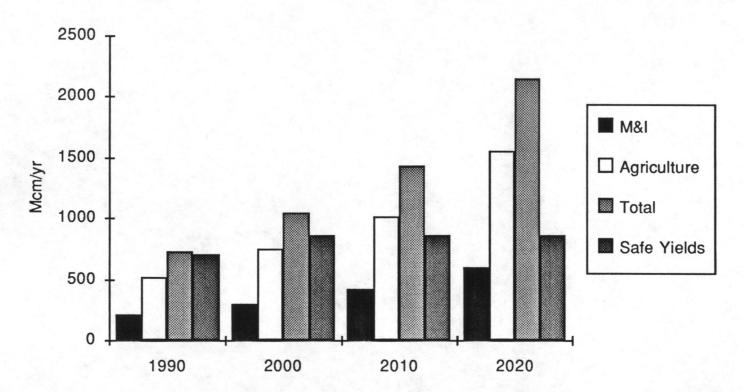
Water Supply and Demand in Jordan Basin (in Mcm/yr)

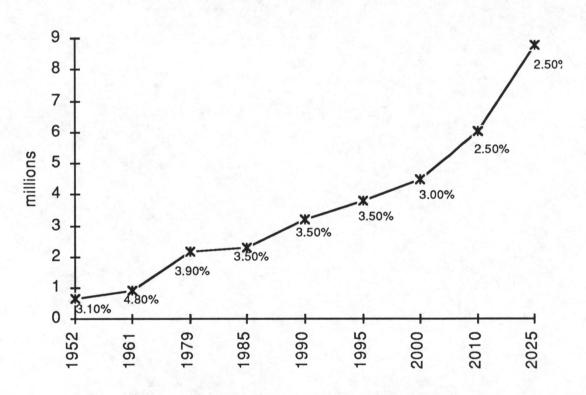
	1987-1991 Average Supply Non-Drought Conditions	Average Supply Current Drought Conditions	1987-1991 Average Total Demand	1987-1991 Average Deficits Non-Drought Conditions	Average Deficits Current Drought Conditions	Projected Demand 2015–2020
Israel	1950	1600	2100*	150–200	200	2500–2800
Jordan	900	700–750	800	100–125	100	1600–1800
Occupied Territories	650	450–550	600–650	750–800	100	**

^{*} Includes settlements in Occupied Territories and Golan Heights
** Future status indeterminate

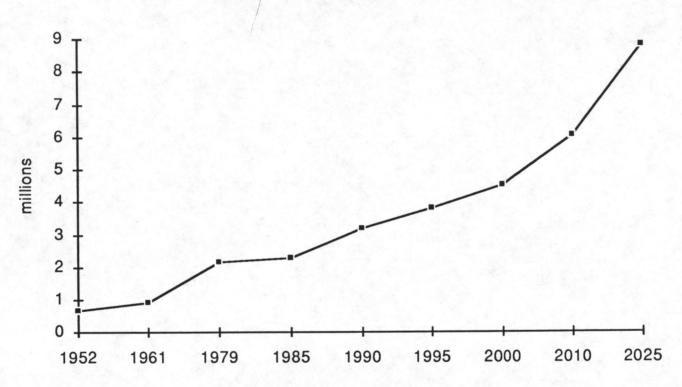
Projected Water Demand in Jordan by Sector (in Mcm/yr)



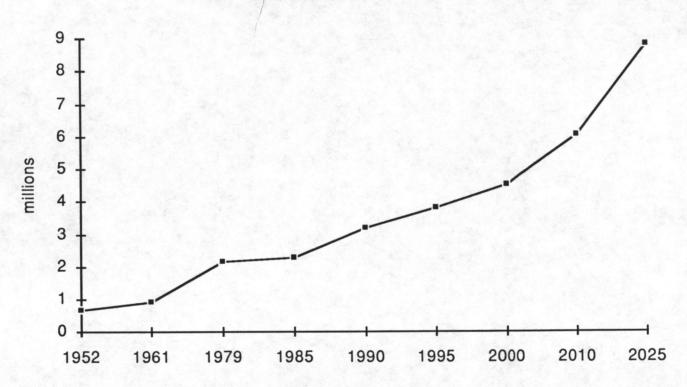
Jordanian Population Growth (in percentages)



Population Growth in Jordan (in millions)



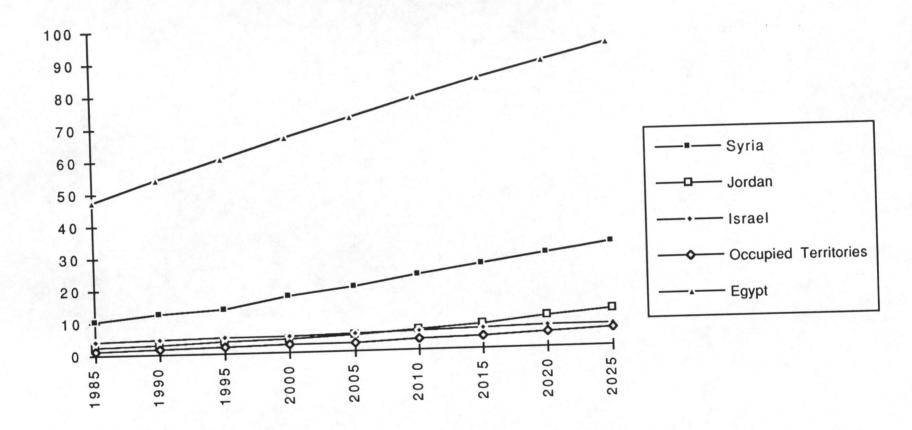
Population Growth in Jordan (in millions)



Israeli Balance of Trade in Agriculture (in millions of dollars)

			1989			1990	
		Import	Export	Balance	Import	Export	Balance
	Field crops	454.7	120.1	(334.6)	439.4	111.1	(328.3)
	Cotton	71.9	103.3	31.4	97.5	88.4	(9.1)
	Vegetables	17.7	63.0	45.3	23.3	97.2	73.9
	Garden products	2.6	138.9	136.3	3.5	165.2	161.7
Fresh	Citrus		131.7	131.7	_	180.5	180.5
Products	Other fruit	87.2	55.2	(32.0)	92.4	92.4	0.0
	Fish and seafood	47.6	4.3	(43.3)	54.2	6.6	(47.6)
	Animal /related products	14.4	12.5	(1.9)	20.7	11.0	(9.7)
	Lumber	127.3	J -	(127.3)	171.2		(171.2)
	TOTAL	823.4	629.0	(204.5)	902.2	752.4	(149.8)
	Meat and fish	95.5	50.5	(45.0)	147.5	42.4	(105.1)
	Vegetables/fruit	80.3	405.3	325.0	78.3	460.1	381.8
Processed	Oil	34.7	0.2	(34.5)	39.5	1.8	(37.7)
Products	Sugar	146.5	0.2	(146.3)	158.4	0.1	(158.3)
	Others	142.7	111.2	(31.5)	166.4	147.6	(18.8)
	TOTAL	499.7	567.4	67.7	590.1	652.0	61.9
	GRAND TOTAL	1323.1	1196.4	(136.8)	1492.3	1404.4	(87.9)

Population Projections for Jordan Basin* and Egypt (population in millions)



^{*} Soviet immigration not included

Projections on Syria and Israel based on *UN World Population Prospects* 1989
Projections on the Occupied Territories and Jordan are based on in-country data obtained by author

Population Projections for Euphrates-Tigris Basin

(population in millions)

	1985	1990	1995	2000	2005	2010	2015	2020	2025
Iraq	15.9	18.9	22.4	26.3	30.7	35.3	40.1	45.1	50.0
Syria	10.5	12.5	14.9	17.6	20.6	23.3	26.6	29.5	32.2
Turkey	50.4	55.6	61.2	66.7	71.8	76.6	81.2	85.4	89.6

Projections based on UN World Population Prospects 1989

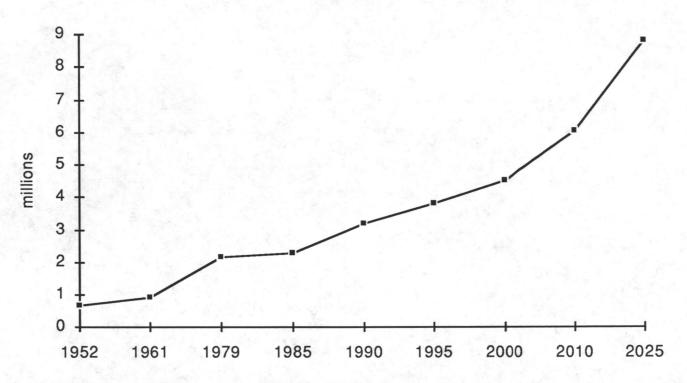
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	1985	1990	1995	2000	2005	2010	2015	2020	2025
Syria	10.5	12.5	14.9	17.6	20.6	23.3	26.6	29.5	32.2
Jordan	2.7	3.2	3.8	4.4	5.4	6.4	7.6	9.8	11.6
Israel*	4.2	4.6	5.0	5.3	5.6	6.0	6.3	6.7	7.0
Occupied Territories	1.5	1.8	2.1	2.5	2.9	3.4	4.0	4.7	5.5
Egypt	47.6	54.1	60.5	66.7	72.7	78.4	84.0	89.0	94.0

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Population Growth in Jordan (in millions)



Lake Tiberias (in Mcm/yr)

Inflow from Jordan River	500
Diversion before entering	100–110
Storage volume	670
Utilization	470
Evaporation	200–220
Salinity	250-400 (ppm)
Pumped into NWC*	390
Outflow	40
Average level, 1990–91	212.2m
Current level, Nov '91	211.89m

^{*} National Water Carrier

Israeli Withdrawals from Yarmuk River (in Mcm/yr)

	Normal Conditions	Drought Conditions
Total withdrawal Diversion to Golan	100 15–20	80–85 8–10
Diversion to Tiberias	80–85	70
to Coastal Plain to Irrigation	60–65	63–65 5–8

Groundwater Potential and Actual Production, 1985/6-1989/90 (in Mcm/yr)

Reservoir	Potential Production	Average Actual Production	Average Overproduction
Coastal	283	317	34
Mountain	330	379	49
TOTAL	613	696	83

Citation?

Source: State Comptroller

Water Consumption in Israel and West Bank (in Mcm/yr)

	Israel	West Bank
Urban consumption		
Present	500	25
Predicted (2020)	950	180
Agri consumption		
Present	1300	100
Predicted (2020)	2500	350
Domestic fresh water supply	1800	120
Deficit under 1989-90 practices	1000	350
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Citation: Source: Gideon Fishelson,
Figures based on Gideon Fishelson and Elisha Kalley.

Tributary	Average annual flow, MCM
Dan	245
Hisbani	138
Banias	121
Yarmouk	400
Side Wadis; spring	gs; runoff 350

Addendum

Negotiating Strategies

Supplemental Data

Annual Flow of of the Jordan Into Lake Tiberias (in Mcm)

Year	Actual Flow
1985-86	390
1986-87	639
1987-88	659
1988-89	305
1989-90	214
Avg. 1980-85	404

(N.B. For overall total inflow, add an average of 216 Mcm/yr direct rainfall and surface runoff).

Annual Flow of the Jordan Out of Lake Tiberias (in Mcm)

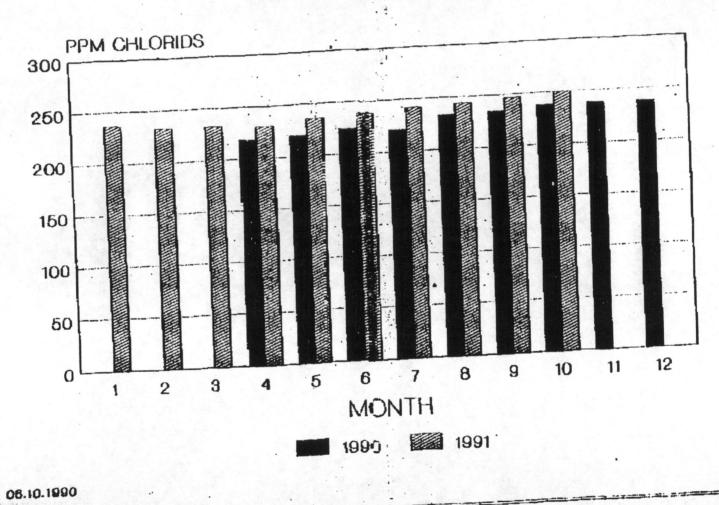
<u>Year</u>	Actual Flow
1985-86	14.47
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1987-88	127
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1989-90	56.4
Avg. 1980-85	42

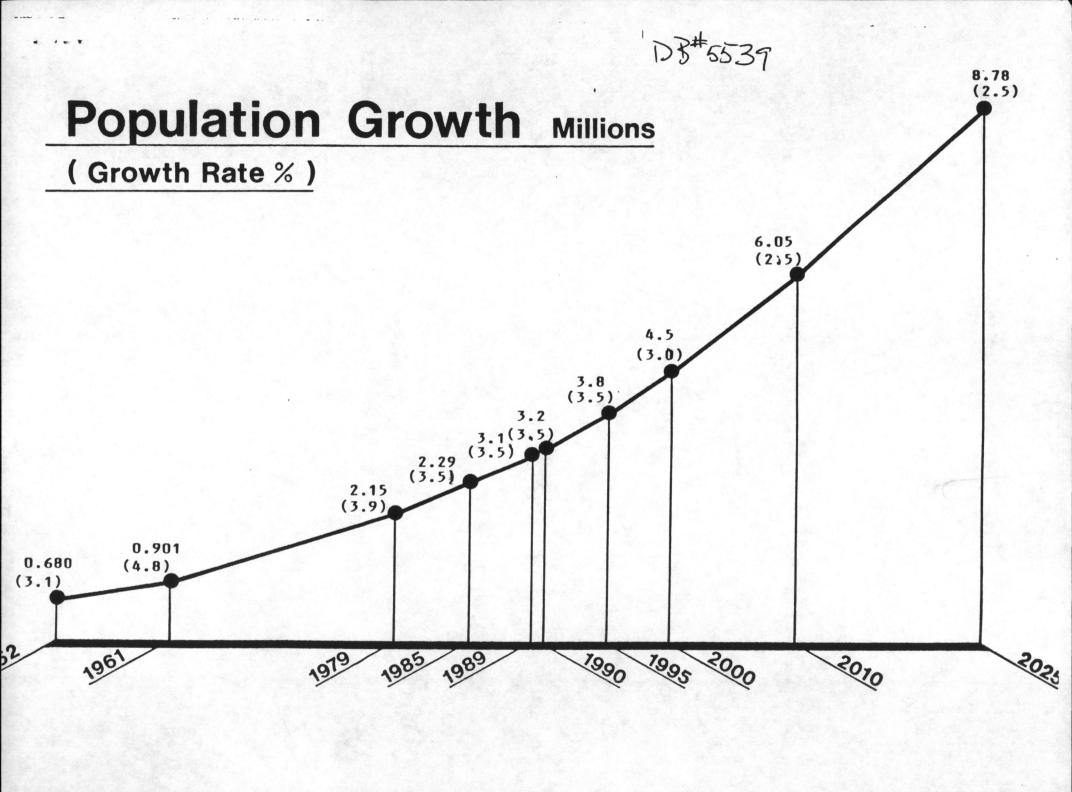
Annual rate of evaporation from Lake Tiberias: 294 Mcm

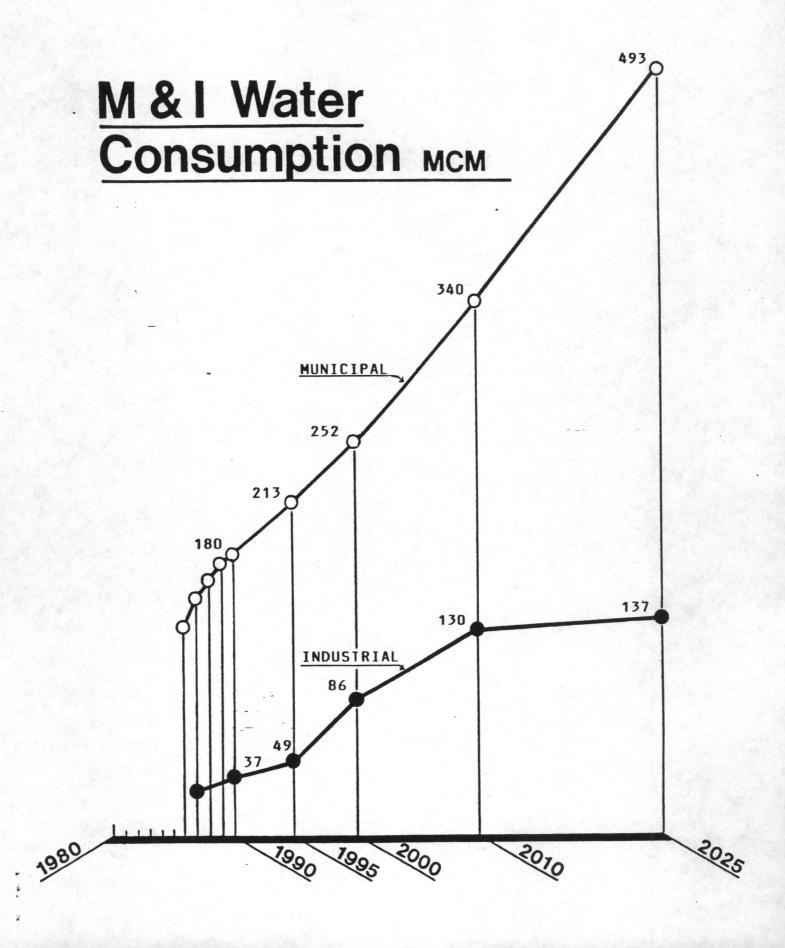
Annual rate of withdrawal from Lake Tiberias to the National Water Carrier: 525 Mcm

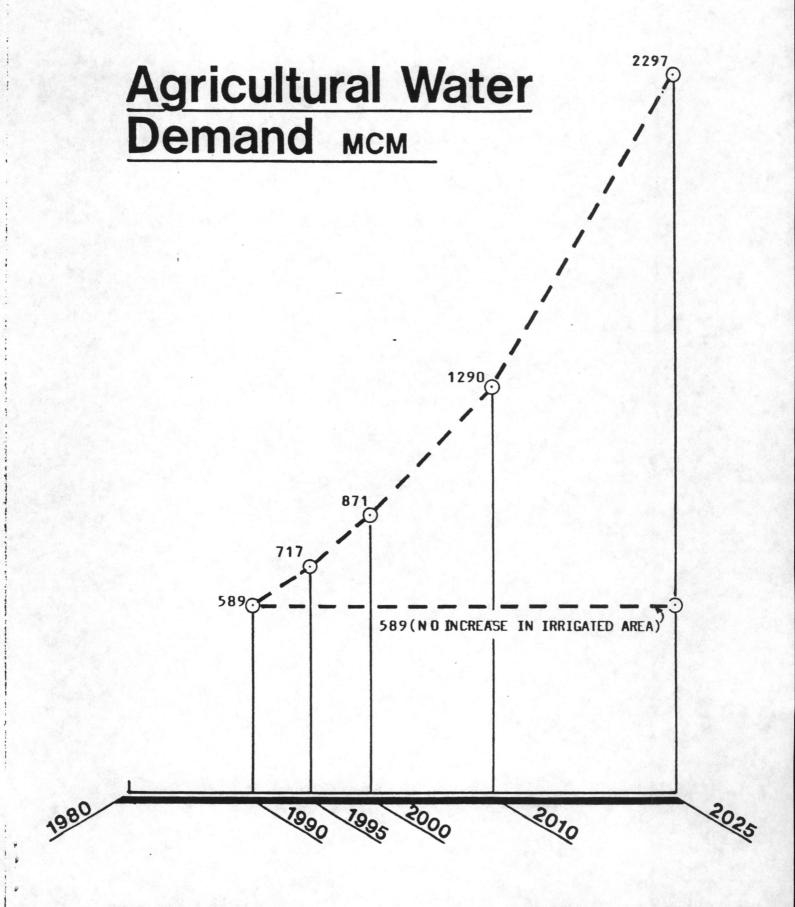
Annual amount of saline water diverted around Lake Tiberias: 10/Mcm

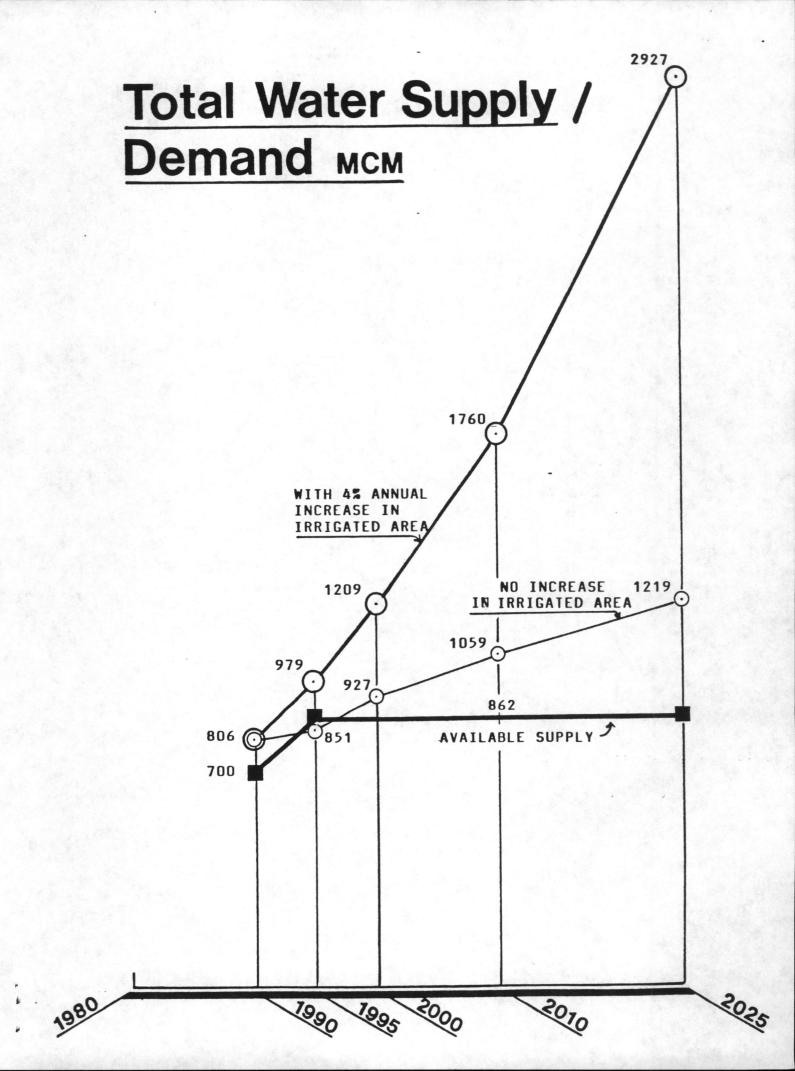
KINNERTH WATER SALINITY PPM CHLORIDS

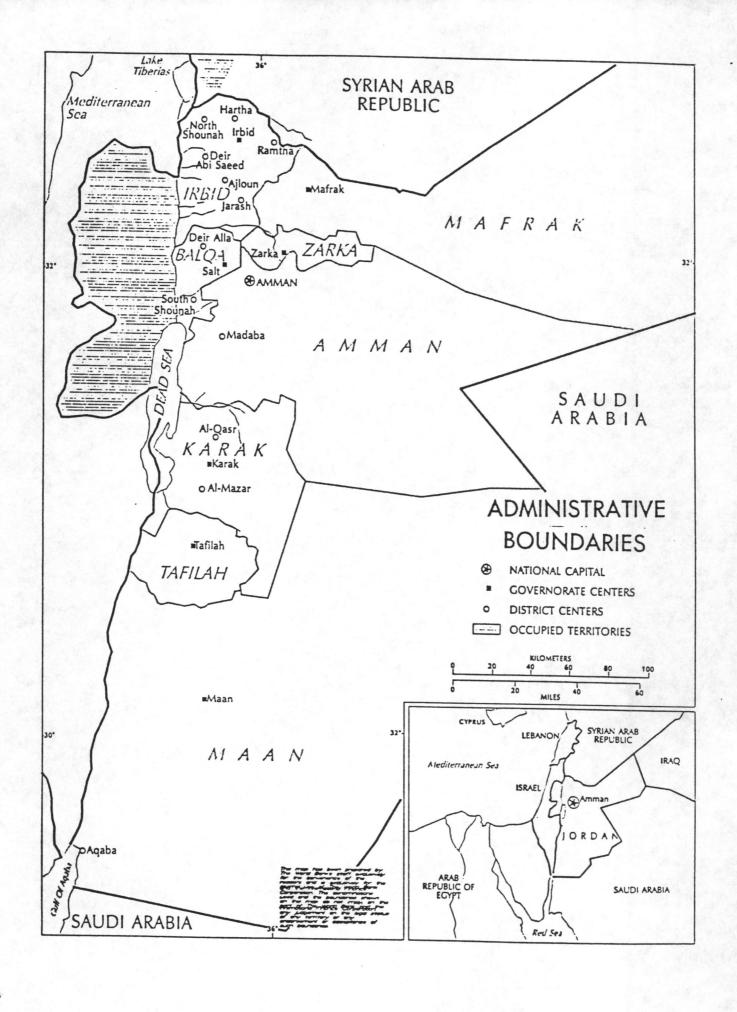


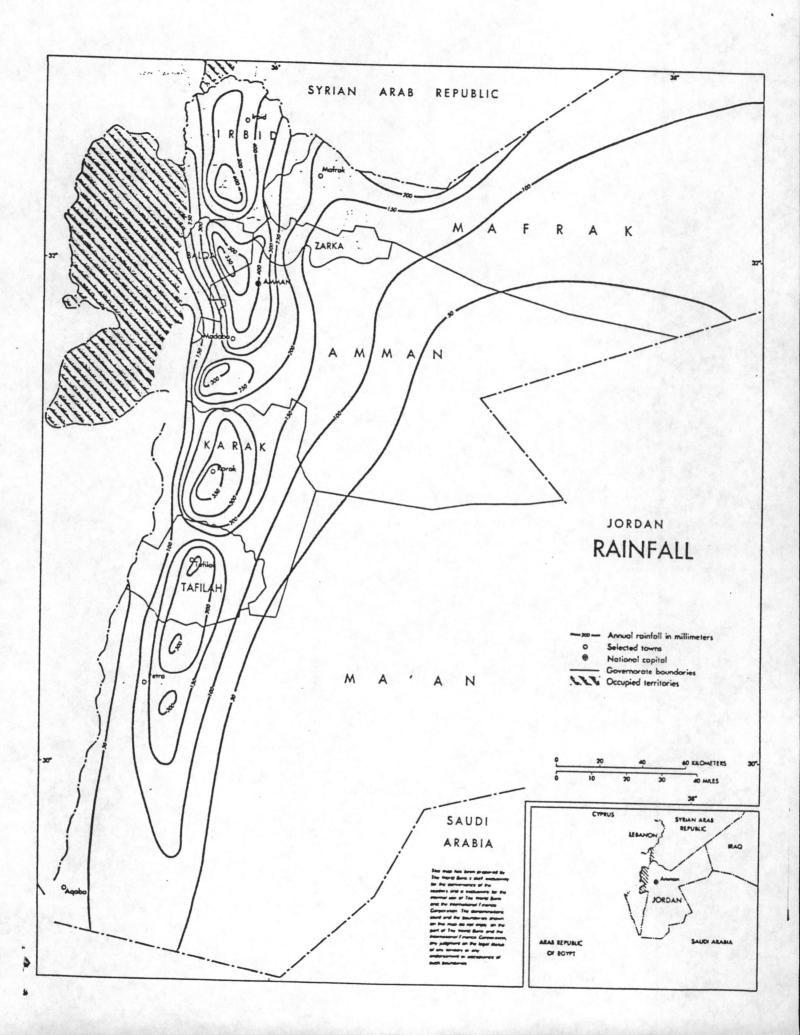












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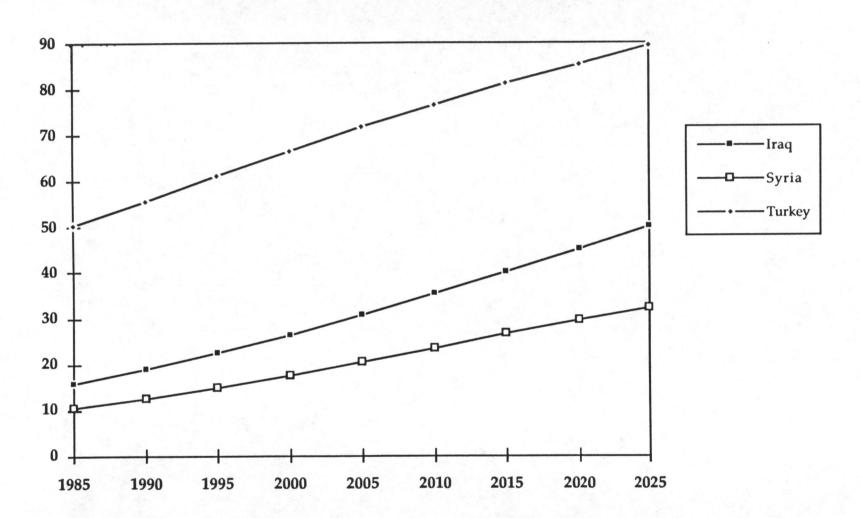
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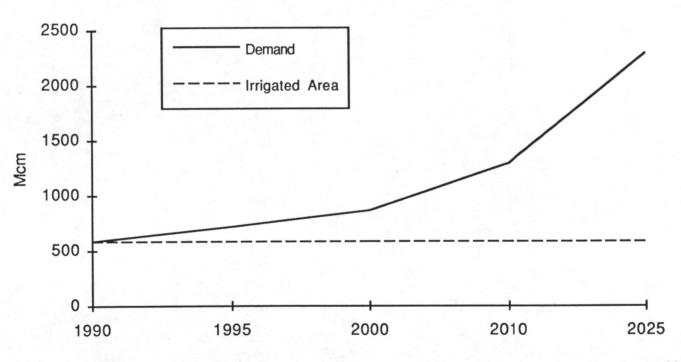
Annual amount of saline water diverted around Lake Tiberias: 10/Mcm

Euphrates-Tigris Basin Population Projections (population in millions)



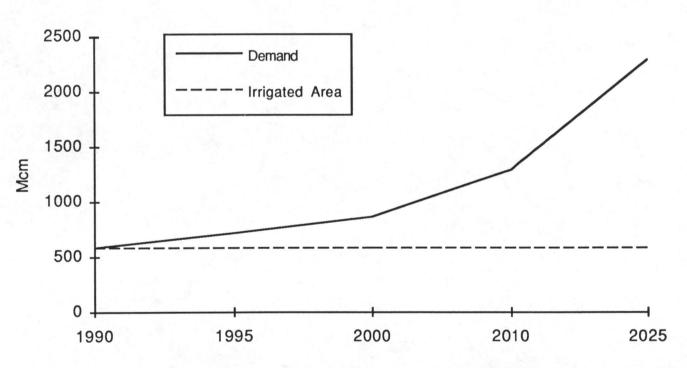
Projections based on UN World Population Prospects 1989

Agricultural Water Demand in Jordan (in Mcm/yr)



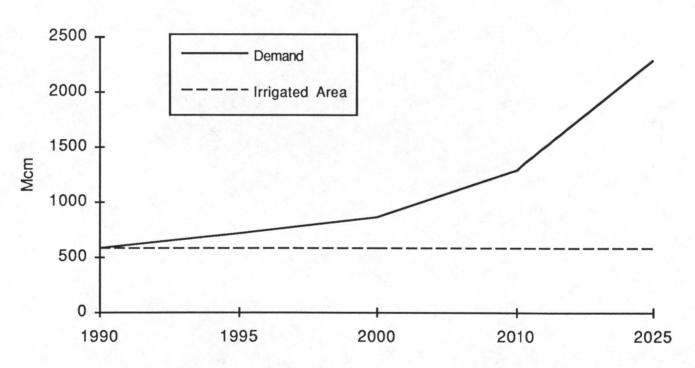
AMER, 1992

Agricultural Water Demand in Jordan (in Mcm/yr)



AMER, 1992

Agricultural Water Demand in Jordan (in Mcm/yr)



AMER, 1992

Jordan Flow at Lake Tiberias (in Mcm/yr)

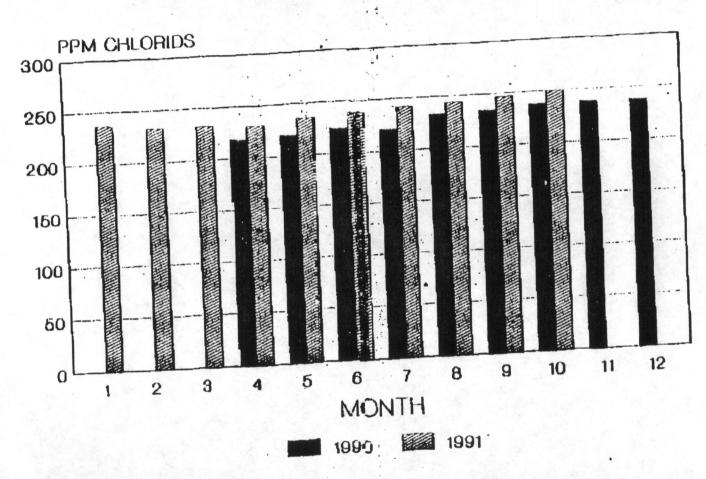
	Average	Actual				
	1980–85	1985–86	1986–87	1987–88	1988–89	1989–90
Jordan flow into Tiberias	404	390	639	659	305	214
(For overall inflow, add approximately 216 Mcm/yr direct rainfall and surface runoff)						
Jordan flow out of Tiberias	42	14.47	11.76	127	13.12	56.4

Rate of evaporation from the lake approximately 294 Mcm/yr Annual rate of withdrawal to National Water Carrier 500 Mcm/yr Salinity varies between 235–45 mg/l and is not affected significantly by lake level Saline water diverted around Lake Tiberias <10 Mcm/yr

Flows in the Main Tributaries of the Jordan River System

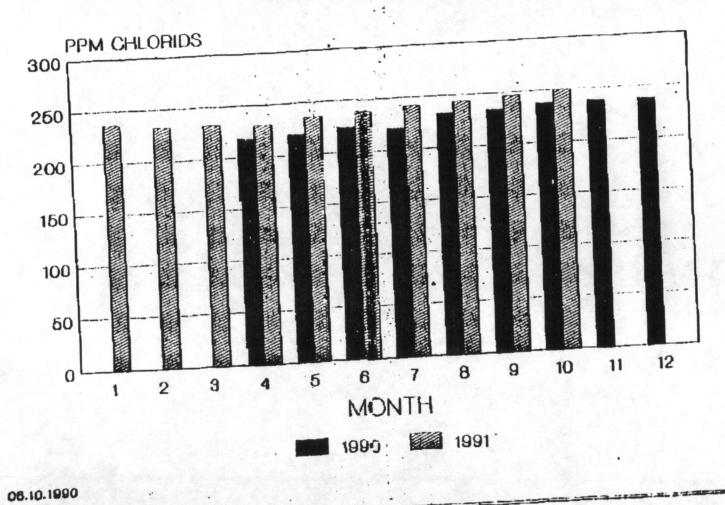
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KINNERTH WATER SALINITY PPM CHLORIDS

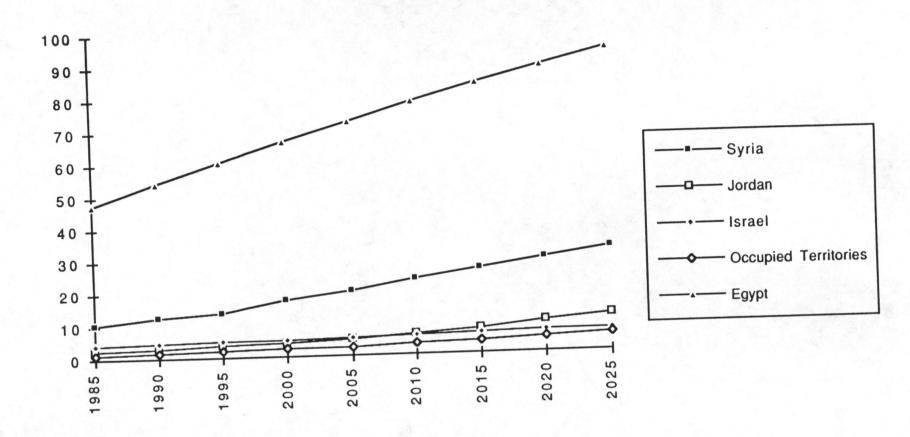


06.10.1990

KINNERTH WATER SALINITY PPM CHLORIDS



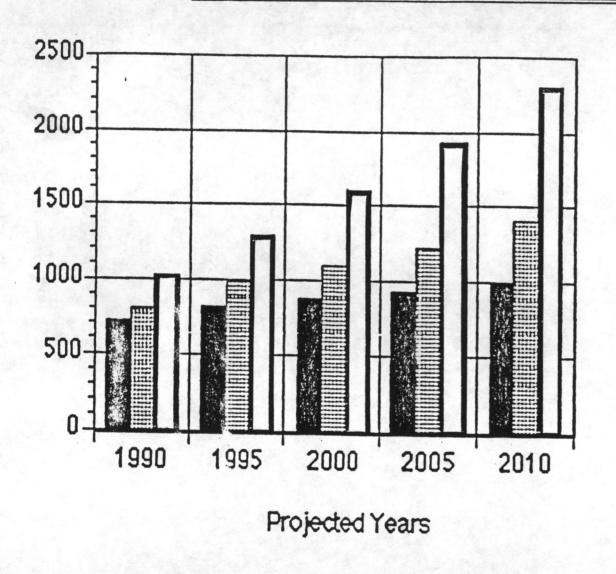
Population Projections for Jordan Basin* and Egypt (population in millions)

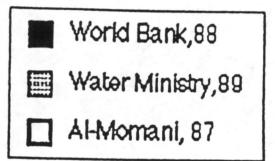


^{*} Soviet immigration not included

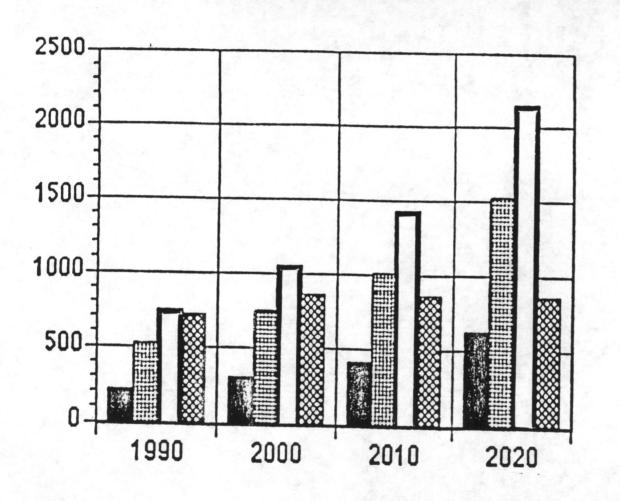
Projections on Syria and Israel based on UN World Population Prospects 1989
Projections on the Occupied Territories and Jordan are based on in-country data obtained by author

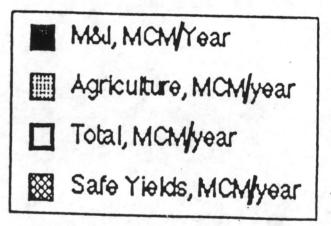
Forecasts of Total Water Demand, MCM per year





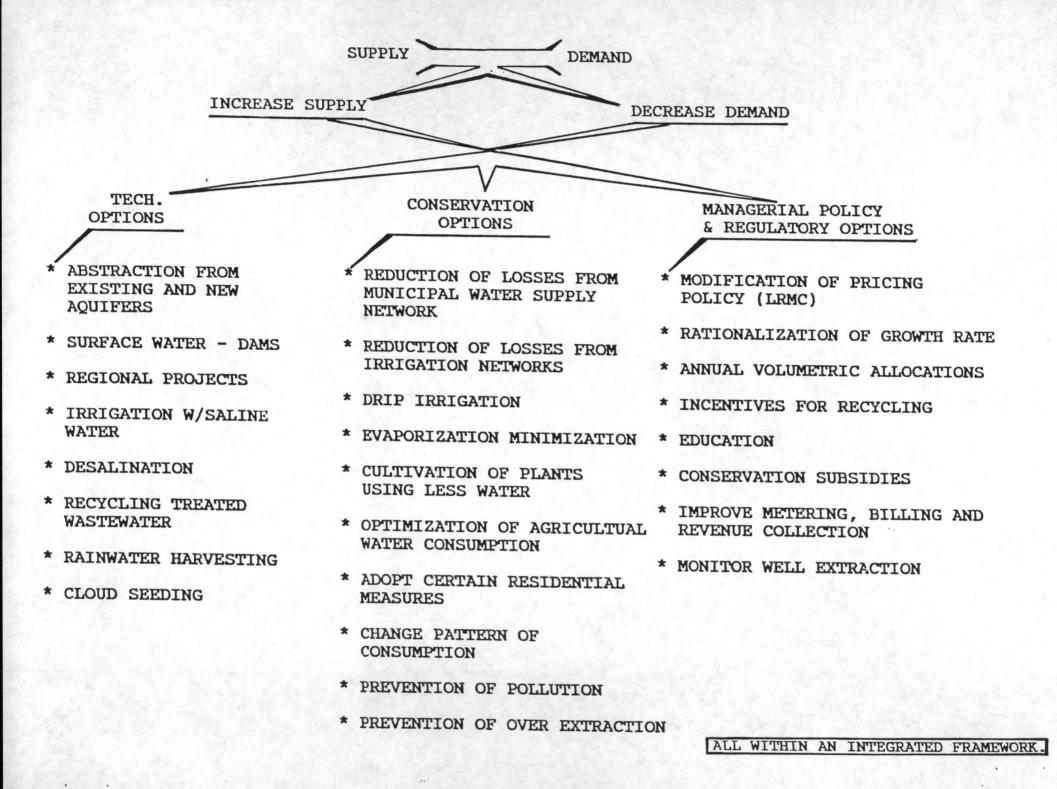
Projected water demand by each subsector





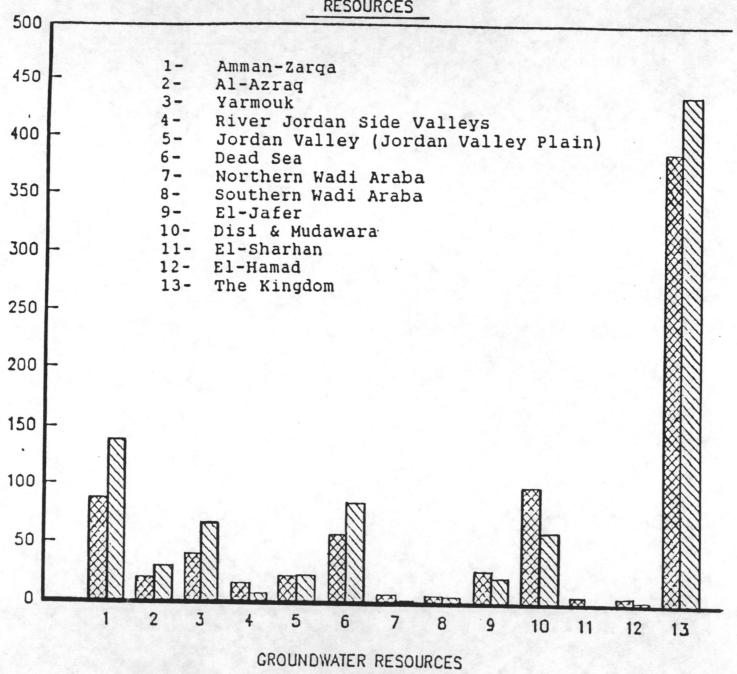
Characterization of Water Resources Problems in Terms of Social and Economic Significance

Physical Manifestation	Consequences Economic and	Social Significance
1. Semi-arid climate, low precipitation, high evap. rates.	Fluctuations in water supply; periodic droughts; naturally limited water resource base.	Planning, development targets plagued with uncertainty.
2. High population growth rates.	Increased demand and competition for water; non-renewble ground water depletion; pollution.	Reduced living standards; health problems.
3. Conflicting demands	Inequitable allocations and subsidies, regional price structuring.	Emergence of water lobbyists.
4. Riparian conflicts	Critical supply augmentation projects cannot be undertaken.	Destabilizing to the economy.
5. Absence of effective conservation program.	Waterlogging, environmental impacts, overall inefficiencies, losses.	Decline in productivity.
6. Financial ∞nstraints.	Supply augmentation cannot meet demand requirements.	Increasing health problems, loss of productivity (chair reaction).
7. Lack of integrated water policy.	Most of the above apply.	Low potential for social and economic development.



AVAILABLE AND EXPLOITABLE GROUND

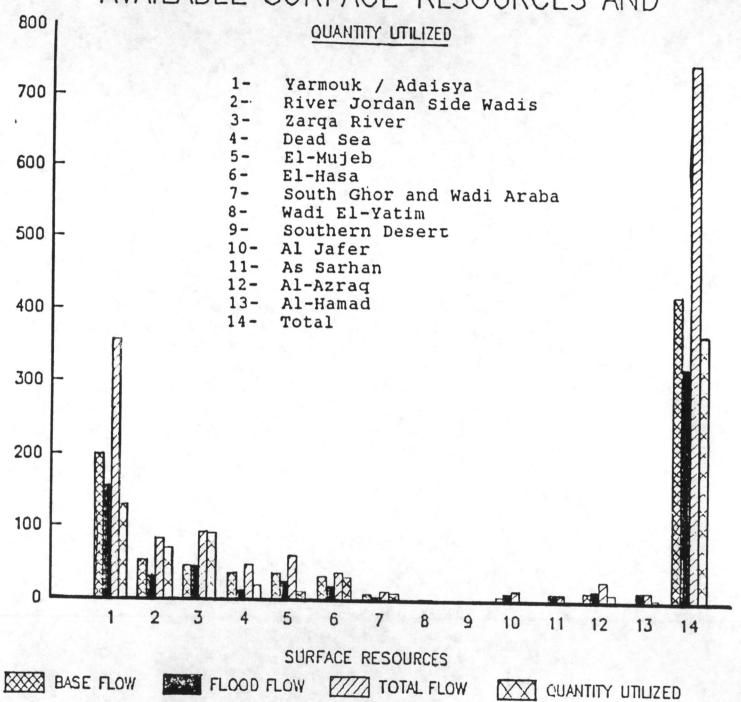




SAFE EXTRACTION

QUANTITY EXTRACTED

AVAILABLE SURFACE RESOURCES AND



EXISTING DAMS IN JORDAN

DAM NAME	RIVER OR WADI	YEAR COMPLETED	CAPACITY MCM	PURPOSE			
KING TALAL	ZARQA	1986	82.00	IRRIGATION, POWER			
WADI AL-ARAB	W.AL-ARAB	1984	20.00	STORAGE, POWER			
KAFREIN	KAFREIN	1976	4.80	IRRIGATION			
SHUIEB	SHUIEB	1964	2.30	G.W. RECHARGE			
SHARHABEIL	ZIGLAB	1964	4.30	IRRIGATION			
SULTANI	MUJIB	1962	1.20	IRRIGATION, LIVE STOCK			
QATRANA	MUJIB	1962	2.30	G.W.RECHARGE, LIVE STOCK			
LAHFI	DHULIEL	1967	0.70	LIVE STOCK WATERING			
BUWEIDA	YARMOUK	1967	0.70	LIVE STOCK WATERING			
GHADEIR AL-ABYAD	YARMOUK	1967	0.70	LIVE STOCK WATERING			
SAMMA SIRHAN	YARMOUK	1965	0.70	LIVE STOCK WATERING			
AGIB	DHULIEL	1983	1.40	G.W. RECHARGE			
BURGU'	RUWEISHID	1950	1.50	LIVE STOCK WATERING			
SHAL'AN	RUWEISHID	1970	1.00	IRRIGATION			
DEIR AL-KAHF	DEIR AL-KAHF	1950	1.50	LIVE STOCK WATERING			

PROPOSED DAMS IN JORDAN

DAM NAME	BASIN	STORAGE		WATER
		CAPACITY	CONDITION	USES
WELLE		MCM		
WEHDA	YARMOUK	220	FEASIBILITY	MULTIPURPOSE
KUFRINJA	J.V.SIDE WADIS		FEASIBILITY	IRRIGATION
W.YABIS	J.V.SIDE WADIS		FEASIBILITY	IRRIGATION
KARAMA	J.V.SIDE WADIS	45		
RUMIEL	WADI WALA	25		IRRIGATION & STORAGE
HAMAM	WADI WALA	3	REFEASIBILITY	IRRIGATION
NUKHILA	WADI MUJIB	12		G.W.RECHARGE
AL-ABYAD	WADI MUJIB		REFEASIBILITY	MULTIPURPOSE
SWAQA	WADI MUJIB		REFEASIBILITY	IRRIGATION
TANNUR	WADI HASA		REFEASIBILITY	G.W.RECHARGE
DABA'A	WADI MUJIB		REFEASIBILITY	IRRIGATION
ZATARI	ZARQA RIVER		REFEASIBILITY	MULTIPURPOSE
RUWEISHID	WADI RUWEISHID		UNDER STUDY	IRRIGATION
ABU HAFNA	WADI RUWEISHID	2.5		MULTIPURPOSE
AJIL	AZRAQ	2.3		MULTIPURPOSE
RATAM	AZRAQ		UNDER STUDY	G.W.RECHARGE
BUTUM	AZRAQ		UNDER STUDY	G.W.RECHARGE
ABU SAFAT	JAFR		UNDER STUDY	G.W.RECHARGE
URDHAN	JAFR		UNDER STUDY	IRRIGATION
JSHEISHAT	JAFR		UNDER STUDY	MULTIPURPOSE
MATHK	JAFR		PROPOSED	G.W.RECHARGE
ASSU'A	JAFR		PROPOSED	LIVE STOCK WATERING
BYAD	JAFR		PROPOSED	LIVE STOCK WATERING
IQEIQA	JAFR		PROPOSED	LIVE STOCK WATERING
L-JAHDANIYA	JAFR		PROPOSED	LIVE STOCK WATERING
	Total II	2	PROPOSED	LIVE STOCK WATERING

DESALINATION TECHNIQUES

- 1) DISTILLATION METHODS
 - MULTI-FLASH DISTILLATION (MSF)
 - MULTI-EFFECT DISTILLATION (MED)
 - VAPOR COMPRESSION (VC)
- 2) MEMBRANE PROCESSES
 - REVERSE OSMOSIS (RO)
 - ELECTRODIALYSIS (ED)
 - ELECTRODIALYSIS REVERSAL (EDR)
- 3) ION EXCHANGE
- 4) HYBRID SYSTEMS

CONSIDERATION

ENVIRONMENTAL BIOLOGICAL CHEMICAL PHYSICAL

INCREASED CHEMICAL IN BRINE
I.E. CHLORIDE, BIOCIDE, DESCALING CHEMICALS, HEAVY METALS
SLUDGE DISPOSAL
POST TREATMENT

COST COMPONENTS

INVESTMENT, ENERGY, CHEMICAL, O&M

COST COMPARISON (BY PROF. KEENAN FROM SEVERAL SOURCES)

R.O. \$1.21 - 2.82/M³ 1991 PRICES DISTILLATION \$1.25 - 3.07/M³ 1991 PRICES

Energy Requirements for Various Desalination Methods. The energy units are MJ/cu m of product.

Process	Energy
Seawater RO	21-36
Brackish RO	4-8
Seawater EDR	32-48
Brackish EDR	3-14
Seawater MSF	46-60
Seawater VC	45-68
Seawater MED	33-37

Cost comparison of distillation with RO desalination. The costs are in units of 1st Quarter 1991 U. S. dollars per cu m of product.

200	
RO Cost	Distillation Cost
1.50-2.82	1.90-4.15
1.21-1.54	1.25-1.80
1.34-1.96	1.40-2.13
1.24-1.87	1.85-3.07
1.44	2.55
1.31-1.36	1.36-1.82

Cost comparison of EDR with RO desalination. The costs are in units of 1st Quarter 1991 U.S. dollars per cu m of product.

TDS mg/L	RO Cost	EDR Cost
1000	1.25	1.56
5000	2.25	4.88

RECYCLING OF TREATED WASTEWATER

* QTY. 44 MCM - 1989

75-100 MCM - 2000

- * ADVANTAGES: ADDITIONAL SOURCE OF WATER WITH NUTRIENTS
- * LIMITATIONS

SALINITY

TRACE ELEMENTS & HEAVY METALS

MICROBIOLOGICAL CONTAMINATION SOIL, PLANTS, AIR GROUND AND SURFACE WATER POLLUTIONS

RAINWATER HARVESTING

CAPTURE MAX. QTY OF RAINWATER

- MICRO CATCHMENTS
- MACRO CATCHMENT
- LOW HEIGHT WATER RETENTION STRUCTURES
- LARGE WATERING HOLES
- IMPREVIOUS SURFACES
- DESERT DAMS
- LARGE DAMS

QTY: RAIN DEPENDENT

ECONOMY

Lake Tiberias (in Mcm/yr)

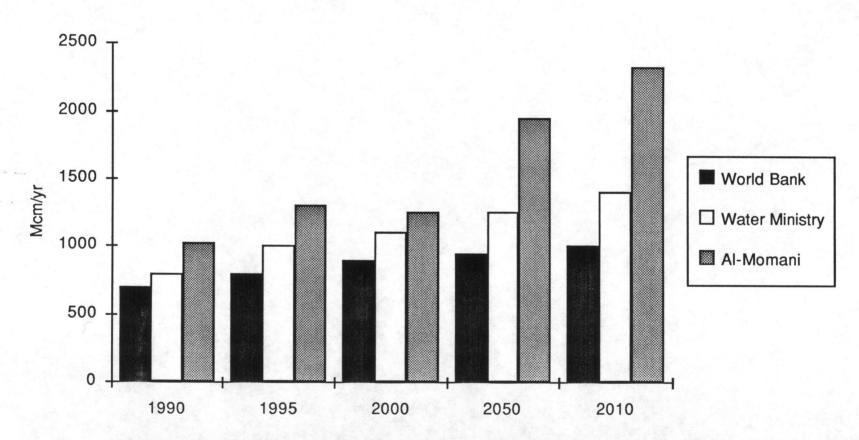
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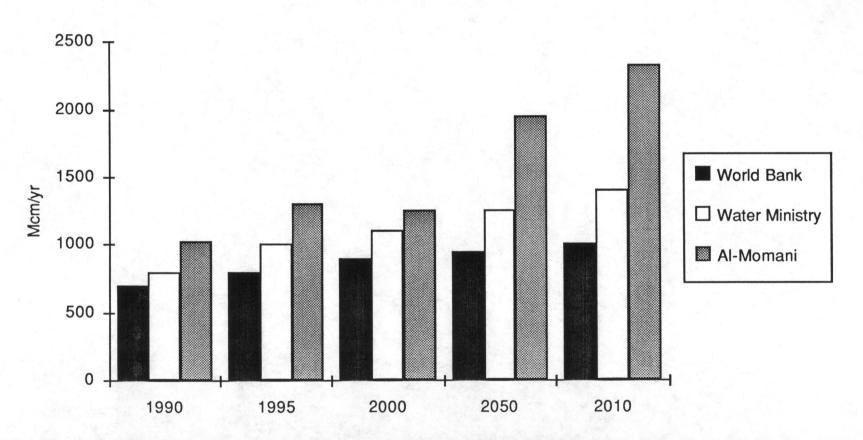
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to Irrigation	15	3-8

Forecasts of Total Water Demand in Jordan (in Mcm/yr)



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City 4 . Source: Gideon Fishelson,
Figures based on Gideon Fishelson and Elisha Kalley.

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	Vegetables	17.7	63.0	45.3	23.3	97.2	73.9
	Garden products	2.6	138.9	136.3	3.5	165.2	161.7
Fresh	Citrus	_	131.7	131.7	_	180.5	180.5
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	Fish and seafood	47.6	4.3	(43.3)	54.2	6.6	(47.6)
	Animal /related products	14.4	12.5	(1.9)	20.7	11.0	(9.7)
	Lumber	127.3	_	(127.3)	171.2	_	(171.2)
	TOTAL	823.4	629.0	(204.5)	902.2	752.4	(149.8)
	Meat and fish	95.5	50.5	(45.0)	147.5	42.4	(105.1)
	Vegetables/fruit	80.3	405.3	325.0	78.3	460.1	381.8
Processed		34.7	0.2	(34.5)	39.5	1.8	(37.7)
Products	Sugar	146.5	0.2	(146.3)	158.4	0.1	(158.3)
	Others	142.7	111.2	(31.5)	166.4	147.6	(18.8)
	TOTAL	499.7	567.4	67.7	590.1	652.0	61.9
	GRAND TOTAL	1323.1	1196.4	(136.8)	1492.3	1404.4	(87.9)

Israeli Balance of Trade in Agriculture (in millions of dollars)

			1989			1990	
		Import	Export	Balance	Import	Export	Balance
	Field crops	454.7	120.1	(334.6)	439.4	111.1	(328.3)
	Cotton	71.9	103.3	31.4	97.5	88.4	(9.1)
	Vegetables	17.7	63.0	45.3	23.3	97.2	73.9
	Garden products	2.6	138.9	136.3	3.5	165.2	161.7
Fresh	Citrus	-	131.7	131.7		180.5	180.5
Products	Other fruit	87.2	55.2	(32.0)	92.4	92.4	0.0
	Fish and seafood	47.6	4.3	(43.3)	54.2	6.6	(47.6)
	Animal /related products	14.4	12.5	(1.9)	20.7	11.0	(9.7)
	Lumber	127.3	_	(127.3)	171.2	_	(171.2)
	TOTAL	823.4	629.0	(204.5)	902.2	752.4	(149.8)
	Meat and fish	95.5	50.5	(45.0)	147.5	42.4	(105.1)
	Vegetables/fruit	80.3	405.3	325.0	78.3	460.1	381.8
Processed	Oil	34.7	0.2	(34.5)	39.5	1.8	(37.7)
Products	Sugar	146.5	0.2	(146.3)	158.4	0.1	(158.3)
	Others	142.7	111.2	(31.5)	166.4	147.6	(18.8)
	TOTAL	499.7	567.4	67.7	590.1	652.0	61.9
	GRAND TOTAL	1323.1	1196.4	(136.8)	1492.3	1404.4	(87.9)

Population Projections for Euphrates-Tigris Basin (population in millions)

	1985	1990	1995	2000	2005	2010	2015	2020	2025
Iraq	15.9	18.9	22.4	26.3	30.7	35.3	40.1	45.1	50.0
Syria	10.5	12.5	14.9	17.6	20.6	23.3	26.6	29.5	32.2
Turkey	50.4	55.6	61.2	66.7	71.8	76.6	81.2	85.4	89.6

Projections based on UN World Population Prospects 1989

Population Projections for Jordan Basin and Egypt (population in millions)

	1985	1990	1995	2000	2005	2010	2015	2020	2025
Syria	10.5	12.5	14.9	17.6	20.6	23.3	26.6	29.5	32.2
Jordan	2.7	3.2	3.8	4.4	5.4	6.4	7.6	9.8	11.6
Israel*	4.2	4.6	5.0	5.3	5.6	6.0	6.3	6.7	7.0
Occupied Territories	1.5	1.8	2.1	2.5	2.9	3.4	4.0	4.7	5.5
Egypt	47.6	54.1	60.5	66.7	72.7	78.4	84.0	89.0	94.0

^{*} Soviet immigration not included

Projections on Syria and Israel based on *UN World Population Prospects 1989*Projections on the Occupied Territories and Jordan based on in-country data obtained by author

Population Projections for Euphrates-Tigris Basin

(population in millions)

	1985	1990	1995	2000	2005	2010	2015	2020	2025
Iraq	15.9	18.9	22.4	26.3	30.7	35.3	40.1	45.1	50.0
Syria	10.5	12.5	14.9	17.6	20.6	23.3	26.6	29.5	32.2
Turkey	50.4	55.6	61.2	66.7	71.8	76.6	81.2	85.4	89.6

Projections based on UN World Population Prospects 1989

Population Projections for Jordan Basin and Egypt (population in millions)

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Syria	10.5	12.5	14.9	17.6	20.6	23.3	26.6	29.5	32.2
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Israel*	4.2	4.6	5.0	5.3	5.6	6.0	6.3	6.7	7.0
Occupied Territories	1.5	1.8	2.1	2.5	2.9	3.4	4.0	4.7	5.5
Egypt	47.6	54.1	60.5	66.7	72.7	78.4	84.0	89.0	94.0

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