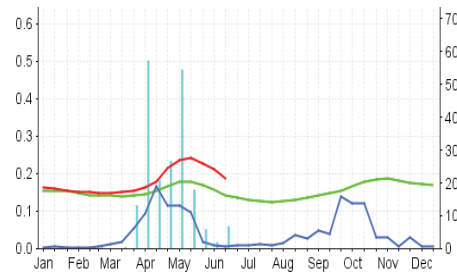
Map 12: Agricultural Areas



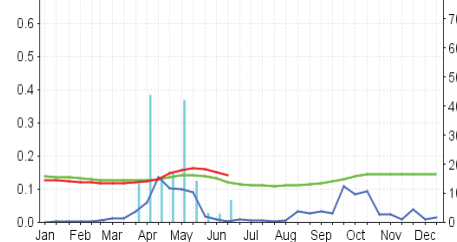
Map 13: Pastoral Areas



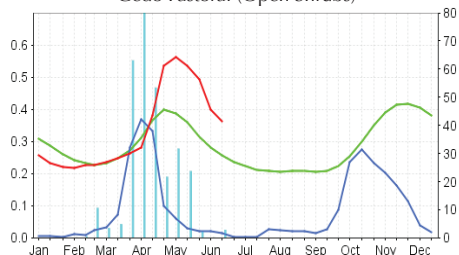
Togdheer Pastoral (Savannah)



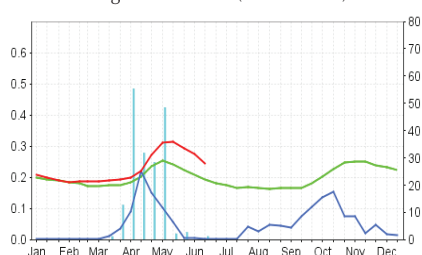
Saanag Pastoral (Savannah)



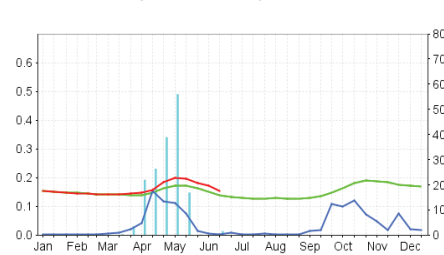
Gedo Pastoral (Open Shrubs)



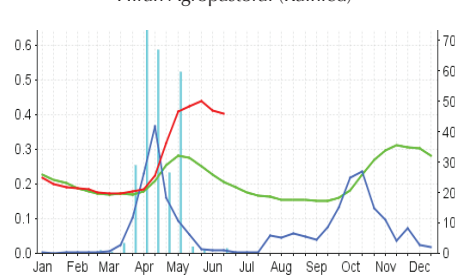
Galgadud Pastoral (Herbaceous)



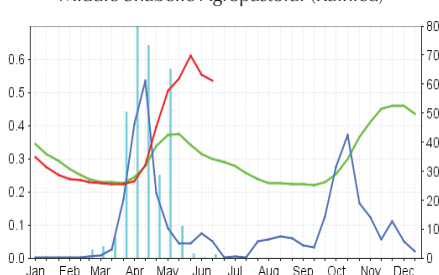
Nugal Pastoral (Open Shrubs)



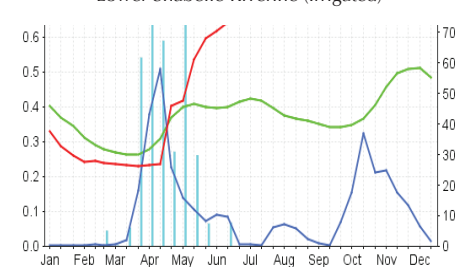
Hiran Agropastoral (Rainfed)



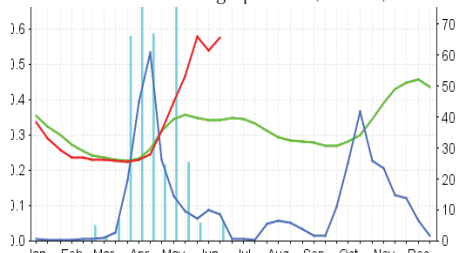
Middle Shabelle Agropastoral (Rainfed)



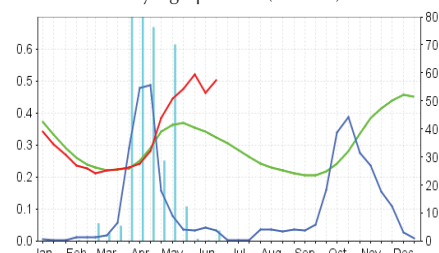
Lower Shabelle Riverine (Irrigated)



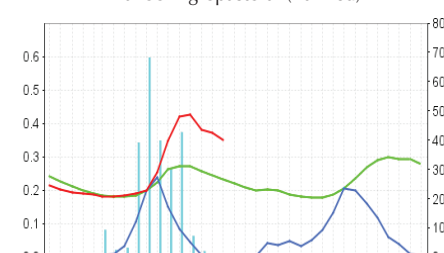
Lower Shabelle Agropastoral (Rainfed)



Bay Agropastoral (Rainfed)



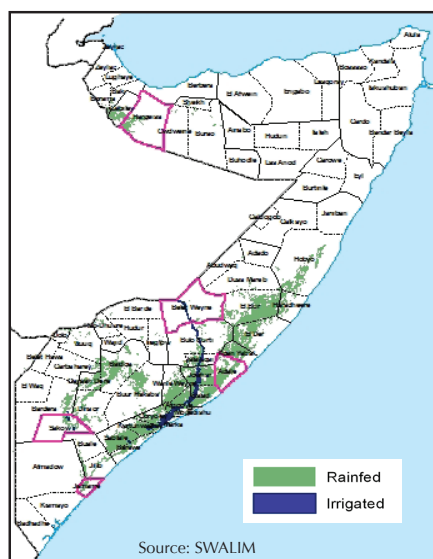
Bakool Agropastoral (Rainfed)



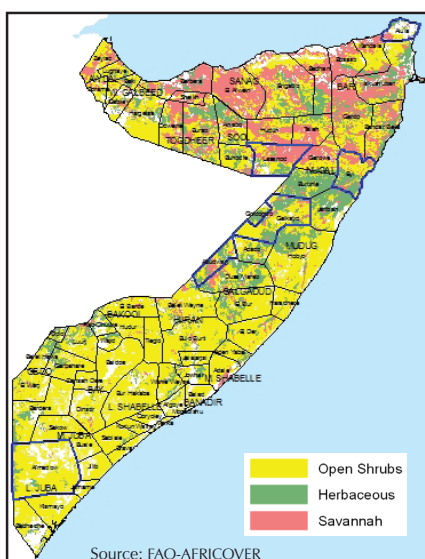
 RFE 2018 
  RFE AVG: 2001-2017 
  NDVI-C 2018 
  NDVI-C LTA MEAN (1999-2017)



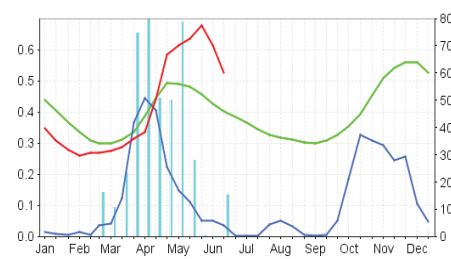
Map 14: Agricultural Areas



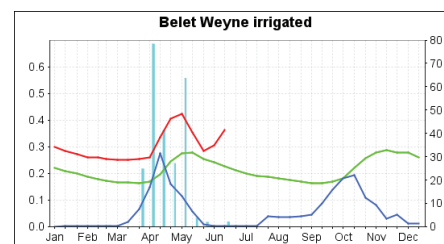
Map 15: Pastoral Areas



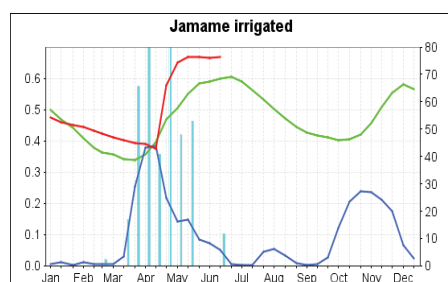
Aimadow Pastoral (Open Shrubs)



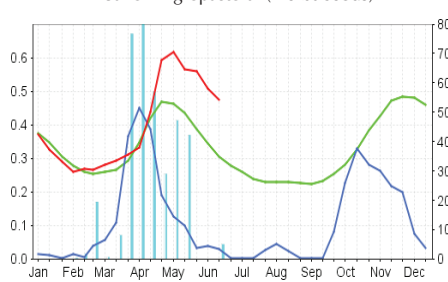
Beletweyn Riverine (Irrigated)



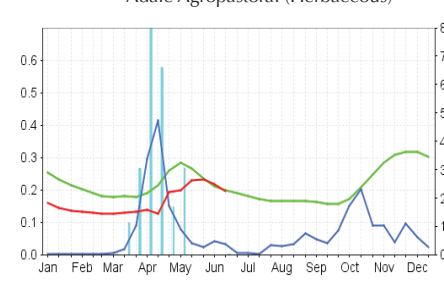
Jamame Riverine (Irrigated)



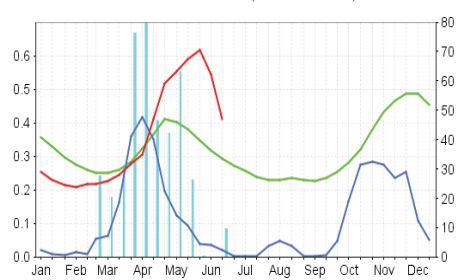
Sakow Agropastoral (Herbaceous)



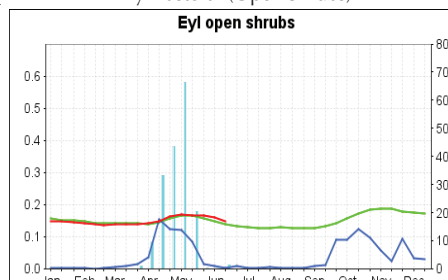
Adale Agropastoral (Herbaceous)



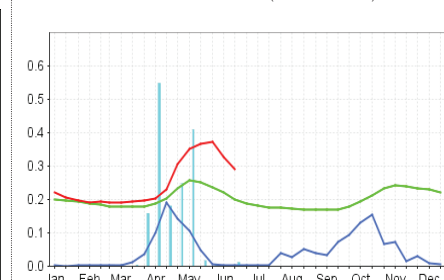
Aimadow Pastoral (Herbaceous)



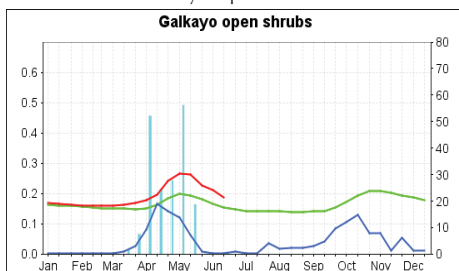
Eyl Pastoral (Open Shrubs)



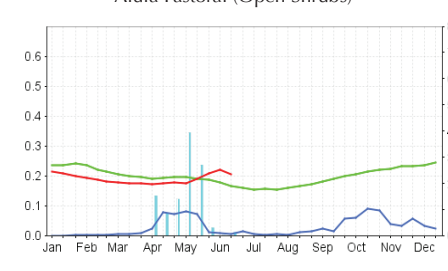
Abudwak Pastoral (Herbaceous)



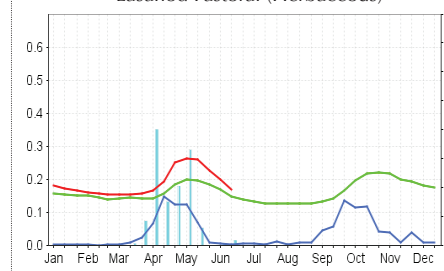
Galkayo Open Shrubs



Alula Pastoral (Open Shrubs)



Lasanod Pastoral (Herbaceous)



RFE 2018
 RFE AVG: 2001-2017
 NDVI-C 2018
 NDVI-C LTA MEAN (1999-2017)