

Upper part (group 1, weir 1& 2) : 19 Oct. to 2 Aug. (288 day), irrigate 4,325 hectare (27%).

Middle part (group 2, weir 3& 4): 3 Aug. to 13 Sept. (42 day), irrigate 9,165 hectare (60%).

Lower part (group 3, weir 5): 14 Spet. to 18 Oct. (35 day), irrigate 1305 hectare (8%).

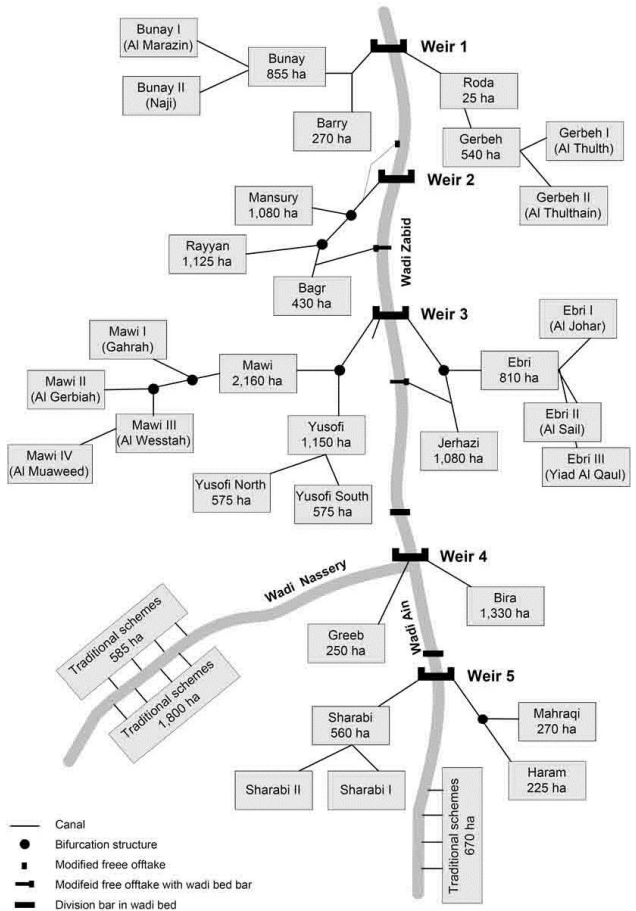
(Tipton, etal, 1974)

- The dry season, there are base flows: 1 Jan. to 28 Mar.& 19 Oct. to 30 Dec. (161day).
- The rainy season, when the floods come: 29 Mar. to 28 Oct. (204 day).

What exceed on the needs of these groups will go downstream areas to reach to Red Sea, about 50 km from the foothills (from the first weir).

GROUP I CANALS						GROUP II CANALS						GROUP III CANALS					
Name	Bank	Capacity m ³ /s	Length km	Irrigable Area-ha.		Name	Bank	Capacity m ³ /s	Length km	Irrigable Area-ha.		Name	Bank	Capacity m ³ /s	Length km	Irrigable Area-ha.	
				Gross	Net					Gross	Net					Gross	Net
Roda	L	2.0	2.8	30	25	Mawi	R	100.0	14.7	2400	2160	Sharabi	R	20.0	7.3	625	560
Bunay - Barry	R	11.0	9.8	1250	1125	Ebry	L	60.0	5.6	900	810	Mahraqi	L	15.0	6.6	300	270
Mansury	R	60.0	10.4	1200	1080	Yusfi	R	110.0	10.1	1275	1150	Haram	L	40.0	5.8	250	225
Gerbeh	L	2.5	3.4	600	540	Gerhazi	L	50.0	9.8	1200	1080	Wadi Ain	L	-	-	275	250
Rayyan	R	65.0	14.2	1250	1125	Gerbeh	C	2.5	3.4	275	250	Total - Group III	-	75.0	19.7	1450	1305
Bagr	R	70.0	7.6	475	430	Bira	L	110.0	10.4	1475	1330	Wadi Bed	-	-	-	470	420
Total - Group I	-	210.5	48.2	4805	4325	Wadi Nosery	R	-	-	2650	2385	Grand Total	-	718.0	121.9	16,900	15,215
						Total - Group II	-	432.5	94.0	10,175	9165						

If we compare the irrigated areas with new references (IIP, 2005), the result will be the same except group3



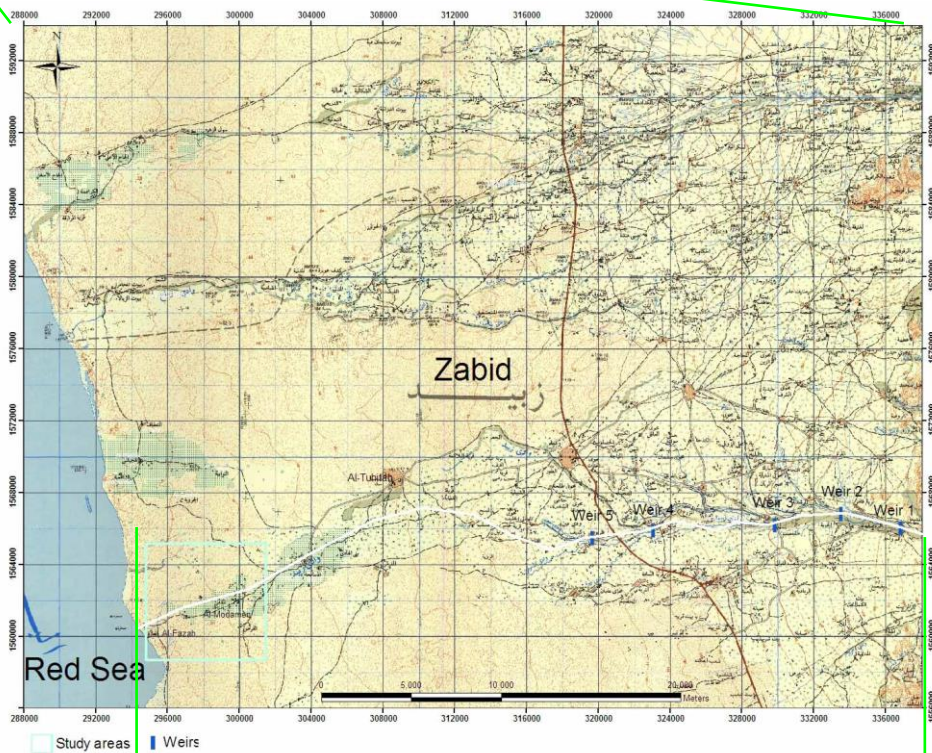
Group1= 4325ha
 Group2= 9165ha
 Group3= 1725ha

References:

- 1- Tipton and Kalmbach, 1974, **Proposed Plan for Water Allocation**, Wadi Zabid Irrigation Project, Tihama Development Authority, Hodidah, Yemen& Denver Colotado, U.S.A.



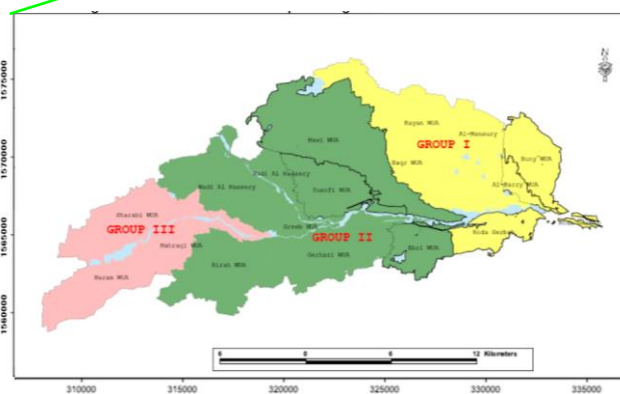
A



B



C



GROUP I CANALS					
Name	Bank	Capacity m ³ /s	Length km	Irrigable Area-ha.	
				Gross	Net
Rada	L	2.0	2.8	3.0	2.5
Buney-Barry	R	11.0	9.8	1250	1125
Mansury	R	80.0	10.4	1200	1080
Gerbeh	L	2.5	3.4	600	540
Rayyan	R	65.0	14.2	1250	1125
Bagr	R	70.0	7.6	475	430
Total-Group I		210.5	48.2	4805	4325

GROUP II CANALS					
Name	Bank	Capacity m ³ /s	Length km	Irrigable Area-ha.	
				Gross	Net
Mawi	R	100.0	14.7	2400	2160
Ebry	L	60.0	5.6	900	810
Yasfi	R	110.0	10.1	1275	1150
Gerhazi	L	50.0	9.8	1200	1080
Gereb	C	2.5	3.4	275	250
Bird	L	110.0	10.4	1475	1330
Wadi Nasery	R	—	—	2650	2385
Total-Group II		432.5	54.0	10,175	9165

GROUP III CANALS					
Name	Bank	Capacity m ³ /s	Length km	Irrigable Area-ha.	
				Gross	Net
Sherabi	R	20.0	7.3	625	560
Mahraqi	L	15.0	6.6	300	270
Haram	L	40.0	5.8	250	225
Wadi Ain	L	—	—	275	250
Total-Group III		75.0	19.7	1450	1305
Wadi Bed	—	—	—	470	420
Grand Total		718.0	121.9	16,900	15,215

A: topographic map shows the location of the study area and the diversion structures, part of Zabid sheet no. D38-39 (1:100,000), SA, 1986. B: Elevation profile along of Wadi Zabid from the foothills to Red Sea, 48km (Google Earth). C: Water allocation of Wadi Zabid within the three group in the upper part of Wadi Zabid (Tipton, etal, 1975)