

06-21-1991 01:11:24

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

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2020 - High Palestinian Growth Scenario

Scenario PLAUSIBLE+: Plausible+ Links and Recycling

Quota File: qta.inc 6 files Jordan Valley AGR

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I1

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 PRICES

ISRAEL

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Hacola	0.591	0.148	0.89	0.89	0.15
Kinneret	0.591	0.148	0.89	0.89	0.15
WestGalil	0.616	0.154	0.92	0.92	0.15
Haifa	0.662	0.166	0.59	0.59	0.14
Afula	0.671	0.168	0.97	0.97	0.17
Hadera	0.686	0.172	0.99	0.99	0.17
Netanya	0.681	0.170	0.60	0.60	0.13
PTiqwa	0.728	0.182	1.03	1.03	0.18
TelAviv	0.739	0.082	0.89	0.89	0.04
Ramla	0.719	0.180	1.02	1.02	0.18
Rehovot	0.702	0.175	1.00	1.00	0.18
Lachish	0.800	0.099	0.91	0.91	0.04
Negev	0.838	0.065	1.03	1.03	0.03

JORDAN

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
JordanV	0.671	0.009	0.97	0.00	0.01
NHighland	0.664	0.664	0.59	0.00	0.66
Amman	0.822	0.666	0.75	0.00	0.71
DeadSea	0.805	0.805	1.11	0.00	0.81
Azraq	0.684	0.684	0.98	0.00	0.68
WadiAraba	0.800	0.800	1.10	0.00	0.80
MaanDisi	0.693	0.693	0.99	0.00	0.69
Hammad	0.132	0.132	0.43	0.00	0.13

PALESTINE

DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Jenin	0.697	0.697	1.00	1.00	0.70
Tulkarem	0.698	0.698	1.00	1.00	0.70
Nablus	0.737	0.100	1.04	1.04	0.16

Ramallah	0.739	0.504	0.77	0.77	0.56
Bethlehem	0.850	0.100	1.15	1.15	0.17
Hebron	0.851	0.100	1.15	1.15	0.18
GazaN	0.800	0.221	1.02	1.02	0.31
GazaS	0.800	0.200	1.03	1.03	0.28
Jericho	0.495	0.105	0.80	0.80	0.14

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GOLAN

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DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Golan	0.567	0.567	0.87	0.87	0.57

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JERUSALEM

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DISTRICT	FPRICE	RPRICE	PURB	PIND	PAGR
Jerusalem	0.673	0.100	0.97	0.97	0.16

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Net Price of water in dispute in the Sea of Galilee is 0.591  
Average Net Price of water in dispute in the mountain aquifer is 0.487

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 QUANTITIES

ISRAEL

DISTRICT	PRODN	NET.EXP	URBDEM	INDDM	AGRDEM
Hacola	80.00	-46.33	13.37	1.53	111.44
Kinneret	645.00	552.78	13.41	0.76	78.06
WestGalil	150.00	25.75	61.93	2.32	60.00
Haifa	183.00	-26.58	55.53	4.06	189.32
Afula	40.00	-69.54	81.23	14.03	14.29
Hadera	7.00	-126.06	34.70	7.64	90.73
Netanya	222.00	107.58	46.01	1.99	98.11
PTiqwa	40.00	-84.97	65.36	1.14	58.47
TelAviv	8.00	-195.52	197.01	5.61	9.87
Ramla	150.00	84.37	21.56	2.81	41.26
Rehovot	243.00	122.10	52.52	4.19	64.20
Lachish	119.32	57.13	42.72	2.44	171.59
Negev	44.85	-62.33	58.61	25.31	289.10
TOTAL	1932.17	338.36	743.93	73.82	1276.44

JORDAN

DISTRICT	PRODN	NET.EXP	URBDEM	INDDM	AGRDEM
JordanV	160.00	-218.08	18.80	0.00	477.10
NHighland	318.00	167.88	70.25	0.50	126.06
Amman	149.50	-212.80	293.98	34.00	132.96
DeadSea	279.00	160.60	28.30	86.33	3.76
Azraq	47.00	44.28	2.72	0.00	0.00
WadiAraba	137.73	0.00	16.11	0.60	121.02
MaanDisi	124.00	0.00	4.30	21.10	98.60
Hammad	0.50	0.00	0.50	0.00	0.00
TOTAL	1215.73	-58.11	434.96	142.53	959.52

PALESTINE

DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Jenin	65.40	-72.41	107.48	7.61	22.72
Tulkarem	37.32	-127.06	120.67	14.89	28.82
Nablus	39.97	-73.89	105.95	5.13	27.88
Ramallah	31.37	-86.15	96.50	2.17	83.97
Bethlehem	28.56	-42.69	62.84	5.80	26.04
Hebron	62.20	-14.44	74.74	1.90	0.00
GazaN	275.26	62.33	199.54	9.06	29.20
GazaS	197.84	0.00	183.92	9.02	34.60
Jericho	61.14	36.96	12.61	1.13	101.92
TOTAL	799.07	-317.35	964.24	56.71	355.15

GOLAN

DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Golan	40.00	15.76	4.70	0.22	19.32

JERUSALEM

DISTRICT	PRODN	NET.EXP	URBDEM	INDDEM	AGRDEM
Jerusalem	127.00	21.34	102.25	0.37	30.42

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 RECYCLED QUANTITIES

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ISRAEL

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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	36.65	2.68	0.00	39.33	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	30.36	1.31	0.00	31.68	0.00
PTiqwa	0.00	0.00	0.00	0.00	0.00
TelAviv	130.03	3.70	0.00	8.98	124.75
Ramla	0.00	0.00	0.00	0.00	0.00
Rehovot	0.00	0.00	0.00	0.00	0.00
Lachish	28.19	1.61	0.00	154.56	-124.75
Negev	38.68	16.70	0.00	265.84	-210.45
TOTAL	263.92	26.01	0.00	500.38	-210.45

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JORDAN

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DISTRICT	FrmURB	FrmIND	FrmAGR	ToAGR	NET.EXP
JordanV	0.00	0.00	0.00	117.82	-117.82
NHighland	46.36	0.33	0.00	46.69	0.00
Amman	194.03	22.44	0.00	98.64	117.82
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	240.39	22.77	0.00	263.16	0.00

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PALESTINE

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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	42.31	3.06	0.00	25.10	20.28
Ramallah	63.69	1.43	0.00	65.12	0.00
Bethlehem	41.48	3.83	0.00	23.44	21.87
Hebron	49.33	0.00	0.00	0.00	49.33
GazaN	131.69	5.98	0.00	24.86	112.82
GazaS	121.39	5.95	0.00	29.70	97.64
Jericho	0.00	0.00	0.00	91.47	-91.47
TOTAL	449.89	20.26	0.00	259.69	210.45

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

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

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2020 - High Palestinian Growth Scenario

"Optimal" Scenario

Scenario PLAUSIBLE+: Plausible+ Links and Recycling

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
 SOCIAL WELFARE RESULTS

ISRAEL

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Hacola	31.300	49.417	30.317	61.617
Kinneret	347.355	34.613	24.790	372.145
WestGalil	58.112	27.731	71.456	129.568
Haifa	62.619	62.874	91.711	154.330
Afula	20.106	7.191	98.263	118.369
Hadera	3.642	46.705	55.450	59.093
Netanya	116.275	25.720	66.148	182.423
Ptiqwa	21.082	31.925	71.626	92.708
TelAviv	2.713	0.094	201.504	204.217
Ramla	77.767	22.263	29.744	107.511
Rehovot	96.161	33.779	64.370	160.531
Lachish	31.393	2.150	76.652	108.045
Negev	19.503	2.215	133.293	152.797
TOTAL	888.030	346.678	1015.324	1903.354

JORDAN

DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
JordanV	77.064	179.172	152.784	229.848
NHighland	105.793	0.332	250.487	356.280
Amman	92.816	27.956	482.164	574.980
DeadSea	115.587	69.517	41.347	156.935
Azraq	31.340	0.000	2.616	33.955
WadiAraba	13.132	0.480	191.261	204.392
MaanDisi	71.114	14.614	147.278	218.392
Hammad	0.000	0.000	0.511	0.511
TOTAL	506.845	292.072	1268.448	1775.294

PALESTINE



DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Jenin	25.571	0.000	145.340	170.911
Tulkarem	17.821	0.000	176.045	193.866
Nablus	19.875	0.000	128.373	148.249
Ramallah	15.206	0.000	208.779	223.986
Bethlehem	14.809	0.000	85.180	99.989
Hebron	32.924	0.000	71.958	104.882
GazaN	23.400	0.000	231.450	254.850
GazaS	16.900	0.000	220.246	237.146
Jericho	20.913	0.000	94.448	115.361
TOTAL	187.419	0.000	1361.820	1549.239

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GOLAN

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DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Golan	14.690	0.000	31.603	46.293

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JERUSALEM

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DISTRICT	PROFITS	GOVT.COSTS	BUYR.SURP.	SOC.WEL
Jerusalem	21.356	0.000	122.028	143.384

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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	15.76
Kinneret	NC-SeaOfGal	552.78
WestGalil	NC-WestGalil	25.75
Netanya	NC-Hadera	107.58
Ramla	NC-Ramla	84.37
Rehovot	NC-Rehovot	122.10
Jerusalem	NC-Jerusalem	21.34
Lachish	NC-Lachish	57.13
NHighlands	JordanV	159.97
NHighlands	Azraq	7.92
DeadSea	Amman	160.60
Azraq	Amman	52.20
GazaN	NC-GazaN	62.33
Jericho	NC-SeaOfGal	36.96
NC-Hacola	Hacola	46.33
NC-Golan	NC-Hacola	46.33
NC-SeaOfGal	JordanV	58.11
NC-SeaOfGal	NC-Golan	30.58
NC-SeaOfGal	NC-WestGalil	501.04
NC-WestGalil	NC-Haifa	526.80
NC-Haifa	Haifa	26.58
NC-Haifa	NC-Afula	500.21
NC-Afula	Afula	69.54
NC-Afula	NC-Netanya	430.67
NC-Hadera	NC-Tulkarem	339.78
NC-Netanya	Hadera	126.06
NC-Netanya	NC-Jenin	304.61
NC-PTiqwa	PTiqwa	84.97
NC-PTiqwa	NC-TelAviv	53.86
NC-TelAviv	TelAviv	195.52
NC-Ramla	NC-TelAviv	141.66
NC-Rehovot	NC-Ramallah	143.43
NC-Jerusalem	NC-Rehovot	21.34
NC-Lachish	NC-Bethlehem	42.69
NC-Lachish	NC-Hebron	14.44
NC-Negev	Negev	62.33

NC-Jenin	Jenin	72.41
NC-Jenin	NC-Hadera	232.20
NC-Tulkarem	Tulkarem	127.06
NC-Tulkarem	NC-Nablus	212.72
NC-Nablus	Nablus	73.89
NC-Nablus	NC-PTiqwa	138.83
NC-Ramallah	Ramallah	86.15
NC-Ramallah	NC-Ramla	57.29
NC-Bethlehem	Bethlehem	42.69
NC-Hebron	Hebron	14.44
NC-GazaN	NC-Negev	62.33

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SUBAMT("I4", "AGR") = 0 ;  
SUBRATE("I5", "AGR") = 75 ;  
SUBAMT("I5", "AGR") = 0 ;  
SUBRATE("I6", "AGR") = 75 ;  
SUBAMT("I6", "AGR") = 0 ;  
SUBRATE("I7", "AGR") = 75 ;  
SUBAMT("I7", "AGR") = 0 ;  
SUBRATE("I8", "AGR") = 75 ;  
SUBAMT("I8", "AGR") = 0 ;  
SUBRATE("I9", "AGR") = 75 ;  
SUBAMT("I9", "AGR") = 0 ;  
SUBRATE("I10", "AGR") = 75 ;  
SUBAMT("I10", "AGR") = 0 ;  
SUBRATE("I11", "AGR") = 75 ;  
SUBAMT("I11", "AGR") = 0 ;  
SUBRATE("I12", "AGR") = 75 ;  
SUBAMT("I12", "AGR") = 0 ;  
SUBRATE("I14", "AGR") = 75 ;  
SUBAMT("I14", "AGR") = 0 ;  
SUBRATE("I15", "AGR") = 75 ;  
SUBAMT("I15", "AGR") = 0 ;

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OPTIMAL GAMS RESULTS FOR WAS.GMS  
TRANSPORT OF RECYCLED WATER

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LINKAGES USED AND QUANTITIES TRANSPORTED

FROM	TO	QTY. TRANSPORTED
TelAviv	Lachish	124.75
Amman	JordanV	117.82
Nablus	Jericho	20.28
Bethlehem	Jericho	21.87
Hebron	Jericho	49.33
GazaN	Negev	112.82
GazaS	Negev	97.64

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

FIXED INDUSTRIAL DEMAND AT JORDAN

Year: 2020 - High Palestinian Growth Scenario  
 Scenario PLAUSIBLE+: Plausible+ Links and Recycling  
 Quota File: qta.inc 6 files Jordan Valley AGR

SUBRATE("I1", "AGR") = 75 ;  
 SUBAMT("I1", "AGR") = 0 ;  
 SUBRATE("I3", "AGR") = 75 ;  
 SUBAMT("I3", "AGR") = 0 ;  
 SUBRATE("I4", "AGR") = 75 ;  
 SUBAMT("I4", "AGR") = 0 ;  
 SUBRATE("I5", "AGR") = 75 ;  
 SUBAMT("I5", "AGR") = 0 ;  
 SUBRATE("I6", "AGR") = 75 ;  
 SUBAMT("I6", "AGR") = 0 ;  
 SUBRATE("I7", "AGR") = 75 ;  
 SUBAMT("I7", "AGR") = 0 ;  
 SUBRATE("I8", "AGR") = 75 ;  
 SUBAMT("I8", "AGR") = 0 ;  
 SUBRATE("I9", "AGR") = 75 ;  
 SUBAMT("I9", "AGR") = 0 ;  
 SUBRATE("I10", "AGR") = 75 ;  
 SUBAMT("I10", "AGR") = 0 ;  
 SUBRATE("I11", "AGR") = 75 ;  
 SUBAMT("I11", "AGR") = 0 ;  
 SUBRATE("I12", "AGR") = 75 ;  
 SUBAMT("I12", "AGR") = 0 ;  
 SUBRATE("I14", "AGR") = 75 ;  
 SUBAMT("I14", "AGR") = 0 ;  
 SUBRATE("I15", "AGR") = 75 ;  
 SUBAMT("I15", "AGR") = 0 ;

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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	150.00	150.00
Lachish	S3	0.00	57.00
Negev	S3	12.85	25.00
Jenin	S4	51.16	98.33
Tulkarem	S3	6.68	6.68
Tulkarem	S4	6.35	134.95
Nablus	S4	20.56	20.56
Ramallah	S4	0.00	128.57
Bethlehem	S3	3.68	28.79
Hebron	S2	9.62	9.62
Hebron	S3	46.68	46.68