

06-21-1994 01:32:39

Water Allocation System (WAS v1.0)  
Developed by: The Harvard Middle East Water Project

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2010 - Middle Palestinian Growth Scenario

Scenario CURRENT+: Current Links and Recycling with Jordan River Links

Quota File: qta.inc 6 files Jordan Valley AGR

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 PRICES

ISRAEL

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Hacola	0.386	0.270	0.69	0.69	0.27
Kinneret	0.386	0.270	0.69	0.69	0.27
WestGalil	0.411	0.288	0.71	0.71	0.29
Haifa	0.457	0.320	0.76	0.76	0.32
Afula	0.466	0.326	0.77	0.77	0.33
Hadera	0.481	0.337	0.78	0.78	0.34
Netanya	0.476	0.333	0.78	0.78	0.33
PTiqwa	0.523	0.366	0.82	0.82	0.37
TelAviv	0.534	0.129	0.78	0.78	0.12
Ramla	0.514	0.360	0.81	0.81	0.36
Rehovot	0.496	0.347	0.80	0.80	0.35
Lachish	0.780	0.176	1.08	1.08	0.18
Negev	0.837	0.586	1.14	1.14	0.59

JORDAN

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
JordanV	0.466	0.009	0.77	0.00	0.01
NHighland	0.459	0.459	0.52	0.00	0.46
Amman	1.287	0.465	1.35	0.00	0.64
DeadSea	0.330	0.330	0.63	0.00	0.33
Azraq	0.041	0.041	0.34	0.00	0.04
WadiAraba	0.800	0.800	1.10	0.00	0.80
MaanDisi	0.672	0.672	0.97	0.00	0.67
Hammad	0.132	0.132	0.43	0.00	0.13

PALESTINE

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Jenin	0.492	0.492	0.79	0.79	0.49
Tulkarem	0.493	0.493	0.79	0.79	0.49
Nablus	0.532	0.532	0.83	0.83	0.53

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Ramallah	0.534	0.534	0.83	0.83	0.53
Bethlehem	0.732	0.732	1.03	1.03	0.73
Hebron	0.831	0.831	1.13	1.13	0.83
GazaN	0.800	0.800	1.10	1.10	0.80
GazaS	0.800	0.800	1.10	1.10	0.80
Jericho	0.290	0.290	0.59	0.59	0.29

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GOLAN

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DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Golan	0.362	0.362	0.66	0.66	0.36

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JERUSALEM

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DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Jerusalem	0.532	0.100	0.83	0.83	0.14

Net Price of water in dispute in the Sea of Galilee is 0.386  
Average Net Price of water in dispute in the mountain aquifer is 0.313



FIXED INDUSTRIAL DEMAND AT JORDAN  
 Year: 2010 - Middle Palestinian Growth Scenario  
 Scenario CURRENT+: Current Links and Recycling with Jordan River Links  
 Quota File: qta.inc 6 files Jordan Valley AGR

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 QUANTITIES

ISRAEL

DISTRICT	PRODN	NET.EXP	URBDEM	INDDM	AGRDEM
Hacola	80.00	-16.05	12.14	1.49	82.43
Kinneret	560.00	489.35	12.14	0.77	57.73
WestGalil	142.45	40.28	55.98	2.29	43.91
Haifa	183.00	-2.05	45.45	3.39	136.21
Afula	40.00	-57.11	73.23	13.64	10.25
Hadera	7.00	-96.44	31.27	7.40	64.76
Netanya	222.00	112.77	37.50	1.60	70.14
PTiqwa	40.00	-61.10	58.74	1.12	41.23
TelAviv	8.00	-172.10	173.97	5.24	7.86
Ramla	124.89	73.64	19.38	2.69	29.17
Rehovot	243.00	146.07	47.24	4.07	45.61
Lachish	59.00	4.39	35.48	2.09	128.35
Negev	44.85	-122.65	49.43	21.99	96.08
TOTAL	1754.19	339.00	651.96	67.79	813.73

JORDAN

DISTRICT	PRODN	NET.EXP	URBDEM	INDDM	AGRDEM
JordanV	136.00	-353.53	12.43	0.00	477.10
NHighland	225.00	57.73	45.44	0.50	151.65
Amman	149.50	-74.00	164.88	24.30	159.18
DeadSea	90.60	15.00	19.98	49.75	5.88
Azraq	30.13	28.00	2.13	0.00	0.00
WadiAraba	131.79	0.00	10.16	0.60	121.02
MaanDisi	124.00	0.00	2.72	21.20	100.08
Hammad	0.31	0.00	0.31	0.00	0.00
TOTAL	887.33	-326.80	258.05	96.35	1014.91

PALESTINE



DISTRICT	PRODN	NET.EXP	URBDEM	INDEM	AGRDEM
Jenin	65.41	-39.76	44.32	0.68	60.16
Tulkarem	37.33	-23.33	45.54	2.21	12.91
Nablus	39.97	-27.39	51.40	2.51	13.46
Ramallah	31.37	-26.84	51.07	1.67	5.46
Bethlehem	53.67	17.85	29.58	1.87	4.37
Hebron	62.20	-7.35	54.36	4.43	10.77
GazaN	208.71	107.77	82.91	2.69	15.35
GazaS	96.65	0.00	76.66	2.69	17.30
Jericho	61.14	19.57	6.20	0.38	34.99
TOTAL	656.44	20.52	442.04	19.12	174.77

GOLAN

DISTRICT	PRODN	NET.EXP	URBDEM	INDEM	AGRDEM
Golan	40.00	11.38	4.25	0.18	24.18

JERUSALEM

DISTRICT	PRODN	NET.EXP	URBDEM	INDEM	AGRDEM
Jerusalem	50.00	-44.10	90.72	0.33	30.42

FIXED INDUSTRIAL DEMAND AT JORDAN

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 RECYCLED QUANTITIES

ISRAEL

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Hacola	0.00	0.00	0.00	0.00	0.00
Kinneret	0.00	0.00	0.00	0.00	0.00
WestGalil	0.00	0.00	0.00	0.00	0.00
Haifa	0.00	0.00	0.00	0.00	0.00
Afula	0.00	0.00	0.00	0.00	0.00
Hadera	0.00	0.00	0.00	0.00	0.00
Netanya	0.00	0.00	0.00	0.00	0.00
PTiqwa	0.00	0.00	0.00	0.00	0.00
TelAviv	114.82	3.46	0.00	6.97	111.31
Ramla	0.00	0.00	0.00	0.00	0.00
Rehovot	0.00	0.00	0.00	0.00	0.00
Lachish	0.00	0.00	0.00	111.31	-111.31
Negev	0.00	0.00	0.00	0.00	0.00
TOTAL	114.82	3.46	0.00	118.28	0.00

JORDAN

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
JordanV	0.00	0.00	0.00	0.00	0.00
NHighland	29.99	0.33	0.00	30.32	0.00
Amman	108.82	16.04	0.00	124.86	0.00
DeadSea	0.00	0.00	0.00	0.00	0.00
Azraq	0.00	0.00	0.00	0.00	0.00
WadiAraba	0.00	0.00	0.00	0.00	0.00
MaanDisi	0.00	0.00	0.00	0.00	0.00
Hammad	0.00	0.00	0.00	0.00	0.00
TOTAL	138.81	16.37	0.00	155.18	0.00

PALESTINE



DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Jenin	0.00	0.00	0.00	0.00	0.00
Tulkarem	0.00	0.00	0.00	0.00	0.00
Nablus	0.00	0.00	0.00	0.00	0.00
Ramallah	0.00	0.00	0.00	0.00	0.00
Bethlehem	0.00	0.00	0.00	0.00	0.00
Hebron	0.00	0.00	0.00	0.00	0.00
GazaN	0.00	0.00	0.00	0.00	0.00
GazaS	0.00	0.00	0.00	0.00	0.00
Jericho	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00

GOLAN

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Golan	0.00	0.00	0.00	0.00	0.00

JERUSALEM

DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
Jerusalem	27.38	0.00	0.00	27.38	0.00

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2010 - Middle Palestinian Growth Scenario

"Optimal" Scenario

Scenario CURRENT+: Current Links and Recycling with Jordan River Links

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 SOCIAL WELFARE RESULTS

ISRAEL

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Hacola	14.880	9.545	74.795	89.675
Kinneret	216.159	6.685	55.702	271.862
WestGalil	27.325	5.414	91.958	119.283
Haifa	25.058	18.666	153.989	179.047
Afula	11.896	1.432	98.552	110.448
Hadera	2.206	9.347	90.823	93.029
Netanya	70.710	10.016	93.534	164.244
PTiqwa	12.872	6.467	91.932	104.804
TelAviv	1.071	0.047	184.493	185.564
Ramla	39.116	4.499	45.553	84.668
Rehovot	46.286	6.792	87.675	133.961
Lachish	30.231	1.311	119.619	149.849
Negev	19.503	24.140	154.729	174.232
TOTAL	517.313	104.361	1343.353	1860.666

JORDAN

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
JordanV	45.424	218.035	147.059	192.483
NHighland	45.825	0.229	247.081	292.906
Amman	162.316	31.277	338.825	501.141
DeadSea	9.405	16.418	32.741	42.146
Azraq	1.107	0.000	2.166	3.273
WadiAraba	13.132	0.480	185.670	198.802
MaanDisi	68.597	14.253	147.275	215.872
Hammad	0.000	0.000	0.321	0.321
TOTAL	345.805	280.692	1101.138	1446.943

PALESTINE



DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Jenin	12.146	0.000	125.667	137.813
Tulkarem	10.160	0.000	65.409	75.569
Nablus	11.672	0.000	72.325	83.997
Ramallah	8.768	0.000	59.994	68.762
Bethlehem	21.304	0.000	36.865	58.168
Hebron	31.698	0.000	72.130	103.829
GazaN	23.400	0.000	103.693	127.093
GazaS	16.900	0.000	100.664	117.564
Jericho	8.364	0.000	47.809	56.173
TOTAL	144.412	0.000	684.557	828.969

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GOLAN

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DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Golan	6.480	0.000	34.696	41.176

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JERUSALEM

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DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Jerusalem	6.580	0.000	113.392	119.972

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 TRANSPORT OF FRESH WATER

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LINKAGES USED AND QUANTITIES TRANSPORTED

FROM	TO	QTY. TRANSPORTED
Golan	NC-Golan	11.38
Kinneret	NC-SeaOfGal	489.35
WestGalil	NC-WestGalil	40.28
Netanya	NC-Hadera	112.77
Ramla	NC-Ramla	73.64
Rehovot	NC-Rehovot	146.07
Lachish	NC-Lachish	4.39
JordanV	Amman	45.00
NHighlands	JordanV	71.73
DeadSea	Amman	15.00
Azraq	NHighlands	14.00
Azraq	Amman	14.00
Bethlehem	NC-Bethlehem	17.85
GazaN	NC-GazaN	107.77
Jericho	NC-SeaOfGal	19.57
NC-Hacola	Hacola	16.05
NC-Golan	NC-Hacola	16.05
NC-SeaOfGal	JordanV	326.80
NC-SeaOfGal	NC-Golan	4.67
NC-SeaOfGal	NC-WestGalil	177.45
NC-WestGalil	NC-Haifa	217.73
NC-Haifa	Haifa	2.05
NC-Haifa	NC-Afula	215.68
NC-Afula	Afula	57.11
NC-Afula	NC-Netanya	158.57
NC-Hadera	NC-Tulkarem	135.14
NC-Netanya	Hadera	96.44
NC-Netanya	NC-Jenin	62.13
NC-PTiqwa	PTiqwa	61.10
NC-PTiqwa	NC-TelAviv	23.32
NC-TelAviv	TelAviv	172.10
NC-Ramla	NC-TelAviv	148.78
NC-Rehovot	NC-Jerusalem	44.10
NC-Rehovot	NC-Ramallah	101.97
NC-Jerusalem	Jerusalem	44.10
NC-Lachish	NC-Hebron	22.24

U10



NC-Negev	Negev	122.65
NC-Jenin	Jenin	39.76
NC-Jenin	NC-Hadera	22.38
NC-Tulkarem	Tulkarem	23.33
NC-Tulkarem	NC-Nablus	111.81
NC-Nablus	Nablus	27.39
NC-Nablus	NC-PTiqwa	84.42
NC-Ramallah	Ramallah	26.84
NC-Ramallah	NC-Ramla	75.14
NC-Bethlehem	NC-Lachish	17.85
NC-Hebron	Hebron	7.35
NC-Hebron	NC-Negev	14.88
NC-GazaN	NC-Negev	107.77

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SUBAMT("I3", "AGR") = 0 ;  
SUBRATE("I4", "AGR") = 30 ;  
SUBAMT("I4", "AGR") = 0 ;  
SUBRATE("I5", "AGR") = 30 ;  
SUBAMT("I5", "AGR") = 0 ;  
SUBRATE("I6", "AGR") = 30 ;  
SUBAMT("I6", "AGR") = 0 ;  
SUBRATE("I7", "AGR") = 30 ;  
SUBAMT("I7", "AGR") = 0 ;  
SUBRATE("I8", "AGR") = 30 ;  
SUBAMT("I8", "AGR") = 0 ;  
SUBRATE("I9", "AGR") = 30 ;  
SUBAMT("I9", "AGR") = 0 ;  
SUBRATE("I10", "AGR") = 30 ;  
SUBAMT("I10", "AGR") = 0 ;  
SUBRATE("I11", "AGR") = 30 ;  
SUBAMT("I11", "AGR") = 0 ;  
SUBRATE("I12", "AGR") = 30 ;  
SUBAMT("I12", "AGR") = 0 ;  
SUBRATE("I14", "AGR") = 30 ;  
SUBAMT("I14", "AGR") = 0 ;  
SUBRATE("I15", "AGR") = 30 ;  
SUBAMT("I15", "AGR") = 0 ;

06-21-1994 01:32:35

OPTIMAL GAMS RESULTS FOR WAS.GMS  
TRANSPORT OF RECYCLED WATER

=====

LINKAGES USED AND QUANTITIES TRANSPORTED

FROM	TO	QTY. TRANSPORTED
TelAviv	Lachish	111.31



Water Allocation System (WAS v1.0)  
 Developed by: The Harvard Middle East Water Project

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2010 - Middle Palestinian Growth Scenario

Scenario CURRENT+: Current Links and Recycling with Jordan River Links

Quota File: qta.inc 6 files Jordan Valley AGR

```

SUBRATE("I1", "AGR") = 30 ;
SUBAMT("I1", "AGR") = 0 ;
SUBRATE("I3", "AGR") = 30 ;
SUBAMT("I3", "AGR") = 0 ;
SUBRATE("I4", "AGR") = 30 ;
SUBAMT("I4", "AGR") = 0 ;
SUBRATE("I5", "AGR") = 30 ;
SUBAMT("I5", "AGR") = 0 ;
SUBRATE("I6", "AGR") = 30 ;
SUBAMT("I6", "AGR") = 0 ;
SUBRATE("I7", "AGR") = 30 ;
SUBAMT("I7", "AGR") = 0 ;
SUBRATE("I8", "AGR") = 30 ;
SUBAMT("I8", "AGR") = 0 ;
SUBRATE("I9", "AGR") = 30 ;
SUBAMT("I9", "AGR") = 0 ;
SUBRATE("I10", "AGR") = 30 ;
SUBAMT("I10", "AGR") = 0 ;
SUBRATE("I11", "AGR") = 30 ;
SUBAMT("I11", "AGR") = 0 ;
SUBRATE("I12", "AGR") = 30 ;
SUBAMT("I12", "AGR") = 0 ;
SUBRATE("I14", "AGR") = 30 ;
SUBAMT("I14", "AGR") = 0 ;
SUBRATE("I15", "AGR") = 30 ;
SUBAMT("I15", "AGR") = 0 ;
    
```

06-21-1994 01:32:34

OPTIMAL GAMS RESULTS FOR WAS.GMS  
 DISPUTED QUANTITIES: MOUNTAIN AQUIFER

DISTRICT	SOURCE	QTY. PUMPED	MAX. QTY
Afula	S1	32.00	32.00
Afula	S2	8.00	8.00
Afula	S3	0.00	40.00
Hadera	S1	7.00	7.00
Hadera	S2	0.00	11.00
Netanya	S2	132.00	132.00
Netanya	S3	0.00	37.00
Ramla	S1	124.89	150.00
Lachish	S3	0.00	57.00
Negev	S3	12.85	25.00
Jenin	S4	51.17	98.33
Tulkarem	S3	6.68	6.68
Tulkarem	S4	6.36	134.95
Nablus	S4	20.56	20.56
Ramallah	S4	0.00	128.57
Bethlehem	S3	28.79	28.79
Hebron	S2	9.62	9.62
Hebron	S3	46.68	46.68