

World on the Edge - Supporting Data for Chapter 2

[Wheat Production, Consumption, and Imports in Saudi Arabia, 1960-2010](#)

GRAPH: Wheat Production and Consumption in Saudi Arabia, 1960-2010

GRAPH: Wheat Imports by Saudi Arabia, 1960-2010

[Grain Production, Consumption, and Imports in Yemen, 1962-2010](#)

GRAPH: Grain Production and Consumption in Yemen, 1962-2010

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[Grain Production, Consumption, and Imports in the Arab Middle East and Israel, 1962-2010](#)

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[World Irrigated Area and Irrigated Area Per Thousand People, 1950-2008](#)

GRAPH: World Irrigated Area, 1950-2008

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A full listing of data for the entire book is on-line at:

http://www.earth-policy.org/books/wote/wote_data

This is part of a supporting dataset for Lester R. Brown, **World On the Edge: How to Prevent Environmental and Economic Collapse** (New York: W.W. Norton & Company, 2010). For more information and a free download of the book, see Earth Policy Institute on-line at www.earth-policy.org.

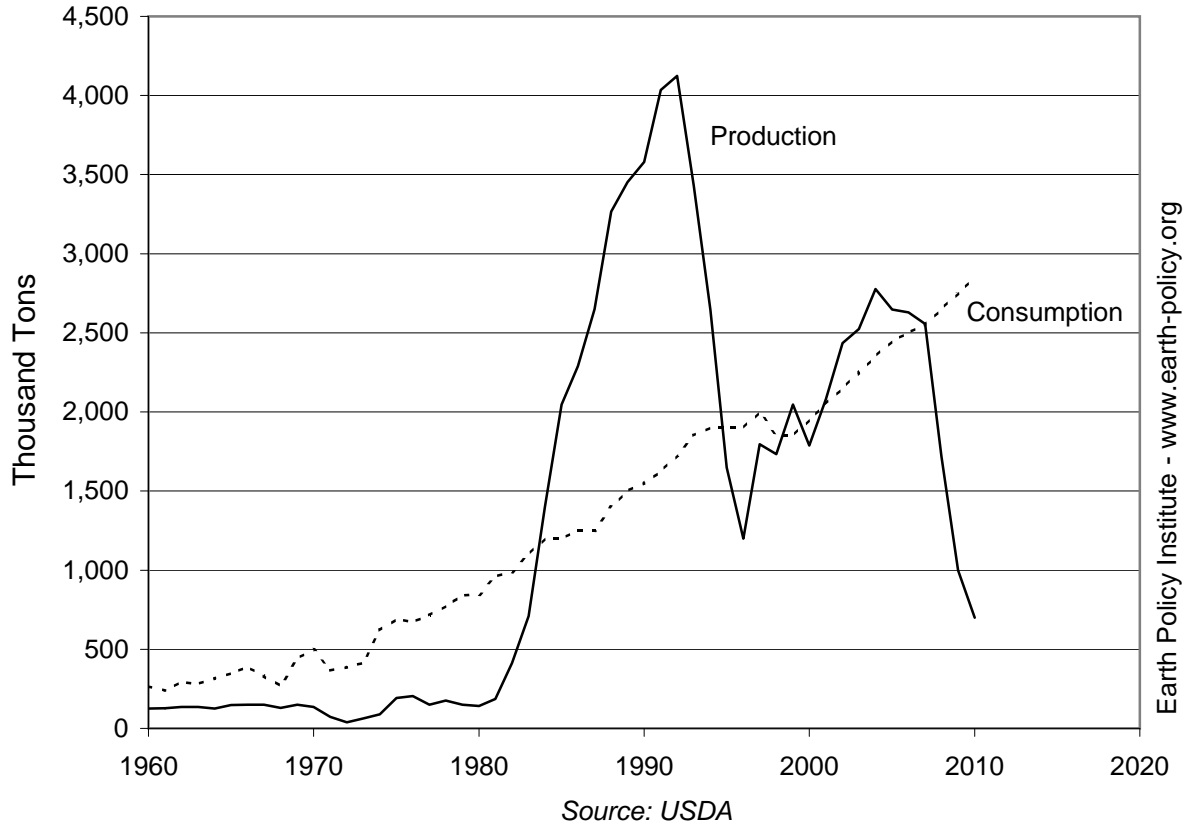
Wheat Production, Consumption, and Imports in Saudi Arabia, 1960-2010

Year	Production	Consumption	Imports
	Thousand Tons		
1960	125	264	139
1961	127	238	111
1962	135	293	158
1963	135	282	147
1964	125	315	190
1965	148	348	200
1966	149	389	240
1967	150	332	182
1968	130	270	140
1969	150	440	290
1970	135	498	363
1971	72	366	294
1972	39	386	347
1973	63	414	351
1974	90	621	531
1975	193	691	598
1976	205	672	467
1977	150	716	767
1978	175	772	599
1979	150	841	1,293
1980	141	846	732
1981	187	961	581
1982	412	988	686
1983	710	1,100	327
1984	1,402	1,200	206
1985	2,047	1,200	87
1986	2,290	1,250	105
1987	2,649	1,250	204
1988	3,267	1,400	154
1989	3,452	1,500	161
1990	3,580	1,550	184
1991	4,035	1,625	329
1992	4,124	1,725	222
1993	3,430	1,850	71
1994	2,646	1,900	46
1995	1,648	1,900	67
1996	1,200	1,900	68
1997	1,795	2,000	110
1998	1,734	1,850	33
1999	2,046	1,850	41
2000	1,788	1,950	25
2001	2,082	2,050	101
2002	2,436	2,150	161
2003	2,524	2,250	26
2004	2,776	2,350	50
2005	2,648	2,450	80
2006	2,630	2,500	100
2007	2,556	2,550	75
2008	1,720	2,650	1,400
2009	1,000	2,750	1,910
2010	700	2,850	2,000

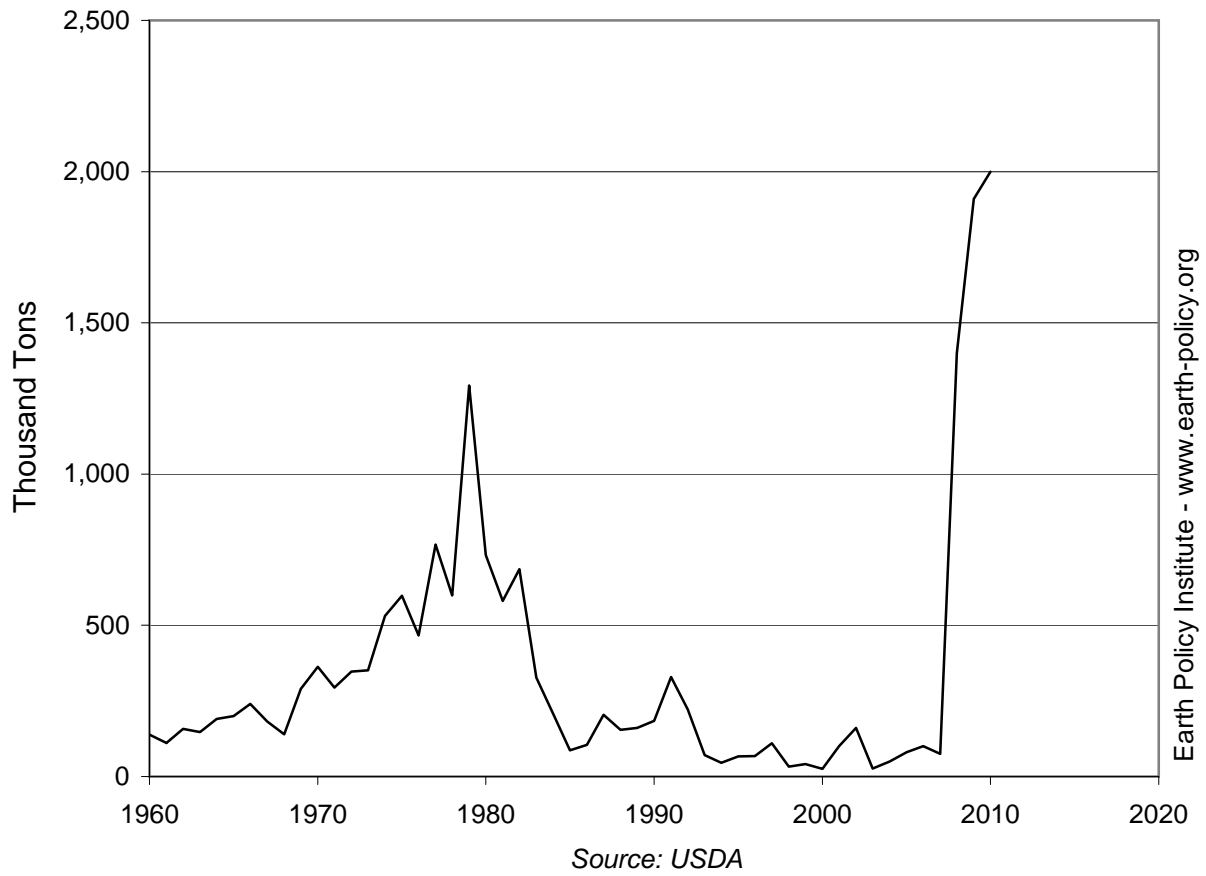
Source: U.S. Department of Agriculture, *Production, Supply and Distribution*, electronic database, at www.fas.usda.gov/psdonline, updated 8 October 2010.

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Wheat Production and Consumption in Saudi Arabia, 1960-2010



Wheat Imports by Saudi Arabia, 1960-2010



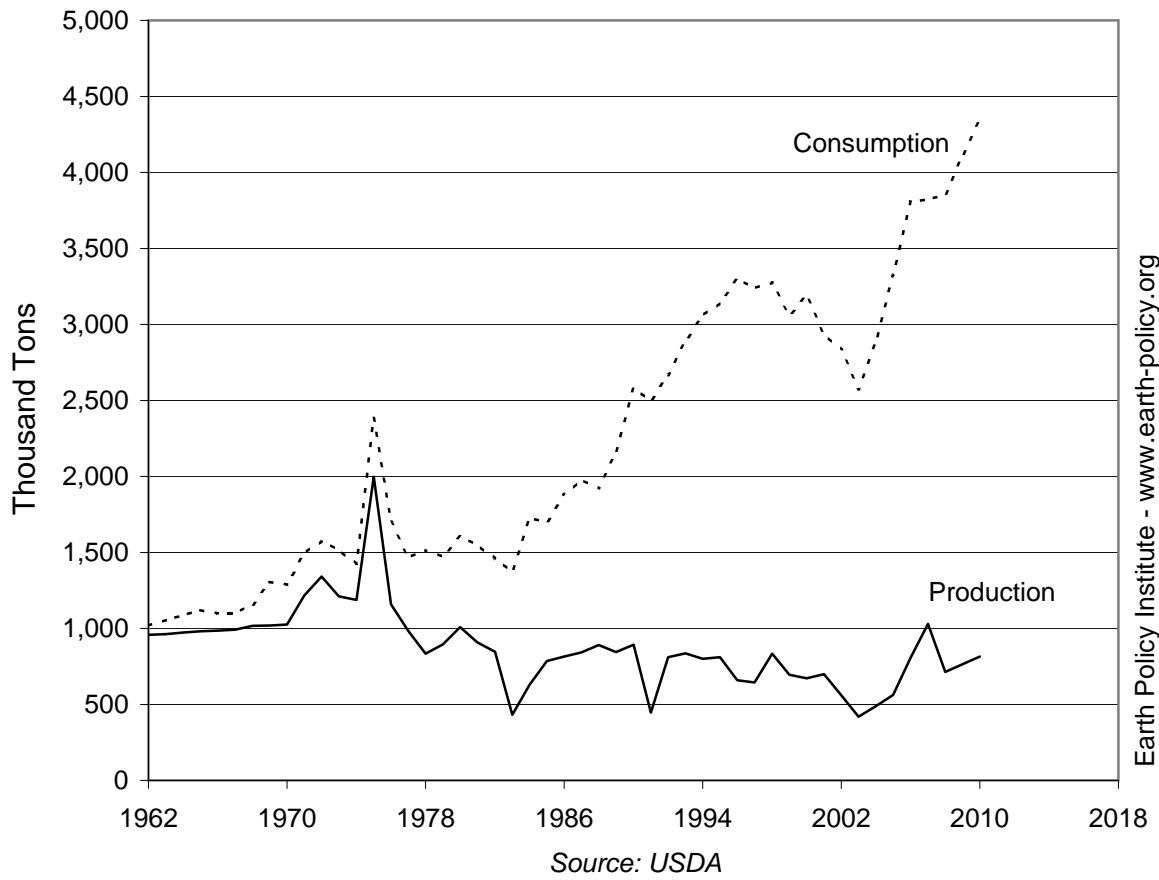
Grain Production, Consumption, and Imports in Yemen, 1962-2010

Year	Production	Consumption	Imports
	Thousand Tons		
1962	957	1,020	93
1963	963	1,054	127
1964	973	1,087	145
1965	981	1,119	170
1966	985	1,099	156
1967	991	1,102	129
1968	1,017	1,156	149
1969	1,020	1,305	301
1970	1,026	1,289	279
1971	1,216	1,494	288
1972	1,342	1,575	254
1973	1,210	1,515	304
1974	1,187	1,425	251
1975	1,998	2,383	398
1976	1,158	1,706	594
1977	983	1,465	493
1978	834	1,514	665
1979	894	1,472	582
1980	1,009	1,603	604
1981	907	1,550	653
1982	847	1,461	624
1983	432	1,372	940
1984	630	1,724	1,094
1985	785	1,702	917
1986	814	1,878	1,064
1987	843	1,977	1,134
1988	890	1,923	1,033
1989	845	2,161	1,316
1990	893	2,579	1,686
1991	447	2,498	2,051
1992	810	2,667	1,857
1993	835	2,891	2,056
1994	801	3,059	2,258
1995	810	3,142	2,332
1996	660	3,299	2,639
1997	645	3,239	2,594
1998	833	3,273	2,440
1999	694	3,061	2,367
2000	672	3,191	2,519
2001	700	2,935	2,235
2002	561	2,836	2,275
2003	419	2,573	2,154
2004	489	2,885	2,396
2005	562	3,324	2,762
2006	809	3,807	3,202
2007	1,030	3,823	2,747
2008	714	3,851	3,735
2009	765	4,110	3,377
2010	815	4,345	3,135

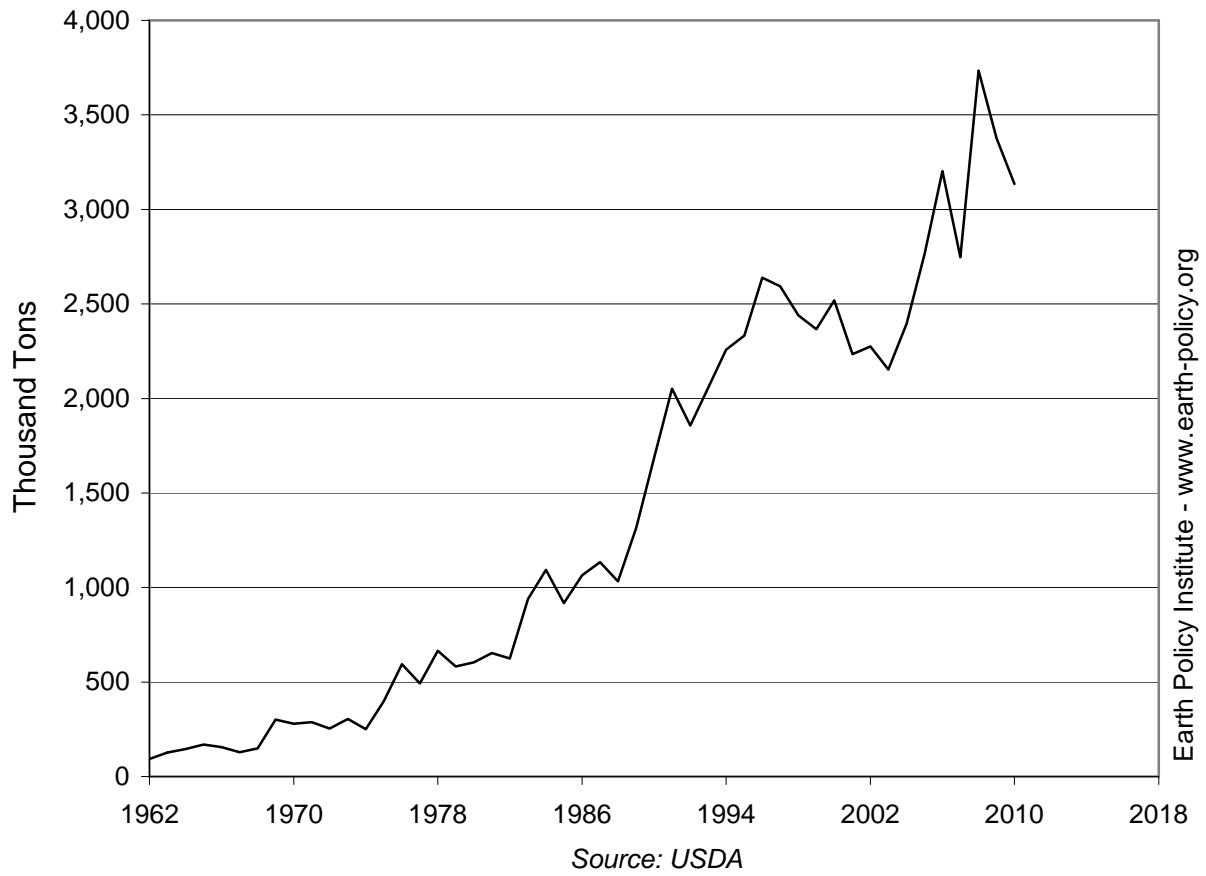
Source: U.S. Department of Agriculture, *Production, Supply and Distribution*, electronic database, at www.fas.usda.gov/psdonline, updated 8 October 2010.

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Grain Production and Consumption in Yemen, 1962-2010



Grain Imports by Yemen, 1962-2010



Grain Production, Consumption, and Imports in the Arab Middle East and Israel, 1962-2010

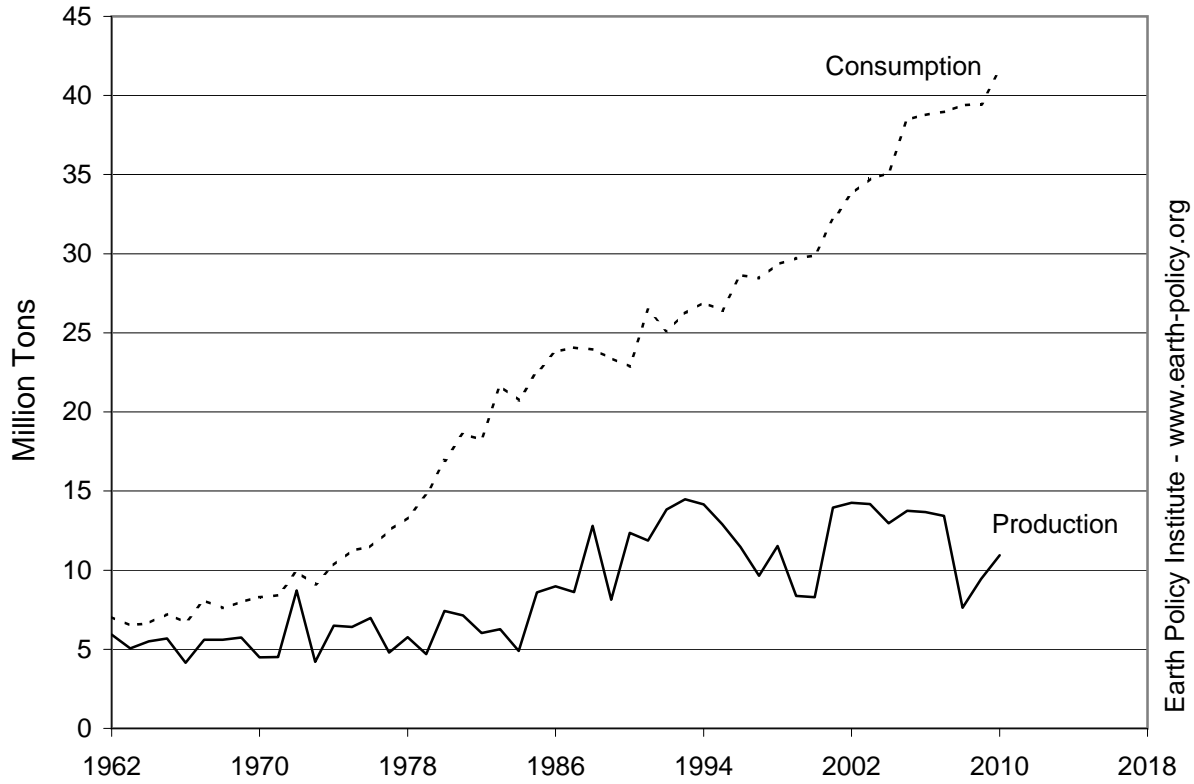
Year	Production	Consumption	Imports
	Million Tons		
1962	5.9	7.0	2.0
1963	5.0	6.5	2.0
1964	5.5	6.7	1.7
1965	5.7	7.2	1.8
1966	4.1	6.7	2.7
1967	5.6	8.1	2.6
1968	5.6	7.6	2.2
1969	5.8	8.0	2.6
1970	4.5	8.3	3.9
1971	4.5	8.4	4.3
1972	8.7	9.9	3.0
1973	4.2	9.1	4.1
1974	6.5	10.3	4.7
1975	6.4	11.2	4.8
1976	7.0	11.5	5.7
1977	4.8	12.5	7.1
1978	5.8	13.3	7.5
1979	4.7	14.7	11.1
1980	7.4	16.9	10.1
1981	7.1	18.6	11.7
1982	6.0	18.3	12.1
1983	6.3	21.7	15.6
1984	4.9	20.7	16.3
1985	8.6	22.5	15.7
1986	9.0	23.8	19.1
1987	8.6	24.1	17.1
1988	12.8	23.9	15.3
1989	8.1	23.4	16.6
1990	12.4	22.9	14.0
1991	11.9	26.4	18.3
1992	13.8	25.1	13.4
1993	14.5	26.2	14.8
1994	14.2	26.9	14.7
1995	12.9	26.4	13.6
1996	11.5	28.7	18.7
1997	9.7	28.5	17.5
1998	11.5	29.3	19.5
1999	8.4	29.7	20.8
2000	8.3	29.9	21.3
2001	14.0	32.2	21.6
2002	14.3	33.8	22.2
2003	14.2	34.8	21.9
2004	13.0	35.1	23.5
2005	13.7	38.5	28.1
2006	13.7	38.8	24.5
2007	13.4	39.0	25.3
2008	7.6	39.4	31.9
2009	9.5	39.5	31.8
2010	10.9	41.6	30.1

Note: Arab Middle East total includes Iraq, Jordan, Lebanon, Saudi Arabia, Syria, and Yemen.

Source: Compiled by Earth Policy Institute from U.S. Department of Agriculture, *Production, Supply and Distribution*, electronic database, at www.fas.usda.gov/psdonline, updated 8 October 2010.

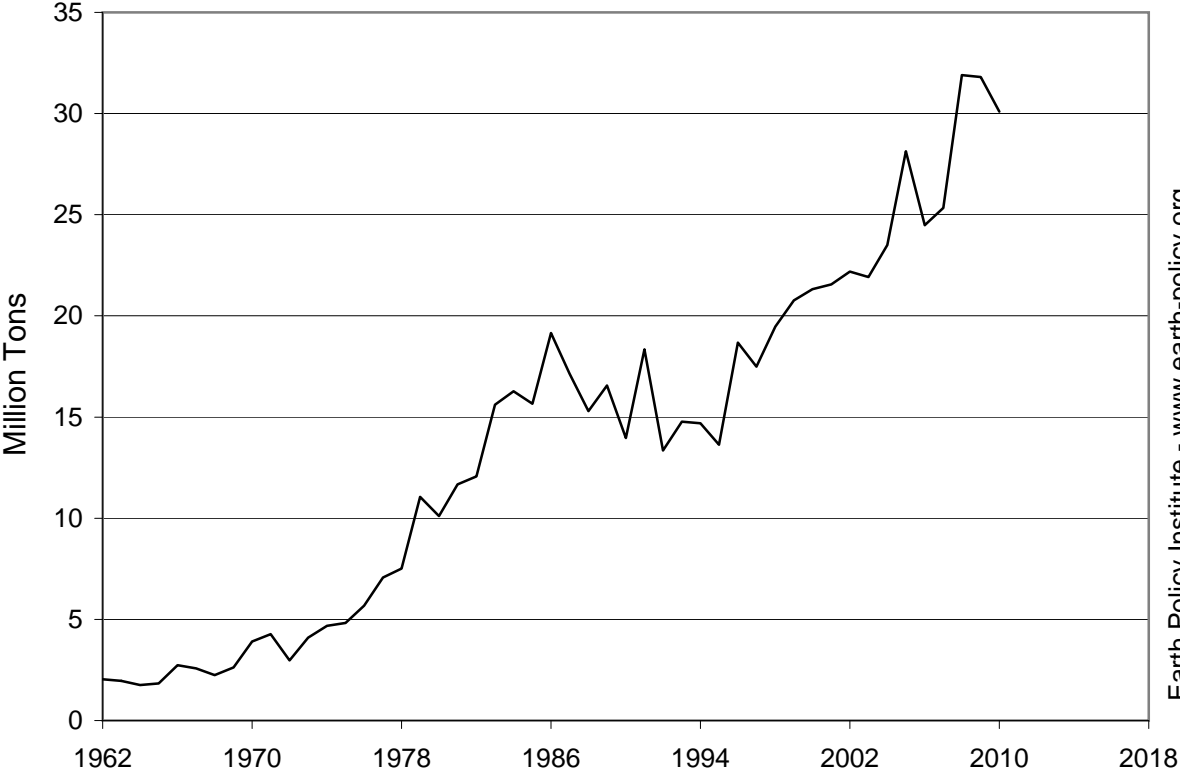
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Grain Production and Consumption in the Arab Middle East and Israel, 1962-2010



Source: EPI from USDA

Grain Imports by the Arab Middle East and Israel, 1962-2010



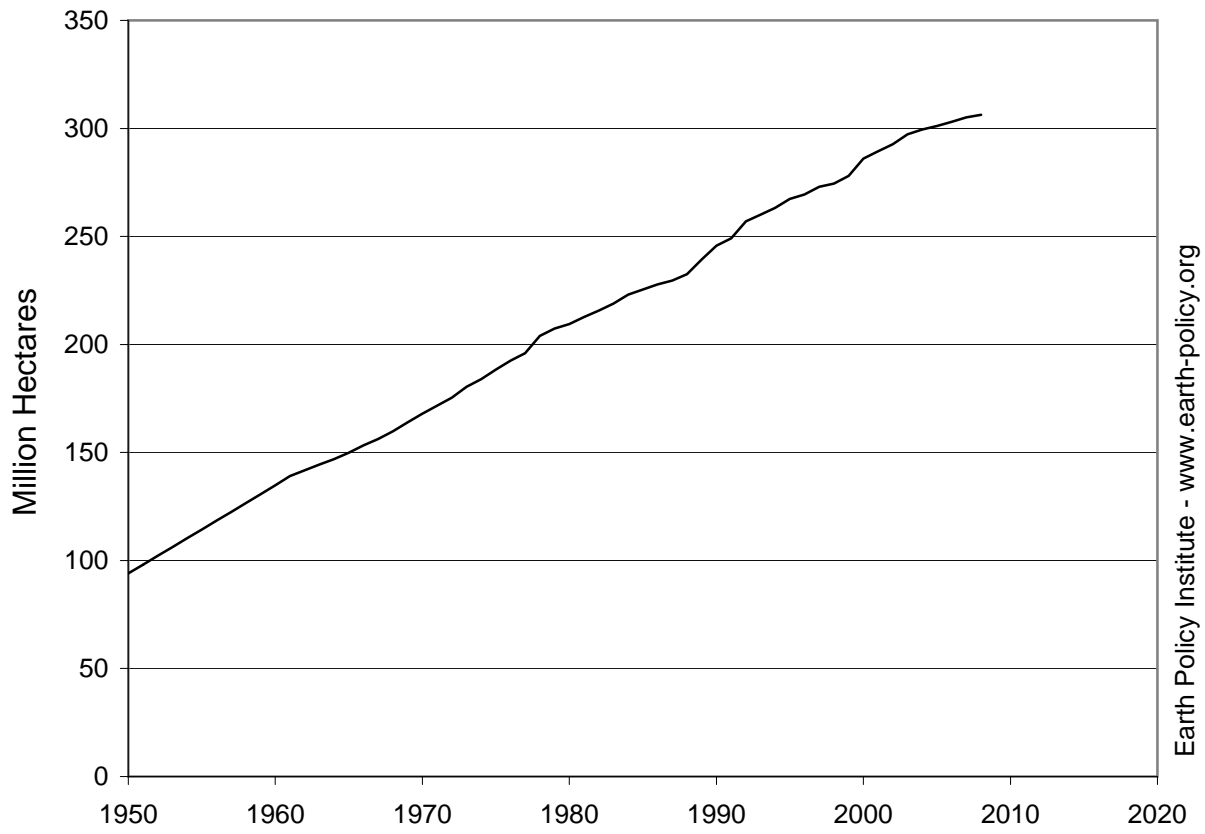
Source: EPI from USDA

World Irrigated Area and Irrigated Area Per Thousand People, 1950-2008

Year	Irrigated Area	Irrigated Area per
	Million Hectares	Thousand People Hectares
1950	94	37.2
1951	98	38.1
1952	102	39.0
1953	106	39.8
1954	110	40.6
1955	114	41.4
1956	118	42.1
1957	123	42.8
1958	127	43.4
1959	131	44.0
1960	135	44.6
1961	139	45.1
1962	142	45.1
1963	144	45.1
1964	147	45.0
1965	150	45.0
1966	153	45.1
1967	156	45.1
1968	160	45.1
1969	164	45.4
1970	168	45.6
1971	172	45.7
1972	175	45.7
1973	180	46.1
1974	184	46.1
1975	188	46.4
1976	193	46.6
1977	196	46.5
1978	204	47.6
1979	207	47.6
1980	210	47.2
1981	213	47.1
1982	216	46.9
1983	219	46.8
1984	223	46.8
1985	225	46.5
1986	228	46.2
1987	230	45.7
1988	232	45.5
1989	239	46.0
1990	246	46.4
1991	249	46.3
1992	257	47.0
1993	260	46.9
1994	263	46.8
1995	267	46.8
1996	269	46.5
1997	273	46.5
1998	274	46.1
1999	278	46.1
2000	286	46.8
2001	289	46.7
2002	293	46.7
2003	297	46.8
2004	300	46.6
2005	301	46.2
2006	303	46.0
2007	305	45.7
2008	306	45.4

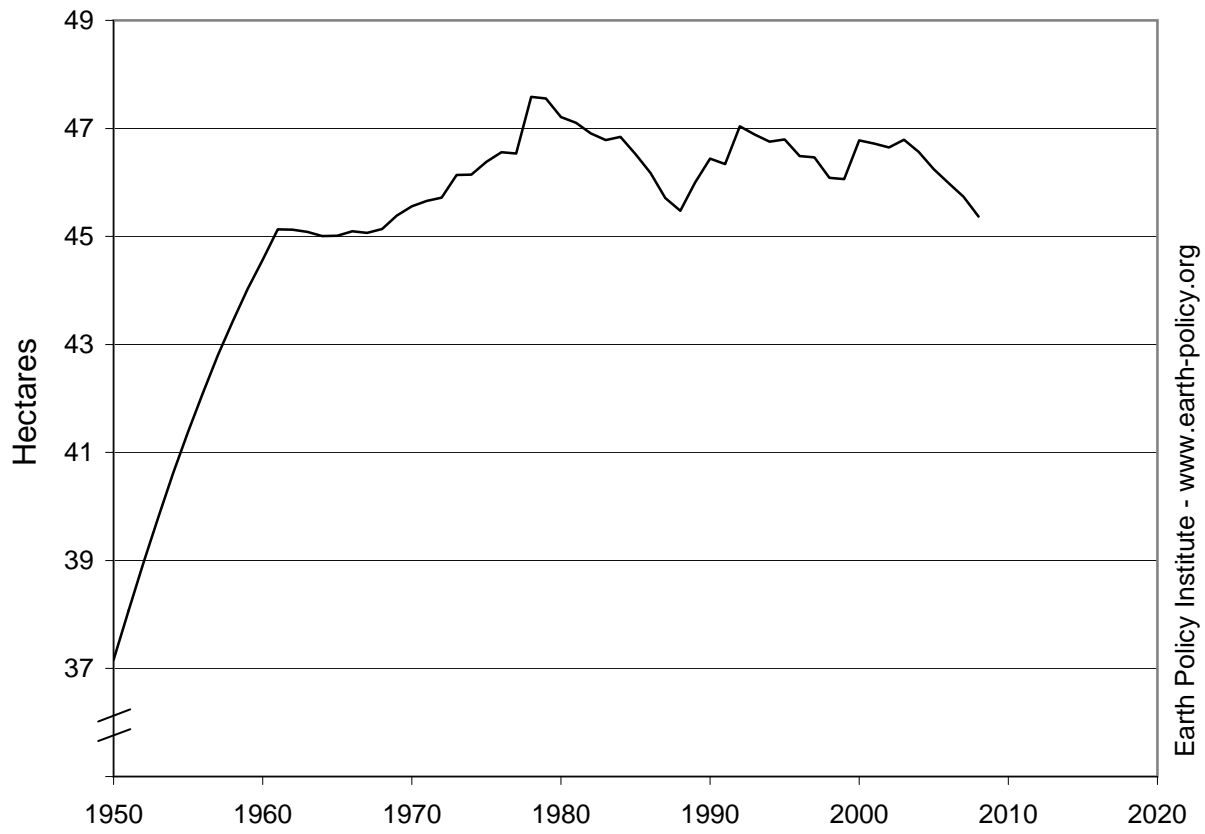
Source: 1950-60 data compiled by Lester R. Brown for "Eradicating Hunger: A Growing Challenge," in Worldwatch Institute, *State of the World 2001* (New York: W.W. Norton and Company, 2001), pp. 52-53; 1961-2008 data from U.N. Food and Agriculture Organization, *ResourceSTAT*, electronic database at <http://faostat.fao.org/site/405/default.aspx>, updated September 2010; population from U.N. Population Division, *World Population Prospects: The 2008 Revision Population Database*, at esa.un.org/unpp, updated 11 March 2009.

World Irrigated Area, 1950-2008



Source: Worldwatch; FAO

World Irrigated Area Per Thousand People, 1950-2008



Source: Worldwatch; FAO; UNPop

Irrigated Area in the United States by State and Country Total, 1964-2007

State	1964	1969	1974	1978	1982	1987	1992	1997	2002	2007
Thousand Acres										
Arizona	1,125	1,178	1,153	1,196	1,098	914	956	1,075	932	876
Arkansas	974	1,010	949	1,683	2,023	2,406	2,702	3,785	4,150	4,461
California	7,599	7,240	7,749	8,506	8,461	7,546	7,571	8,887	8,709	8,016
Colorado	2,690	2,895	2,874	3,431	3,201	3,014	3,170	3,374	2,591	2,868
Florida	1,217	1,365	1,559	1,980	1,585	1,623	1,783	1,874	1,815	1,552
Idaho	2,802	2,761	2,859	3,475	3,450	3,219	3,260	3,544	3,289	3,300
Kansas	1,004	1,522	2,010	2,686	2,675	2,463	2,680	2,696	2,678	2,763
Minnesota	18	36	78	272	315	354	370	403	455	506
Montana	1,893	1,841	1,759	2,070	2,023	1,997	1,978	2,102	1,976	2,013
Nebraska	2,169	2,857	3,967	5,683	6,039	5,682	6,312	7,066	7,625	8,559
Nevada	825	753	778	881	830	779	556	764	747	691
New Mexico	813	823	867	891	807	718	738	852	845	830
North Dakota	51	63	71	141	163	168	187	183	203	236
Oklahoma	302	524	515	602	492	478	512	509	518	535
Oregon	1,608	1,519	1,561	1,881	1,808	1,648	1,622	1,963	1,908	1,845
South Dakota	130	148	152	335	376	362	371	367	401	374
Texas	6,385	6,888	6,594	6,947	5,576	4,271	4,912	5,764	5,075	5,010
Utah	1,092	1,025	970	1,169	1,082	1,161	1,143	1,218	1,091	1,134
Washington	1,150	1,224	1,309	1,639	1,638	1,519	1,641	1,787	1,823	1,736
Wyoming	1,571	1,523	1,460	1,662	1,565	1,518	1,465	1,750	1,542	1,551
Other	1,639	1,927	2,009	3,220	3,795	4,546	5,475	6,326	6,938	7,743
U.S. Total	37,057	39,122	41,243	50,350	49,002	46,386	49,404	56,289	55,311	56,599

Note: One acre equals 0.4 hectares.

Source: Compiled by Earth Policy Institute, with data for 1964-1982 from "Table 1 - Irrigated Farms in the Censuses of Agriculture: 1964 Through 1987," *1987 Census of Agriculture: Farm and Ranch Irrigation Survey (1988)* (Washington, DC: U.S. Department of Agriculture (USDA), 1989), p. 1; 1992-2007 from "Table 1 - Irrigated Farms in the Censuses of Agriculture: 2007 and Earlier Censuses," in *2007 Census of Agriculture: Farm and Ranch Irrigation Survey (2008)* (Washington, DC: USDA, November 2009), pp. 3-4.

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Countries Overpumping Aquifers in 2010

Country	Population Million
Afghanistan	29
China	1,354
India	1,214
Iran	75
Iraq	31
Israel	7
Jordan	6
Lebanon	4
Mexico	111
Morocco	32
Pakistan	185
Saudi Arabia	26
South Korea	49
Spain	45
Syria	23
Tunisia	10
United States	318
Yemen	24
Total	3,545

Source: Compiled by Earth Policy Institute with population data from U.N. Population Division, *World Population Prospects: The 2008 Revision Population Database*, electronic database, at esa.un.org/unpp, updated 11 March 2009.

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