

# 1<sup>st</sup>. Annual Leadership Course on:

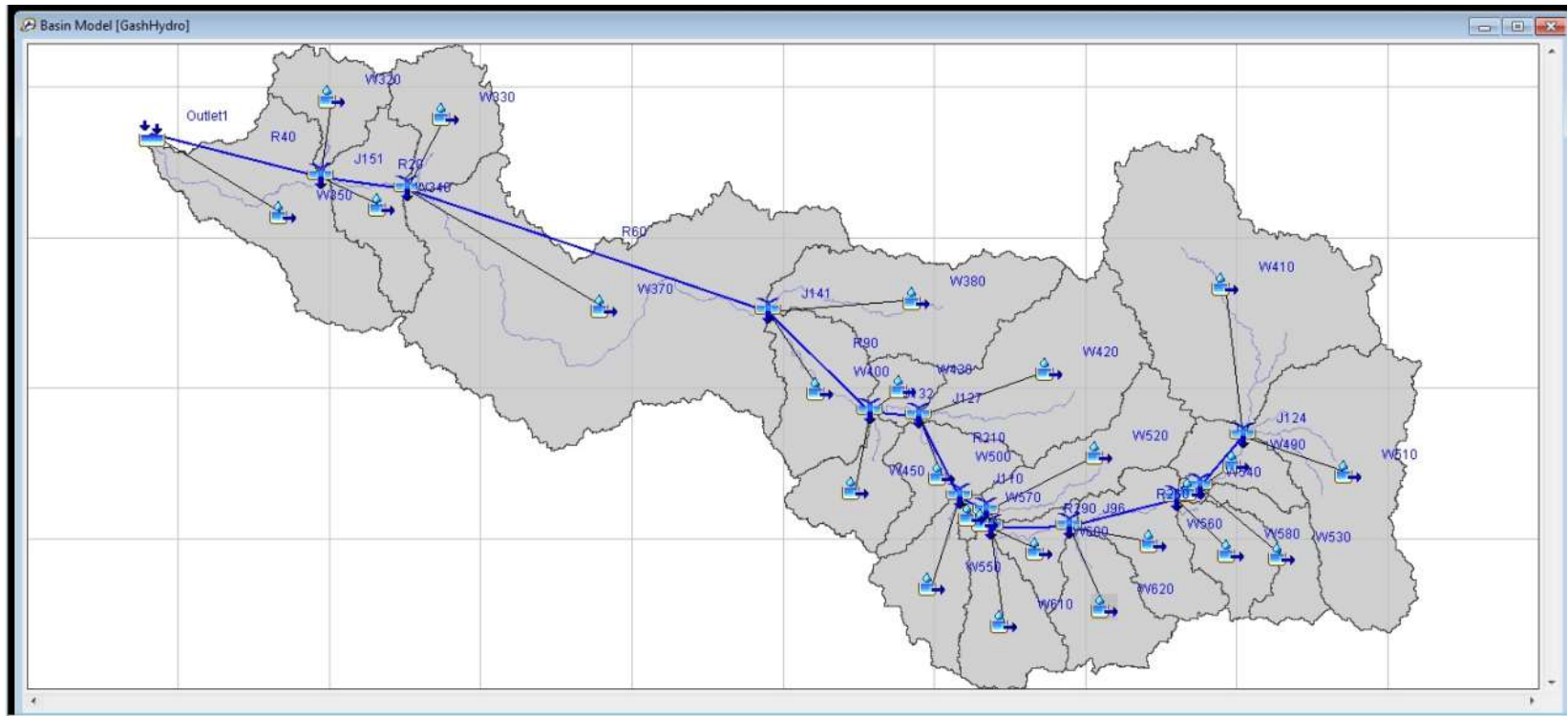
Flood-Based Farming System & Water Harvesting

*29 Feb. – 11 March 2016, Kenya & Tanzania*

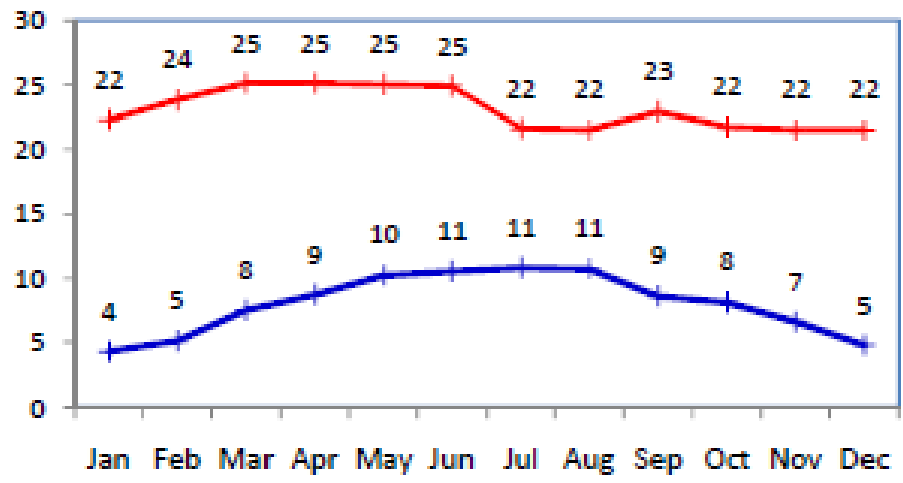


## **GASH RIVER AS SPATE SYSTEM**

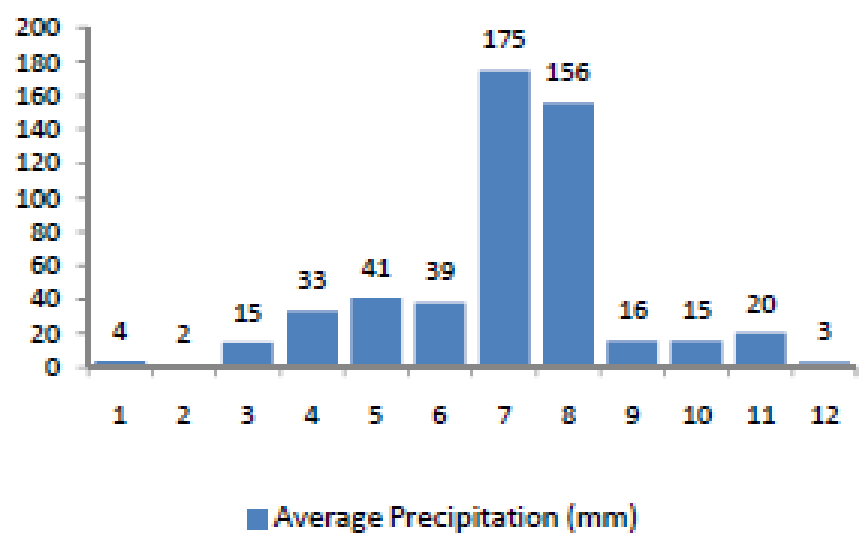
*BY: ABU OBIEDA B. AHMED*

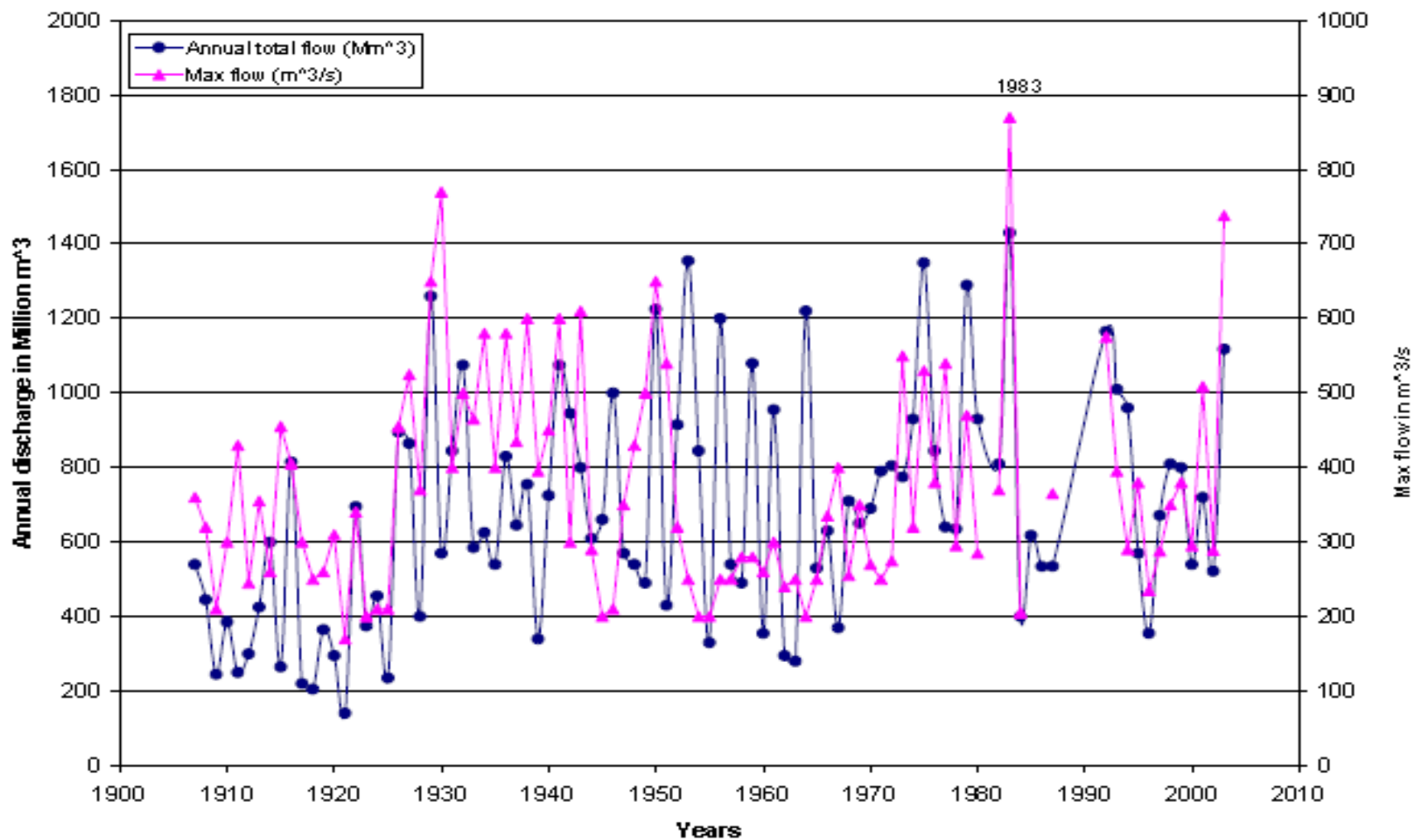


## Gash River Catchment Area.

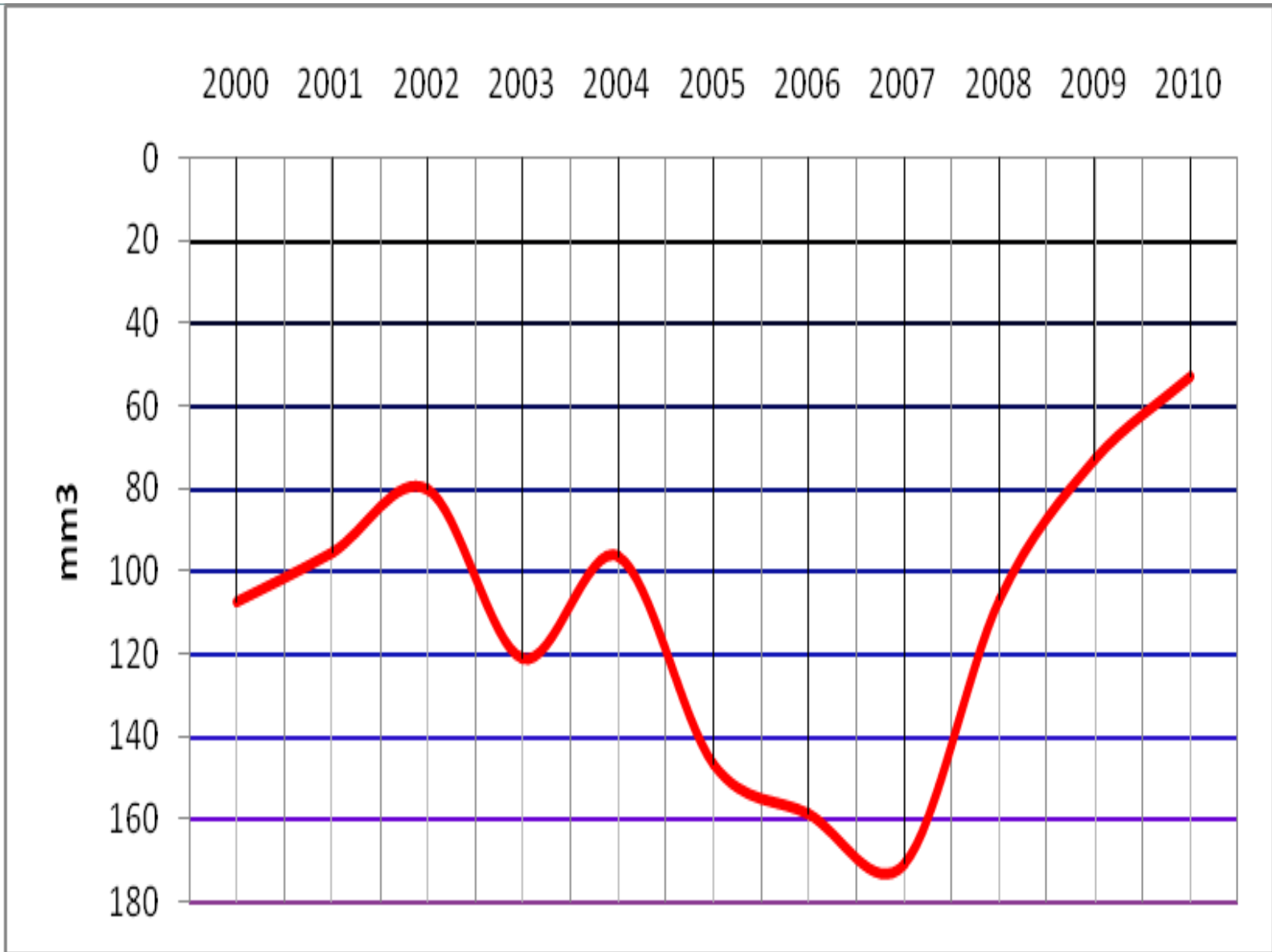


— Average high Temp. °C (°F) — Average low Temp. °C (°F)

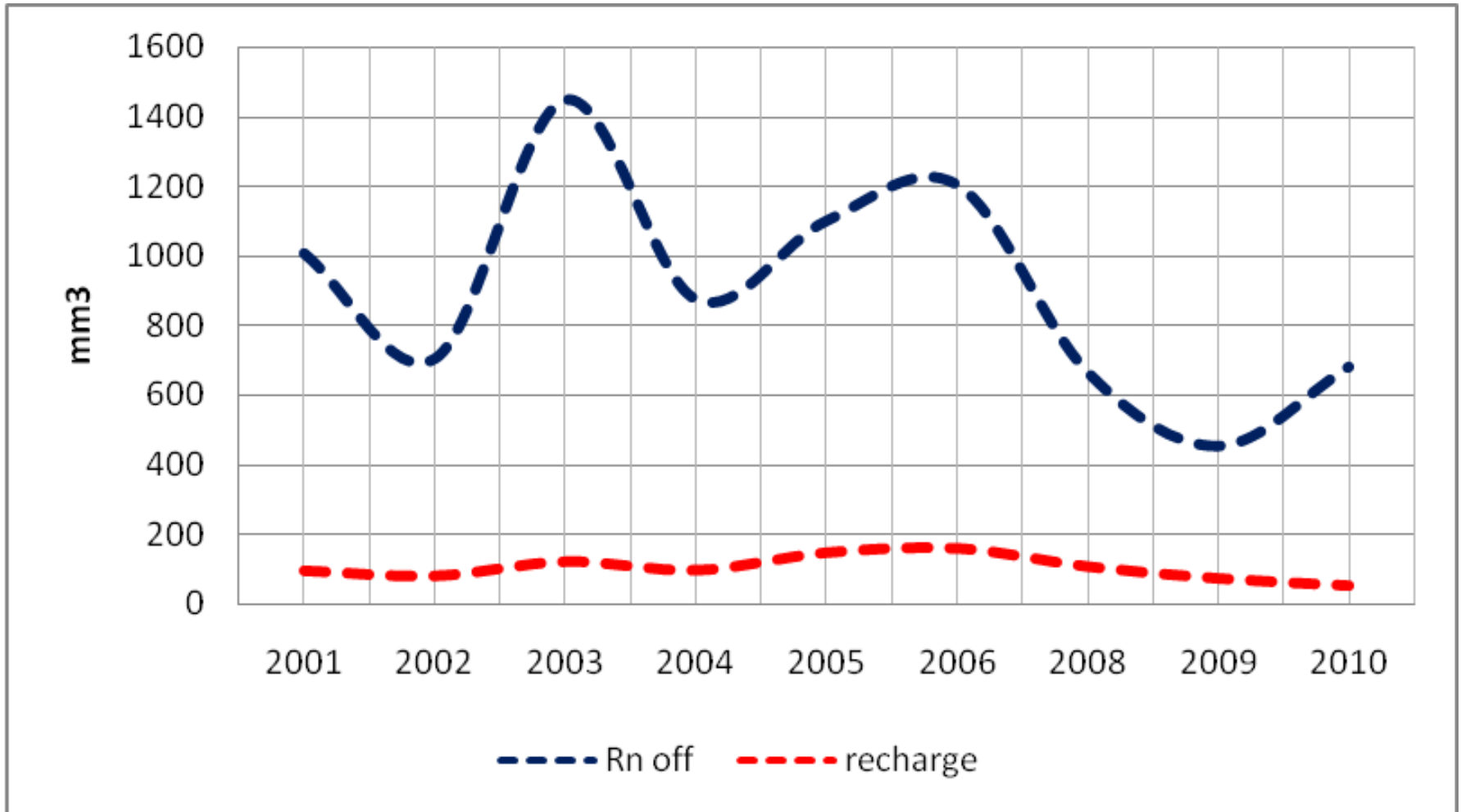




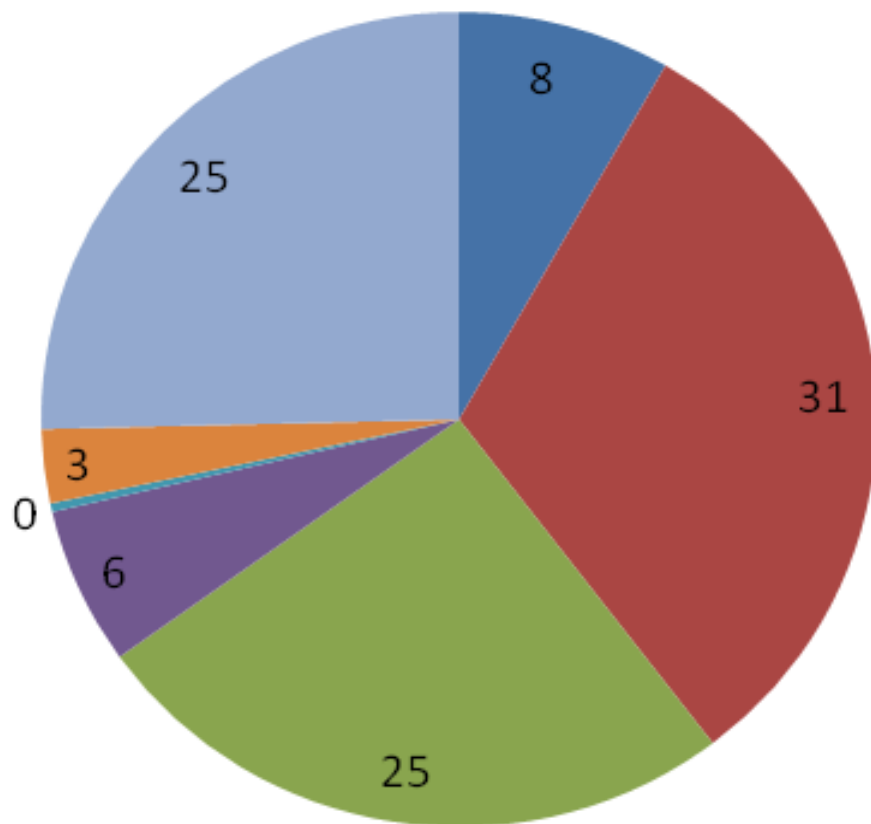
Annual Yield & Max. Discharge.



## GW Recharge Trend

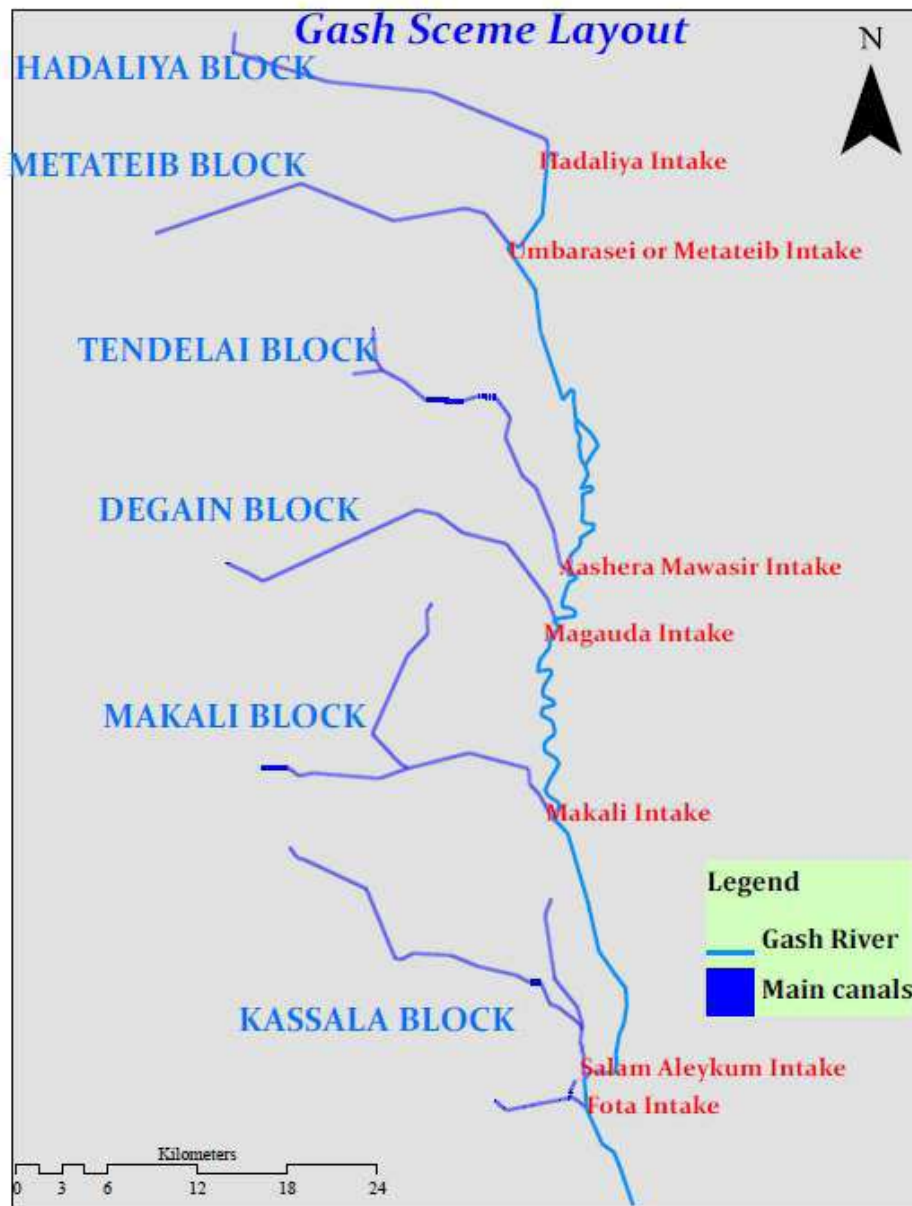


## SW/GW Relationship



- North Sawagi
- South Sawagi, sabeel and including western area
- Upstream area
- Down stream
- Delta area
- Drinking wells (western area)

## Annual GW Abstraction





# Group Meeting

**MEETING DATE** : 03 MARCH 2016 TIME: 19:00  
@NAIROBI SAFARI CLUB

**ATTENDEES** :

- Frank
- Karee
- Omer
- El Hadi
- Ahmed
- Abu Obieda

# Key Issues

- Selection of Massgas (Kassala & Hadalya Blocks);
- Delay in Land preparation (trees removal & land leveling);
- Machinery & equipment availability;
- Sedimentation in front of Diverging Structure (e.g. Fota off-take);
- Trees plantation.

# Opportunities

- **Gash River Training Unit and GASA owned some machineries & equipment;**
- **WUA members are willing to pay.**
- **Dr. Kareem promised to avail few tree seeds for piloting.**

# Proposed Activities

- HRC in collaboration with WUA & GASA committed to select  
Massgas;
- Organize consultative workshop;
- ... etc.



*Thanks*

Tuesday, March 22, 2016