

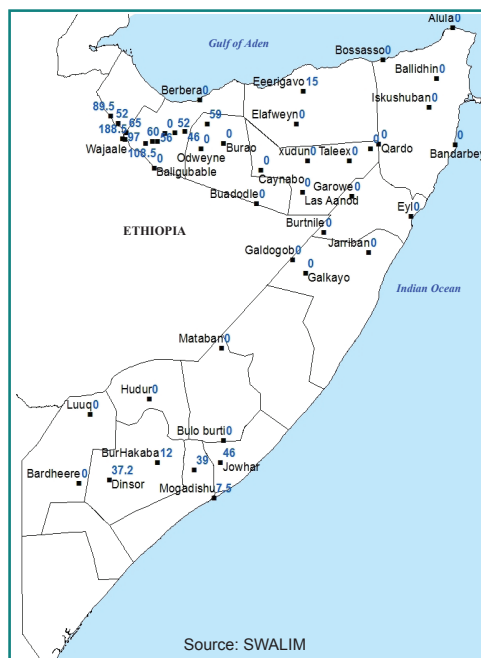
Highlights

The month of August is usually characterized by furtherance of *Karan* rains in the Northwest (Awdal, W Galbeed, Togdher and parts of Sanaag) and the start of *Hagaa* showers in the South (Shabelle, Bay and parts of Juba), whilst the rest of the country typically remains dry. Rain gauges in the northwest recorded favorable amount of rainfall in some of the districts in August 2018 : Gebiley (188mm), Aburin (108), Qulenjeed (89mm), Sheikh (59mm), Hargeisa (56mm) and Borama (52mm). In the South, rain gauges recorded light rains in Jowhar (46mm), Wanlaweyn (39mm), Dinsor (37mm) and Burhakaba (12mm) districts of (Map 1; Table 1).

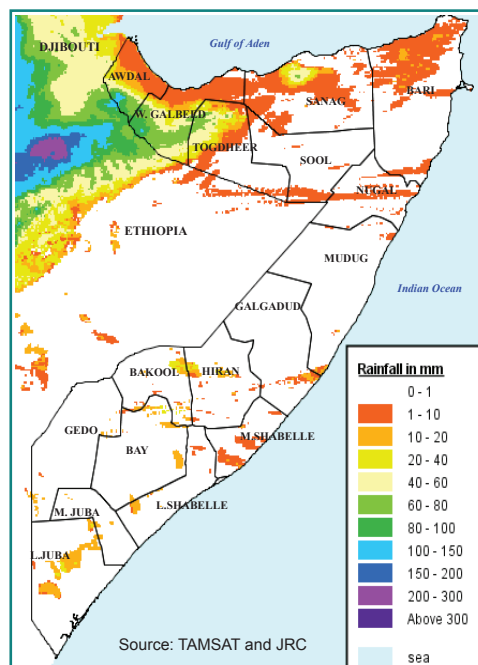
Satellite-derived Rainfall Estimates (RFE) confirm rainfall prevalence in Northwest regions of Awdal, W Galbeed, Togdher and parts of Sanaag during the month of August 2018 (Maps 2-5 and 9). Vegetation cover measured through the Normalized Difference Vegetation Index (NDVI) shows close to normal vegetation conditions in large areas of the country in August. However, in the East Golis Mountains of Sanaag and Bari regions, and localized areas in Bay and Gedo NDVI imagery indicate decreased vegetation, especially in Southern Rainfed Maize Agro pastoral livelihood zone of Lower Shabelle and Juba (along the coast), Sorghum High Potential of Shabelle (Afgoye and Balad) and some small pockets in cowpea belt of Middle Shabelle (Maps 6-8 and 10).

Erratic rains and dry spells during the 2018 *Gu* (April-June) season have adversely affected crop cultivation and performance in agropastoral livelihoods of the northwest. Despite continued rainfall in August, *Gu/karan* 2018 cereal harvest prospects in the northwest are not promising. Dry spells that caused poor germination forced many farmers to replant. Standing crops have also wilted due to moisture stress and pest infestation. Preliminary estimates indicate that the cereal harvest in the northwest expected in November will be below normal although continued *karan* rainfall in September may somewhat improve the harvest prospects.

Map 1: Aug 2018 Monthly Rain Gauge Data

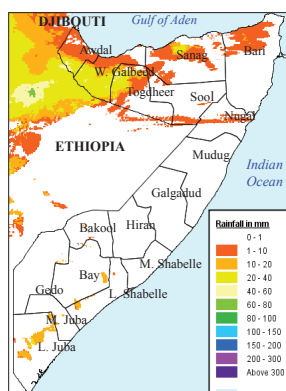


Map 2: Aug 2018 TAMSAT Monthly Rainfall Estimates

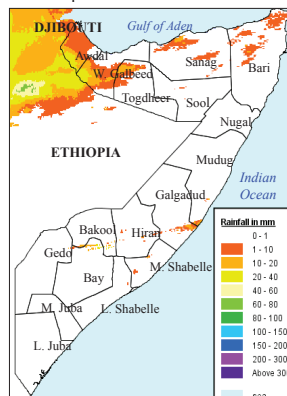


August 2018: Dekadal RFE Progression

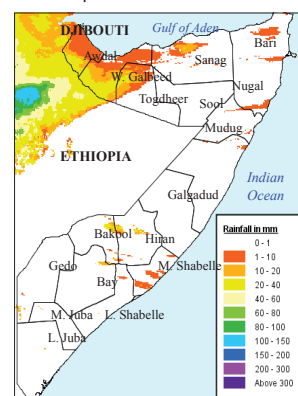
Map 3: 1st Dekad (1-10)



Map 4: 2nd Dekad (11-20)

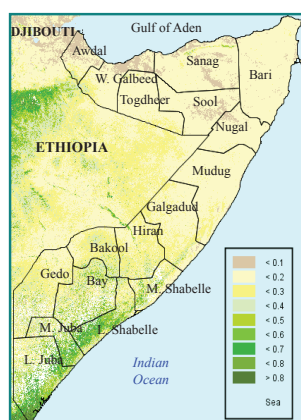


Map 5: 3rd Dekad (21-30)

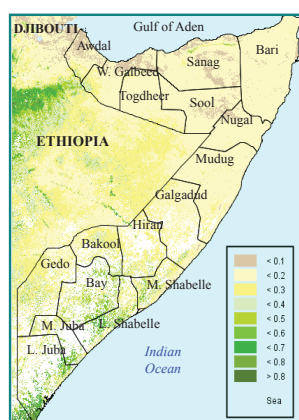


August 2018: Dekadal NDVI Progression

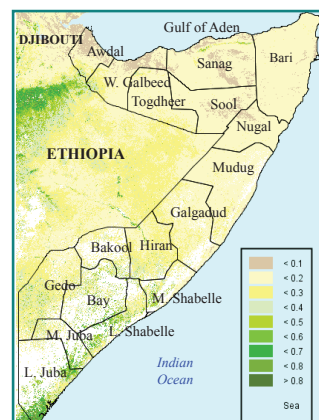
Map 6: 1st Dekad (1-10)



Map 7: 2nd Dekad (11-20)

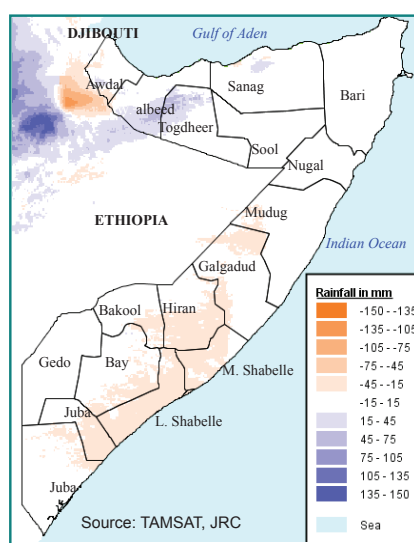


Map 8: 3rd Dekad (21-30)



Monthly rainfall and NDVI performance

Map 9: Aug 2018 TAMSAT Rainfall Difference from short term mean (1999-2017)



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

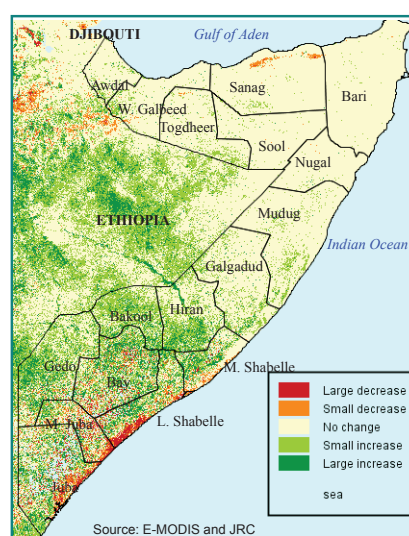


Table 1: Observed rain gauge data compared to long term monthly averages (August 2018)

Northern Regions

Region	Station Name	dek 1	dek 2	dek 3	Aug 18	LTM
Awdal	Borama	28.0	9.0	15.0	52.0	107.0
Awdal	Qulenjeed	49.5	14.5	25.5	89.5	102.0
Bari	Bossasso	0.0	0.0	0.0	0.0	0.0
Bari	Qardo	0.0	0.0	0.0	0.0	4.0
Bari	Dangoroyo	0.0	0.0	0.0	0.0	3.0
Bari	Ballidhin	0.0	0.0	0.0	0.0	4.0
Bari	Alula	0.0	0.0	0.0	0.0	0.0
Bari	Bandarbeyla	0.0	0.0	0.0	0.0	3.0
Bari	Iskushuban	0.0	0.0	0.0	0.0	4.0
Mudug	Galdogob	0.0	0.0	0.0	0.0	3.0
Mudug	Jarriban	0.0	0.0	0.0	0.0	3.0
Mudug	Galkayo	0.0	0.0	0.0	0.0	1.0
Nugaal	Garowe	0.0	0.0	0.0	0.0	6.0
Nugaal	Eyl	0.0	0.0	0.0	0.0	1.0
Nugaal	Burtile	0.0	0.0	0.0	0.0	6.0
Sanaag	Eerigavo	15.0	0.0	0.0	15.0	31.0
Sanaag	Elafweyn	0.0	0.0	0.0	0.0	18.0
Sool	Caynabo	0.0	0.0	0.0	0.0	15.0
Sool	Xudun	0.0	0.0	0.0	0.0	9.0
Sool	Taleex	0.0	0.0	0.0	0.0	8.0
Sool	Las Aanod	0.0	0.0	0.0	0.0	3.0
Togdheer	Burao	0.0	0.0	0.0	0.0	8.0
Togdheer	Sheikh	0.0	22.0	37.0	59.0	47.0
Togdheer	Odweyne	0.0	0.0	0.0	0.0	40.0
Togdheer	Buadodde	0.0	0.0	0.0	0.0	14.0
Wogooyi Galbeed	Gebiley	43.5	43.0	102.0	188.5	82.0
Wogooyi Galbeed	Malawle	0.0	40.0	20.0	60.0	65.0
Wogooyi Galbeed	Wajaale	18.0	38.0	41.0	97.0	91.0
Wogooyi Galbeed	Hargeisa	31.0	4.5	20.5	56.0	55.0
Wogooyi Galbeed	Darawayne	0.0	0.0	0.0	0.0	58.0
Wogooyi Galbeed	Cadaadley	16.5	2.0	27.5	46.0	43.0
Wogooyi Galbeed	Dilla	31.0	12.0	22.0	65.0	95.0
Wogooyi Galbeed	Aburin	38.5	18.5	51.5	108.5	68.0
Wogooyi Galbeed	Dhubato	20.0	0.0	32.0	52.0	54.0
Wogooyi Galbeed	Baligubable	0.0	0.0	0.0	0.0	66.0
Wogooyi Galbeed	Berbera	0.0	0.0	0.0	0.0	3.0

Southern Regions

Region	Station Name	dek 1	dek 2	dek 3	Aug 18	LTM
Bakool	Hudur	*	*	*	0.0	*
Banadir	Mogadishu	0.0	7.5	0.0	7.5	39.0
Bay	Burhakaba	0.0	12.0	0.0	12.0	6.0
Bay	Wanleweyne	0.0	39.0	0.0	39.0	*
Bay	Dinsor	4.7	21.8	10.7	37.2	*
Gedo	Luuq	0.0	0.0	0.0	0.0	1.0
Gedo	Bardheere	0.0	0.0	0.0	0.0	5.0
Hiraan	Bulo burti	0.0	0.0	0.0	0.0	3.0
Hiraan	Mataban	0.0	0.0	0.0	0.0	4.0
Middle Shabelle	Jowhar	0.0	46.0	0.0	46.0	12.0

*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 FOODSEC Action of 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.

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) respectively, while the rain gauge data is collected by FAO-SWALIM and FEWSNET.

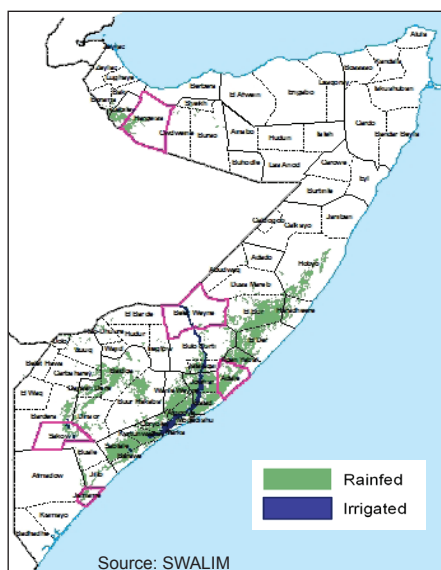
- The seasonal profiles on page 3 and 4 are produced in collaboration with JRC-MARS. For more information visit <http://mars.jrc.europa.eu/mars/About-us/FOODSEC> For more information on NDVI visit <http://earlywarning.usgs.gov/adds> and <http://fsausomali.org/fileadmin/uploads/1308.pdf>

- This report is a compilation of climate data and field reports on Somalia that FSNAU and FEWS NET regularly review for analysis. For more information on data sources, please refer to page 2.

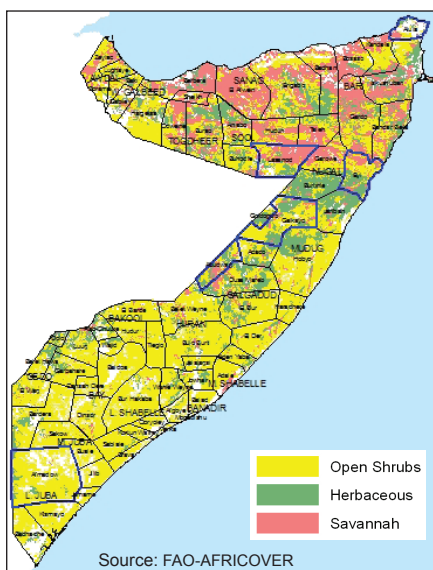
The TAMSAT information is available on <http://www.met.reading.ac.uk/tamsat/about/>

Seasonal rainfall and NDVI trends by region

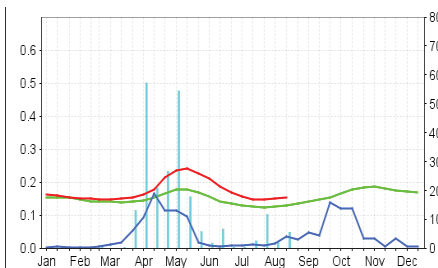
Map 11: Agricultural Areas



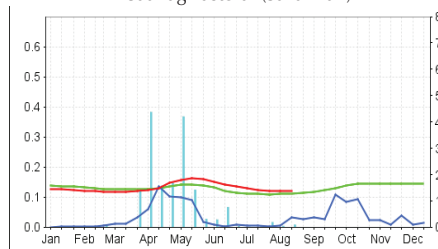
Map 12: Pastoral Areas



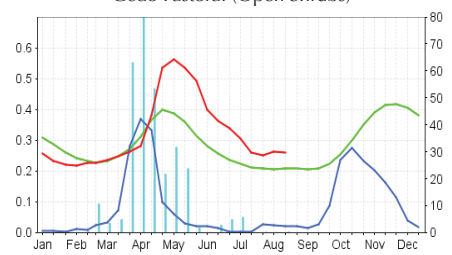
Togdheer Pastoral (Savannah)



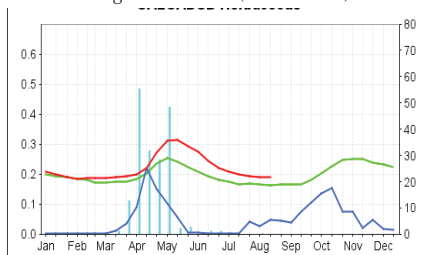
Saanag Pastoral (Savannah)



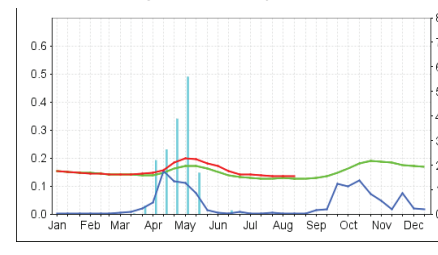
Gedo Pastoral (Open Shrubs)



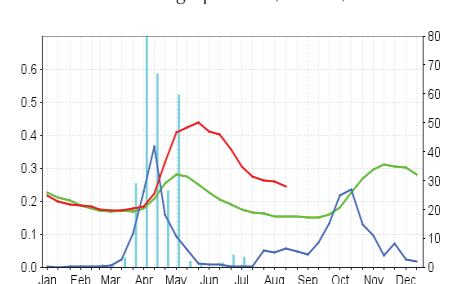
Galgadud Pastoral (Herbaceous)



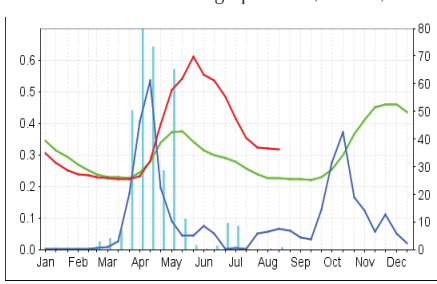
Nugal Pastoral (Open Shrubs)



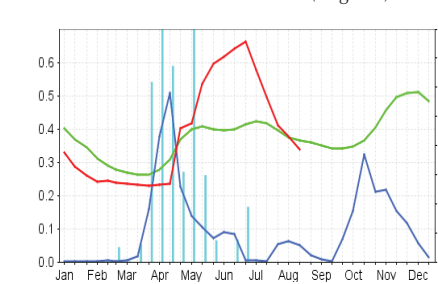
Hiran Agropastoral (Rainfed)



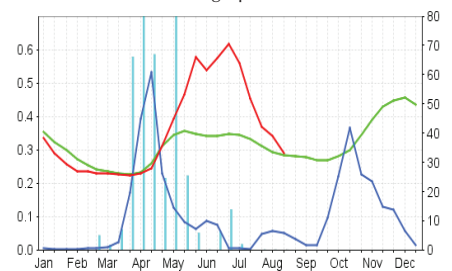
Middle Shabelle Agropastoral (Rainfed)



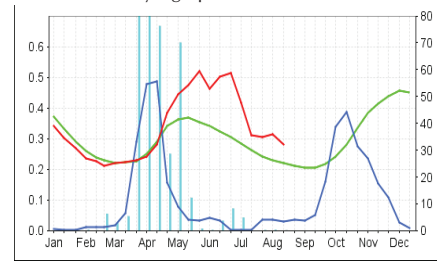
Lower Shabelle Riverine (Irrigated)



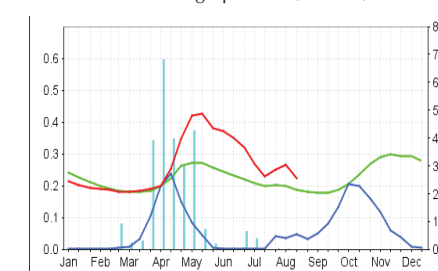
Lower Shabelle Agropastoral (Rainfed)



Bay Agropastoral (Rainfed)

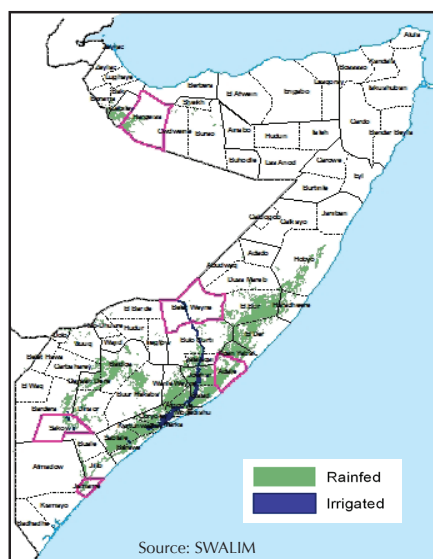


Bakool Agropastoral (Rainfed)

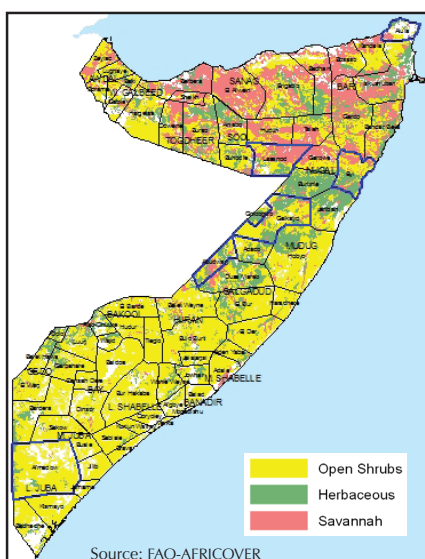


Seasonal rainfall and NDVI trends for selected districts

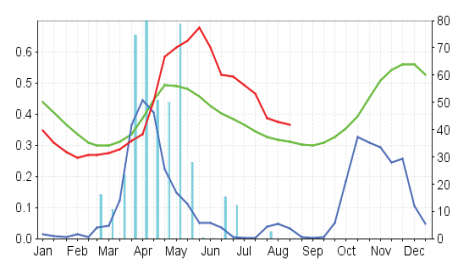
Map 13: Agricultural Areas



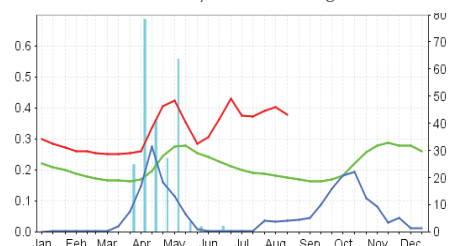
Map 14: Pastoral Areas



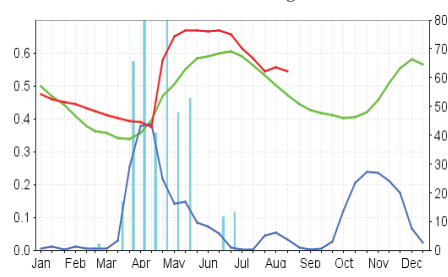
Afmadaw Pastoral (Open Shrubs)



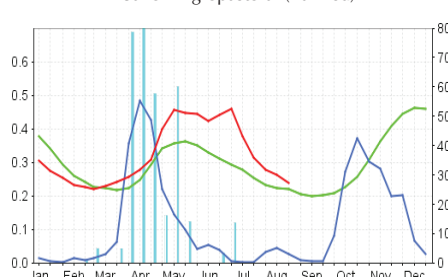
Beletweyn Riverine (Irrigated)



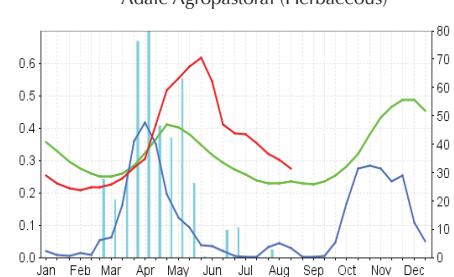
Jamame Riverine (Irrigated)



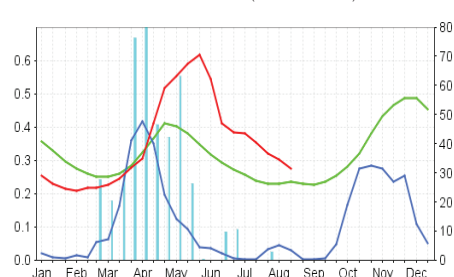
Sakow Agropastoral (Rainfed)



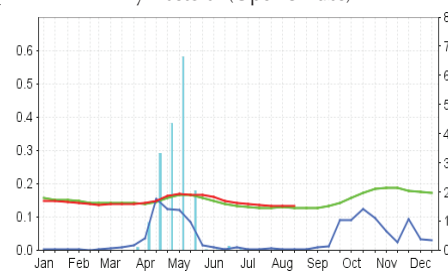
Adale Agropastoral (Herbaceous)



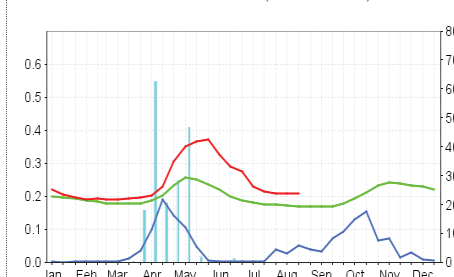
Afmadaw Pastoral (Herbaceous)



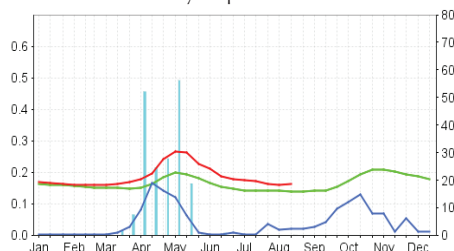
Eyl Pastoral (Open Shrubs)



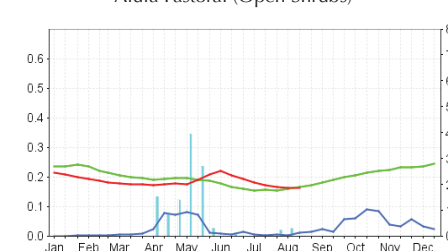
Abudwak Pastoral (Herbaceous)



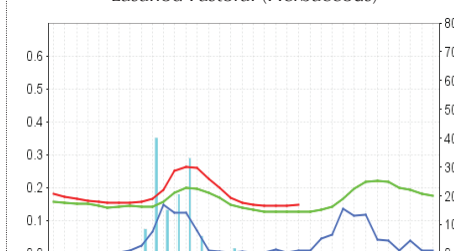
Galkayo Open Shrubs



Alula Pastoral (Open Shrubs)



Lasanod Pastoral (Herbaceous)



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