

Table1: Characteristics of the Rainfall Stations with Effective Area for Disi Basin according to Theisen Polygon

Station ID	Station Name	Palestine North	Palestine East	Altitude	Rainfall	Area (m ²)	Area (km ²)	Area of Effective Rainfall
ED0004	QUWEIRA EVAP.ST	914.00	181.00	800.00	55.03			
ED0023	QA'EL-GHAL	882.40	208.00	910.00	18.64	402,488,144.52	402.49	1.36
ED0022	WADI MUQUR	872.00	193.00	1,000.00	42.64	768,644,307.50	768.64	5.96
ED0021	WADI SABIT	872.00	173.00	850.00	29.06	57,096,474.21	57.10	0.30
ED0020	QA'KHREIM	882.00	220.00	830.00	17.34	2,283,857,071.98	2,283.86	7.20
ED0019	WADI ARADA	899.00	225.00	920.00	22.42	886,661,522.22	886.66	3.61
ED0018	WADI MAS'ADA	896.00	177.00	850.00	30.44	62,202,392.78	62.20	0.34
ED0017	WADI NASIF	902.00	209.00	850.00	16.15	432,423,105.04	432.42	1.27
ED0016	WADI RATMA	915.00	193.00	900.00	30.30	434,342,154.77	434.34	2.39
ED0015	FASSU'A ST.	908.50	236.20	1,150.00	20.62			
ED0002	RAS EN-NAQB	935.00	197.00	1,570.00	122.27	173,011,296.11	173.01	3.85
G 0003	MA'AN	956.50	221.00	1,080.00	42.31			
G 0009	UDRUH EVAP.ST	973.60	206.30	1,350.00	150.05			
G 0007	MA'AN RAIL WAY STATION	954.00	223.00	1,006.00	40.40			
ED0001	AQABA	881.50	150.00	40.00	22.70			
TOTAL						5500726469	5500.72647	26.3
						144.60346	Rainfall Volume (MCM)	
Assumption 2						30 MCM Recharge	0.20746391	Annual Runoff Coefficient
Assumption 2						50 MCM Recharge	0.34577319	(It seems too high)
Assumption 3						10 MCM Recharge	0.06915464	Annual Runoff Coefficient (It seems reasonable)

Table 2: Annual Rainfall For Stations

Station ID	Station Name	Palestine North	Palestine East	Altitude	Rainfall	1991/1992	1992/1993	1993/1994	1994/1995	1995/1996	1996/1997	1997/1998	1998/1999	1999/2000	2000//2001	2001//2002
ED0001	AQABA	881.5	150	40	22.70	20.675	52.500	52.000	6.200	2.100	41.300	3.000	30.900	14.200	16.200	8.600
ED0002	RAS EN-NAQB	935	197	1570	122.27	65.100	51.000	56.600	103.100	16.400	16.800	299.900	164.000	120.100	207.700	244.300
ED0004	QUWEIRA EVAP.ST	914	181	800	55.03	49.100	22.500	112.200	36.300	42.329	141.187	191.985	40.193	93.278	64.667	143.422
ED0015	FASSU'A ST.	908.5	236.2	1150	20.62	11.600	3.600	54.800	32.200	7.200	27.400	26.000	7.000	4.600	37.400	15.000
ED0016	WADI RATMA	915	193	900	30.30	0.000	0.000	96.600	72.600	26.400	30.600	3.600	22.133	13.600	39.600	20.000
ED0017	WADI NASIF	902	209	850	16.15	46.000	20.000	0.000	0.000	0.000	15.000	43.400	8.000	2.000	28.400	14.800
ED0018	WADI MAS'ADA	896	177	850	30.44	28.000	13.200	90.400	59.800	24.000	14.000	47.000	11.000	2.000	35.774	15.000
ED0019	WADI ARADA	899	225	920	22.42	25.600	8.000	49.600	24.800	8.000	18.000	47.600	20.000	5.600	24.400	15.000
ED0020	QA'KHREIM	882	220	830	17.34	13.000	4.400	27.000	13.000	3.800	14.800	53.600	13.000	20.000	20.378	10.800
ED0021	WADI SABIT	872	173	850	29.06	26.000	13.000	74.200	73.000	21.000	12.600	42.200	16.400	1.000	34.152	11.200
ED0022	WADI MUQUR	872	193	1000	42.64	33.200	24.800	93.400	64.800	41.600	18.200	46.400	47.600	29.000	44.000	26.000
ED0023	QA'EL-GHAL	882.4	208	910	18.64	13.000	7.700	51.600	18.900	9.400	14.000	27.800	13.616	6.000	26.000	12.000
G 0003	MA'AN	956.5	221	1080	42.31	38.536	48.900	99.900	22.900	47.800	103.100	5.100	22.400	15.000	25.800	32.200
G 0007	MA'AN RAIL WAY STATION	954	223	1006	40.40	36.796	53.600	92.800	28.300	27.600	59.800	43.800	18.100	16.100	41.900	22.000
G 0009	UDRUH EVAP.ST	973.6	206.3	1350	150.05	136.665	122.400	263.700	48.600	217.500	229.300	264.900	85.000	57.800	71.000	140.300

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Table 3: Characteristics of the Rainfall Stations with Effective Area for Disi Basin according to Isohytal Lines

Station ID	Station Name	Rainfall	Area (m ²)	Area (km ²)	1991/1992	1992/1993	1993/1994	1994/1995	1995/1996	1996/1997	1997/1998	1998/1999	1999/2000	2000//2001	2001//2002	Area of Effective Rainfall
ED0015	FASSU'A ST.	20.62	594481523	10.80733	11.6	3.6	54.8	32.2	7.2	27.4	26	7	4.6	37.4	15	
ED0016	WADI RATMA	30.30	607353451	11.04133	0	0	96.6	72.6	26.4	30.6	3.6	22.13264	13.6	39.6	20	
ED0017	WADI NASIF	16.15	432423105	7.8612	46	20	0	0	0	15	43.4	8	2	28.4	14.8	
ED0018	WADI MAS'ADA	30.44	62202392.8	1.130803	28	13.2	90.4	59.8	24	14	47	11	2	35.77396	15	
ED0019	WADI ARADA	22.42	292179999	5.311662	25.6	8	49.6	24.8	8	18	47.6	20	5.6	24.4	15	
ED0020	QA'KHREIM	17.34	2283857072	41.51919	13	4.4	27	13	3.8	14.8	53.6	13	20	20.37846	10.8	
ED0021	WADI SABIT	29.06	57096474.2	1.037981	26	13	74.2	73	21	12.6	42.2	16.4	1	34.15214	11.2	
ED0022	WADI MUQUR	42.64	768644308	13.97351	33.2	24.8	93.4	64.8	41.6	18.2	46.4	47.6	29	44	26	
ED0023	QA'EL-GHAL	18.64	402488145	7.317	13	7.7	51.6	18.9	9.4	14	27.8	13.61559	6	26	12	
		TOTAL	5500726469	100	17.804	8.526123	49.05236	30.08244	12.68585	18.47663	40.88913	18.23123	15.28161	29.2137	15.07067	23.2
127.67 Rainfall Volume																
Assumption 1 0.235 Annual Runoff 50 MCM																
Assumption 2 0.3916 Coefficient 50 MCM																
Assumption 3 0.0783 Annual Runoff Coefficient 10 MCM Recharge																

