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# **The Arab-Israeli Military Balance in 2002**

## **Part Two**

### **Comparative Land, Air, Air Defense, and Naval Forces**

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Table 1.1

The Arab-Israeli Balance: An Past Israeli View of the Arab Threat as One Including All of the Arab Forces in the Region

<u>Category/ Weapon</u>	<u>1984</u>			<u>1994</u>		
	Arab	Israel	Ratio	Arab	Israel	Ratio
A. Land Forces						
Divisions						
Armor	10	11	0.9	16	12	1.3
Mechanized	10	-	-	14	-	-
Infantry	3	-	-	3	4	0.8
Total	23	11	2.1	33	16	2.1
Independent Brigades	51	20	2.5	44	13	3.4
Tanks	8065	3650	2.2	10400	3850	2.7
Other Armored Vehicles	8470	8000	1.1	13250	8100	1.6
Artillery & Mortars	6050	1000	6.0	6100	1300	4.7
B. Air Forces and Air Defense						
Interceptors						
High Quality	130	40	3.3	215	75	2.9
Others	620	-	-	478	-	-
Total	750	40	18.8	693	75	9.5
Strike/FGA						
High Quality	496	445	1.1	72	204	0.4
Others	354	185	1.9	467	463	1.1
Total	850	530	1.6	539	667	1.2
Total Combat Aircraft	1635	670	2.4	1236	742	1.8
Helicopters						
Attack	161	55	2.9	280	115	2.4
Other	324	133	2.4	362	138	2.6
Total	485	188	2.6	642	253	2.5
Military Airfields	48	11	4.4	65	11	5.9
C. Naval Forces						
Major Missile Surface	8	0	-	14	0	-
Major Non-Missile Surface	8	0	-	2	0	-
Submarines	18	3	6.0	17	3	5.7
Missile Patrol Boats	67	24	2.8	67	19	3.5
Landing Craft						

Source: Adapted by the Author from Shlomo Gazit, Zeev Eytan, The Middle East Military Balance, 1984-1994, JCSS/Westview, Tel Aviv/Boulder, 1995, pp. 494-499. Note that the JCSS does not count the balance in this way any longer, and only provides country numbers for either the entire Arab-Israeli subregion or a military balance for Israel and Syria.

Table 3.1

The Arab-Israeli Balance:  
Forces in the Arab-Israeli "Ring" States in 2002-Part One

<u>Category/Weapon</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>	
<u>Defense Budget</u>						
(In 2000, \$Current Billions)	\$9.0	\$.838		\$0.499	\$2.1	\$0.594
<u>Arms Imports: 1996-1999 (\$M)</u>						
New Orders	4,500	500		800	6,800	100
Deliveries	4,500	300		300	3,800	100
<u>Mobilization Base</u>						
Men Ages 13-17	284,000	1,076,000		280,000	3,707,000	216,000
Men Ages 18-22	272,000	883,000		247,000	3,312,000	194,000
<u>Manpower</u>						
Total Active	163,500	321,000		100,240	443,000	71,830
(Conscript)	107,500	-		-	322,000+	22,600
Total Reserve	425,000	354,000		35,000	254,000	-
Total	588,500	675,000		135,240	697,000	71,830
Paramilitary	8,050	108,000		10,000	325,000	13,000
<u>Land Forces</u>						
Active Manpower	120,000	215,000		84,700	320,000	70,000
(Conscripts)	85,000	-		-	250,000+	22,600
Reserve Manpower	400,000	280,000		30,000	150,000	-
Total Active & Reserve Manpower	520,000	495,000		114,700	470,000	70,000
Main Battle Tanks	3,930	4,7000 (1200)		1,058 (78)	3,860	327
AIFVs /Armored Cars/Lt. Tanks	408	3,185		45	987(220)	125
APCs/Recce/Scouts	5,900	2,450		1,130	3,212(1,075)	1,338
WWII Half-Tracks	500(3,500)	0		0	0	0
ATGM Launchers	1,325	6,050		640	2,350	20
SP Artillery	855	450		418	478	0
Towed Artillery	520	1,630		113	971	151
MRLs	198	480		0	156	23
Mortars	6,470	658		800	2,400	377
SSM Launchers	20	68		0	18	0
AA Guns	850	2,060		416	874	10
Lt. SAM Launchers	1,298	4,055		944	671	-

Table 3.1

The Arab-Israeli Balance:  
Forces in the Arab-Israeli "Ring" States in 2002-Part Two

<u>Category/Weapon</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>
<u>Air &amp; Air Defense Forces</u>					
Active Air Force Manpower	37,000	40,000	15,000	29,000	1,000
Active Air Defense Command	0	60,000	0	75,000	0
Air Force Reserve Manpower	20,000	70,000	-	20,000	-
Air Defense Command Reserve Manpower	0	-	0	70,000	0
<u>Aircraft</u>					
Total Fighter/FGA/Recce	446(250)	589	101	580	(16)
Fighter	0	319	31	324	0
FGA/Fighter	405	0	0	0	0
FGA	25	154	70	133	0
Recce	10	14	0	20	0
Airborne Early Warning (AEW)	6	0	0	5	0
Electronic Warfare (EW)	37	10	0	10	0
Fixed Wing	37	0	0	6	-
Helicopter	0	10	0	4	-
Maritime Reconnaissance (MR)	3	0	0	2	0
Combat Capable Trainer	26	111	2	64	3
Tanker	3	0	0	0	0
Transport	39	25	12	32	2
<u>Helicopters</u>					
Attack/Armed	133	87	20	129	0
SAR/ASW	6	-	-	-	-
Transport & Other	160	110	49	158	30
Total	299	110	69	287	30
<u>SAM Forces</u>					
Batteries	29	150	14	38+	0
Heavy Launchers	79	848	80	610	0
Medium Launchers	0	60	0	36-54	0
AA Guns	0	4,000	-	90	-

Table 3.1

The Arab-Israeli Balance:  
Forces in the Arab-Israeli "Ring" States in 2002-Part Three

<u>Category/Weapon</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>
<u>Naval Forces</u>					
Active Manpower	6,500	6,000	540	19,000	1,200
Reserve Manpower	5,000	4,000	-	14,000	0
Total Manpower	11,500	10,000	540	33,000	1,200
Naval Commandos/Marines	300	0	0	0	0
Submarines	3	0	0	4	0
Destroyers/Frigates/Corvettes	3	2	0	11	0
Missile	3	2	0	10	0
Other	0	4	0	1	0
Missile Patrol	10	10	0	25	0
Coastal/Inshore Patrol	34	8	3	15	7
Mine	0	5	0	13	0
Amphibious Ships	1	3	0	3	0
Landing Craft/Light Support	4	4	(3)	9	2
Fixed-wing Combat Aircraft	0	0	0	0	0
MR/MPA	0	0	0	0	0
ASW/Combat Helicopter	0	16	20	24	0
Other Helicopters	-	-	-	-	-
	-	-	-	-	-

Note: Figures in parenthesis show additional equipment known to be in long-term storage. Some Syrian tanks shown in parenthesis are used as fire points in fixed positions.

Source: Adapted by Anthony H. Cordesman from data provided by US experts, and the IISS, Military Balance

Table 3.2Arab-Israeli Military Demographics and Forces in 2002

<u>Country</u>	<u>Total Population</u>	<u>Males Reaching Military Age Each Year</u>	<u>Males Between the Ages of</u>			<u>Males Between 15 and 49</u>	
			<u>13 and 17</u>	<u>18 and 22</u>	<u>23 and 32</u>	<u>Total</u>	<u>Medically Fit</u>
Egypt	70,615,000	712,983	3,707,000	3,313,000	5,150,000	18,562,994	12,020,059
Gaza	1,178,119*	-	-	-	-	-	-
Israel	6,336,000	49,206	284,000	272,000	525,000	1,522,003	1,245,757
Jordan	6,869,000	57,131	280,000	247,000	454,000	1,458,571	1,034,109
Lebanon	3,137,000	-	216,000	194,000	397,000	980,412	605,322
Palestinian	3,000,000*	-	163,000	140,000	233,000	-	-
Syria	16,493,000	200,859	1,076,000	883,000	1,274,000	4,384,528	2,448,630
West Bank	2,090,713*	-	-	-	-	-	-
Iran	68,281,000	823,040	4,735,000	3,960,000	5,959,000	18,319,328	10,872,407
Iraq	22,300,000	274,035	1,538,000	1,324,000	1,960,000	5,902,215	3,301,880

Source: Adapted by Anthony H. Cordesman, CIA World Factbook, 2001, IISS, Military Balance, 2001-2002,

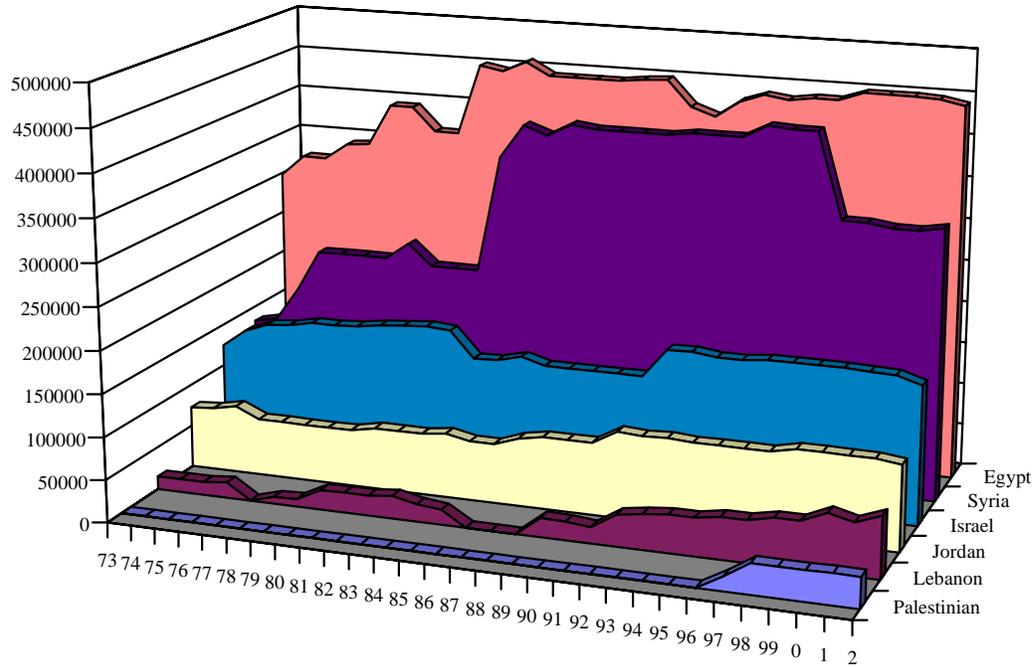
Note: Totals include non-nationals, Total population, males reaching military age, and Males between 15 and 49 are generally CIA data, the rest are IISS data. \* Totals for Palestinians are IISS, totals for Gaza and West Bank are CIA.

<u>Country</u>	<u>Total Active Manpower</u>	<u>Total Active Army Manning</u>	<u>Tanks</u>	<u>OAFVs</u>	<u>Artillery</u>	<u>Combat Aircraft</u>	<u>Armed Helicopters</u>
Egypt	443,000	320,000	3,860	4,199	1,605	580	129
Israel	163,500	120,000	3,930	6,308	1,573	250	133
Jordan	100,240	84,700	1,058	1,175	531	101	20
Lebanon	71,830	65,000	327	1,463	174	(3)	0
Palestinian	(35,000)	(35,000)	-	45	-	-	-
Syria	321,000	215,000	4,700	5,635	2,560	589	87
Iran	513,000	325,000	1,565	1,455	3,284	283	100
Iraq	424,000	375,000	2,200	3,700	2,250	316	100
Libya	76,000	45,000	985	2,383	1,476	372	48

Note: Totals count all "active" equipment, much of which is not operational. They do not include stored equipment, but are only approximate estimates of combat-ready equipment holdings. Light tanks, APCs, AIFVs, armored recce vehicles, and misc. AFVs are counted as OAFVs (Other Armored Fighting Vehicles). Artillery counts towed and self-propelled tube weapons of 100-mm+ and multiple rocket launchers, but not mortars. Only fixed wing combat aircraft in combat, COIN, or OCU units are counted, not other trainers or aircraft.

Source: Adapted by Anthony H. Cordesman, CIA World Factbook, various editions and IISS, Military Balance, various editions

Figure 3.1  
Total Arab-Israeli Active Military Manpower: 1973-2002

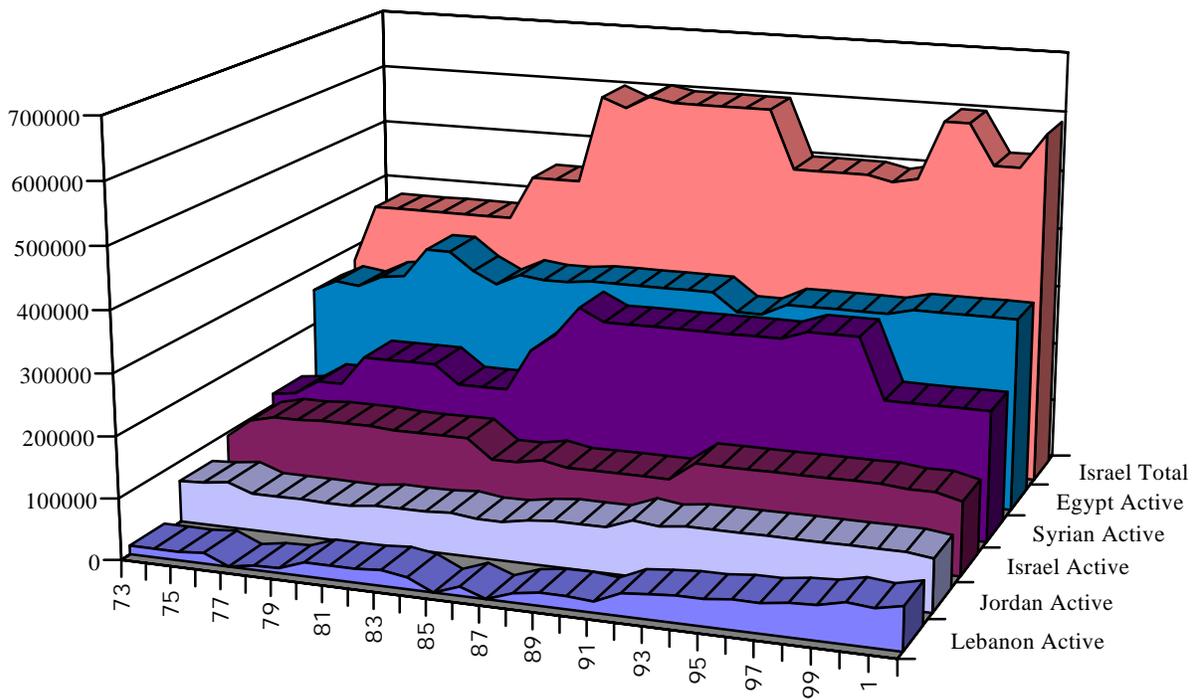


Source: Adapted by Anthony H. Cordesman from the IISS, Military Balance, various years. Some data adjusted or estimated by the author.

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Figure 3.2

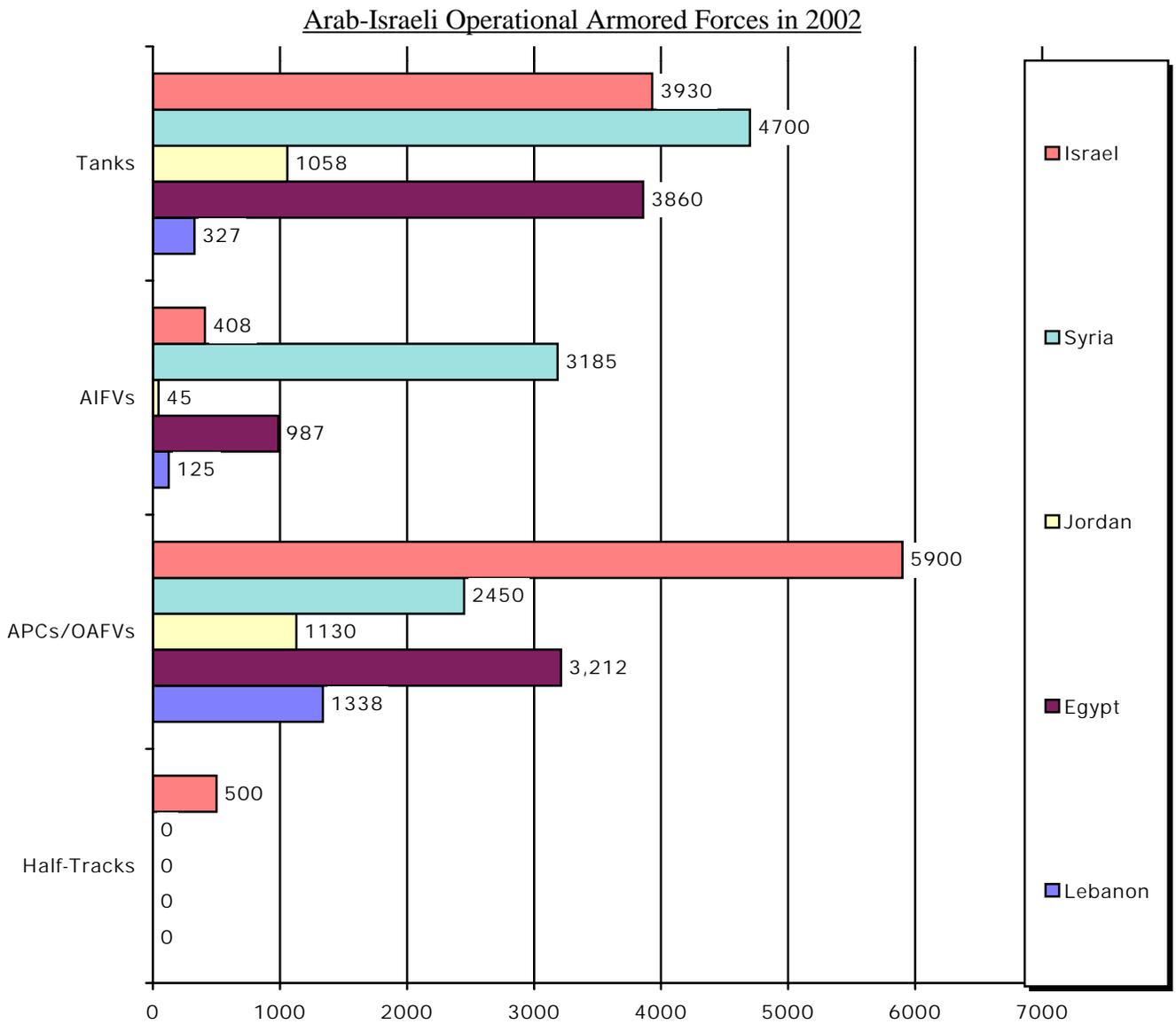
Arab Active versus Israeli Mobilized Army Manpower: 1973-2002



Source: Adapted by Anthony H. Cordesman from the IISS, Military Balance, various years. Some data adjusted or estimated by the author.

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Figure 3.3

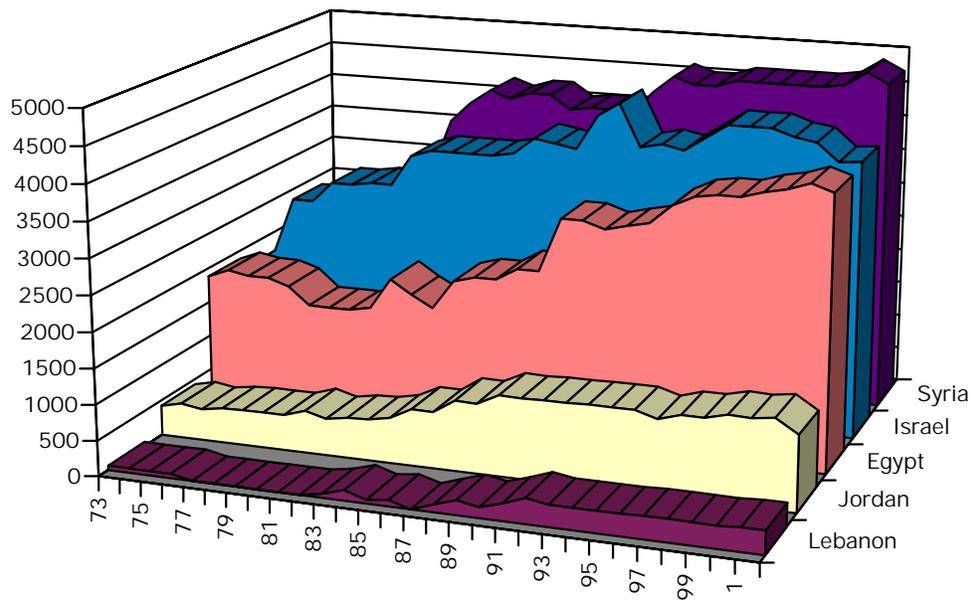


	Half-Tracks	APCs/OAFVs	AIFVs	Tanks
Israel	500	5900	408	3930
Syria	0	2450	3185	4700
Jordan	0	1130	45	1058
Egypt	0	3,212	987	3860
Lebanon	0	1338	125	327

Source: Adapted by Anthony H. Cordesman from the IISS, Military Balance, 2001-2002.

Figure 3.4

Arab-Israeli Main Battle Tanks: 1973-2002



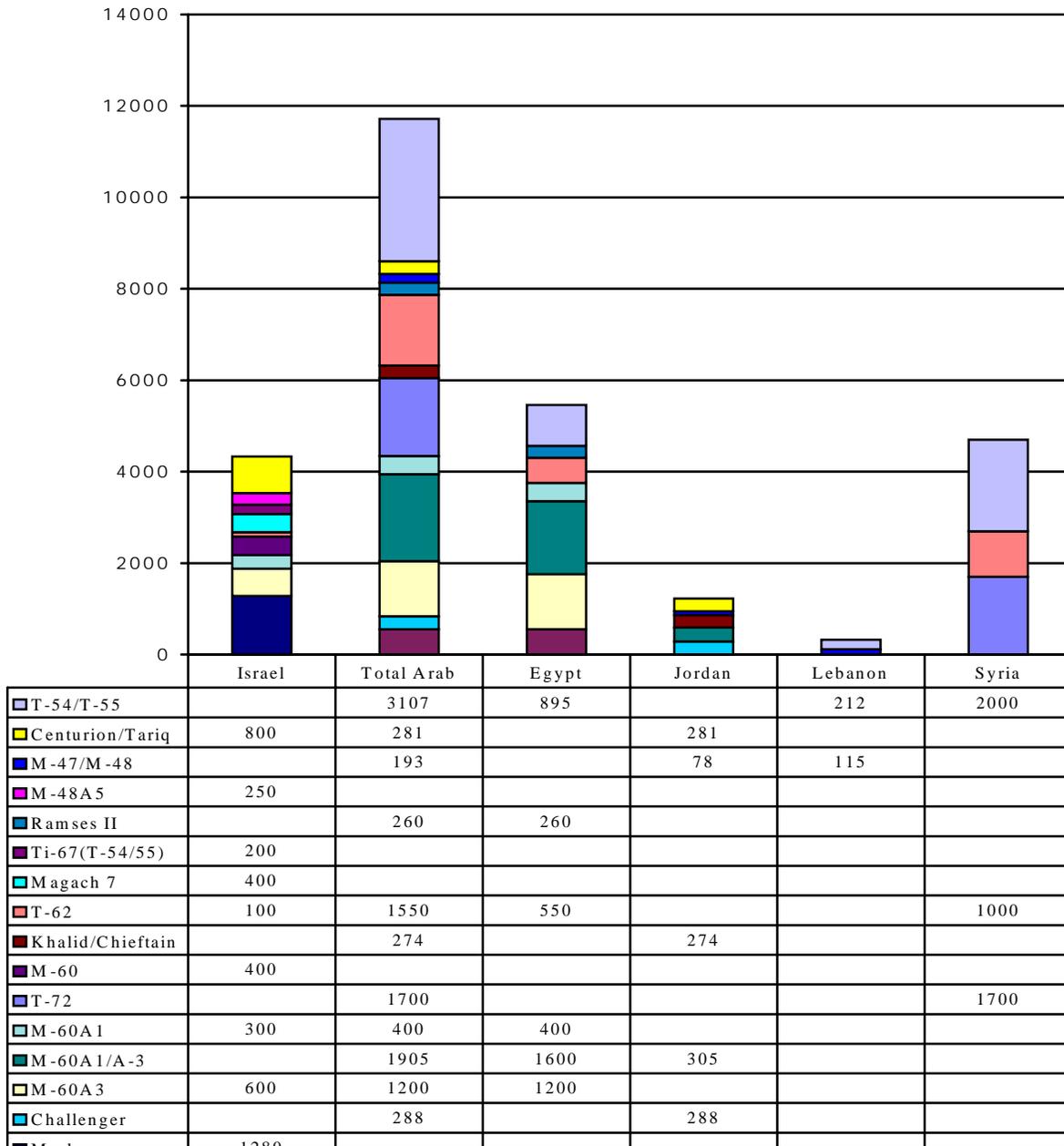
Note: The totals include large numbers of vehicles that are in storage or are fixed in place. In 2000, these included 300 M-47/M-48A5s for Jordan, 1,200 tanks for Syria and an unknown number for Egypt, Israel, and Lebanon.

Source: Adapted from the IISS, Military Balance, various years. Some data adjusted or estimated by the author. Data differ significantly from estimated by US experts.

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Figure 3.5

Israel Versus Egypt, Syria, Jordan, and Lebanon: Tanks in Total Inventory by Type: 2002  
(Includes large numbers of tanks in storage or fixed positions)

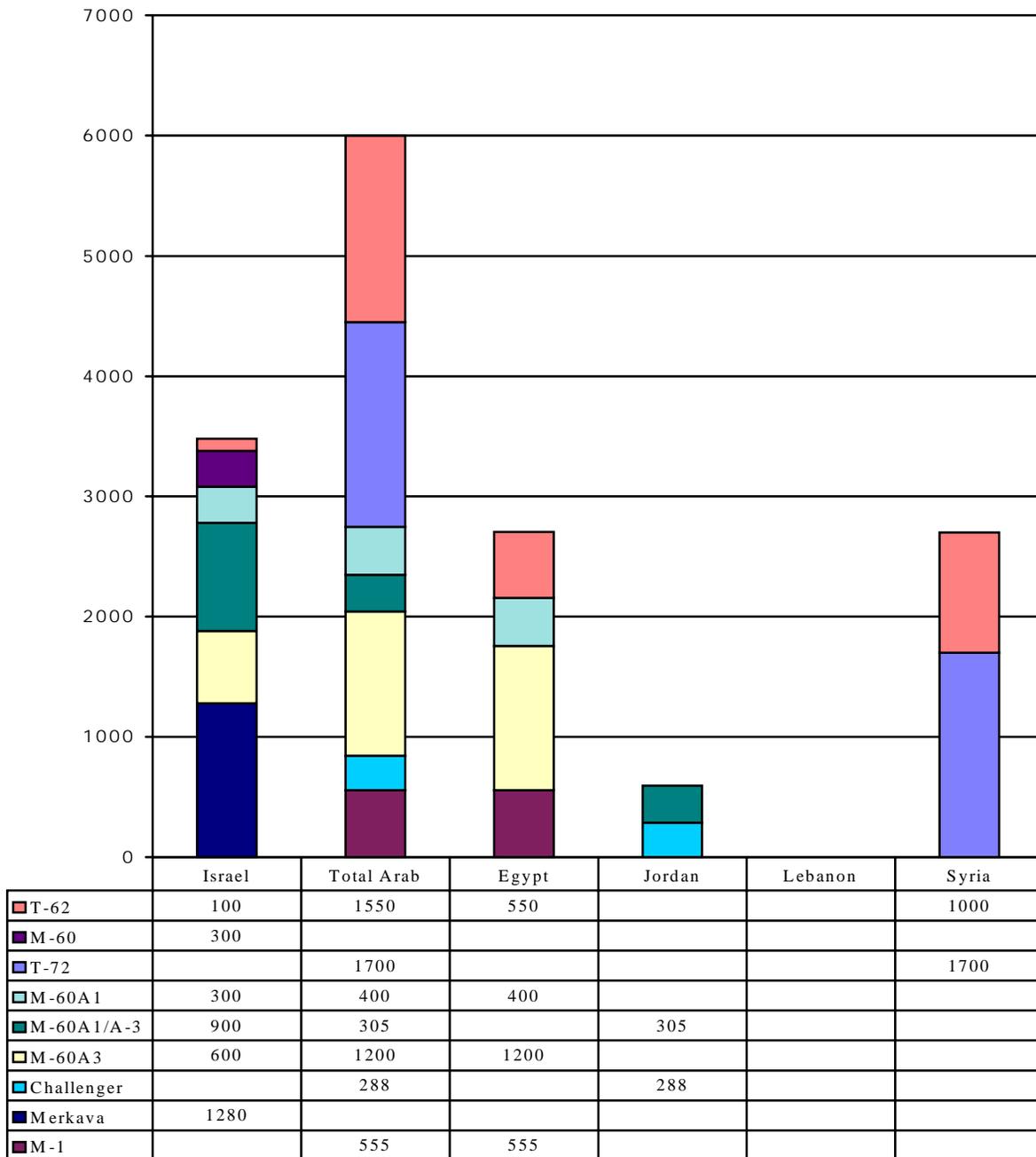


Note: The totals include large numbers of vehicles that are in storage or are fixed in place. In 2000, these included 300 M-47/M-48A5s for Jordan, 1,200 tanks for Syria and an unknown number for Egypt, Israel, and Lebanon.

Adapted from the IISS, Military Balance, various years. Some data adjusted or estimated by the author. Data differ significantly from estimated by US experts.

Figure 3.6

Israel Versus Egypt, Syria, Jordan, and Lebanon: High Quality Tanks by Type  
 (High Quality Tanks include T-62s, T-72s, M-60s, M-1s, Merkavas, Challengers)

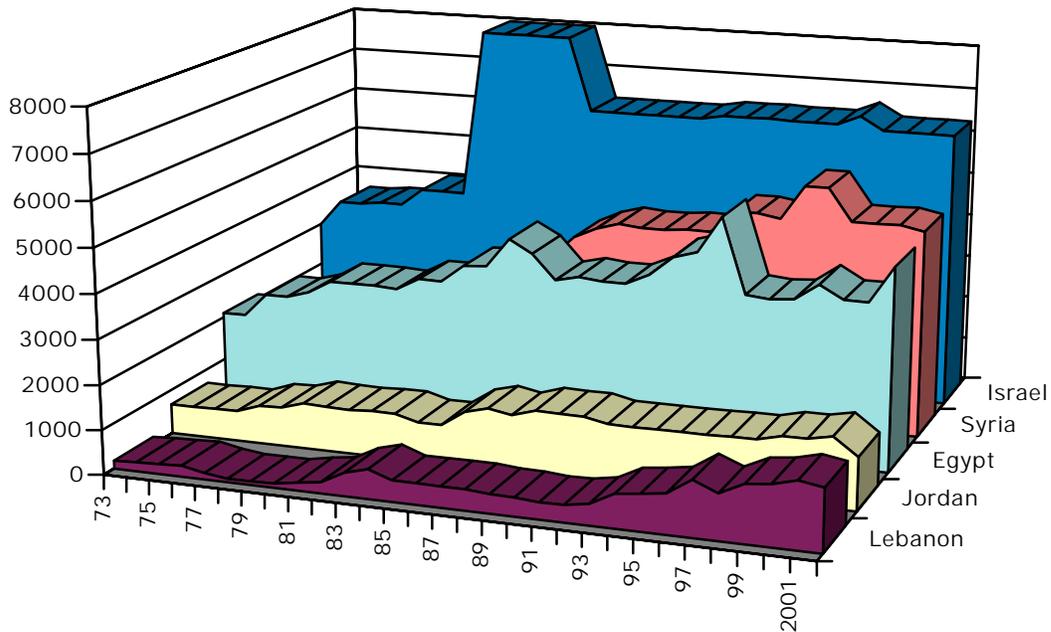


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Figure 3.7

Arab-Israeli Other Armored Fighting Vehicles (Lt. Tanks, AFVs, APCs, Scouts, Recce, OAFVs): 1973-2002



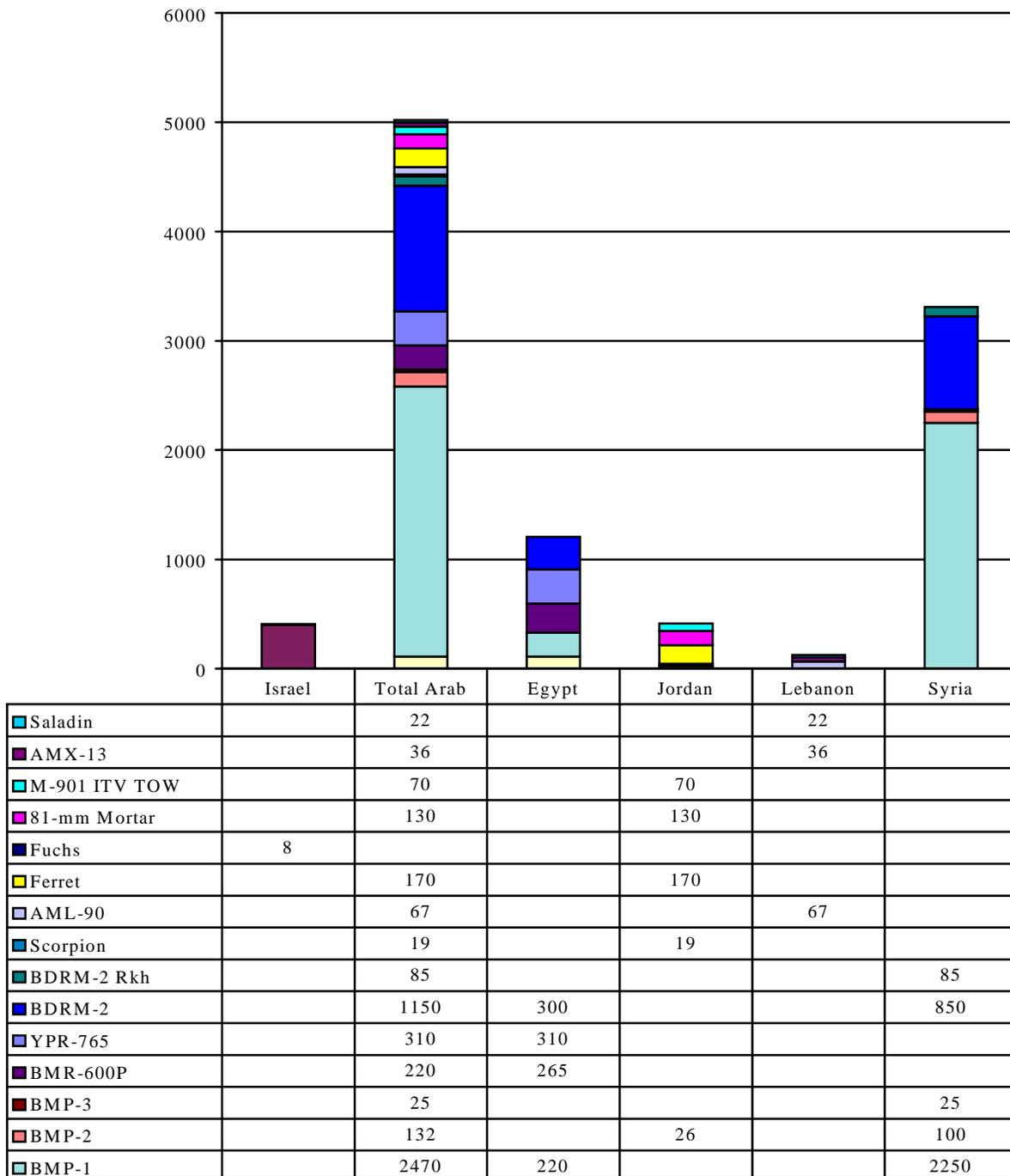
Note: Includes APCs, scouts cars, half-tracks, mechanized infantry fighting vehicles, reconnaissance vehicles and other armored vehicles other than tanks. The totals include large numbers of vehicles that are in storage or not operational. After 1986, the totals do not count some 4,000 obsolete half-tracks Israel still held in inventory, and many of which were operational in the reserves or undemanding support roles. In 2001, the totals included 3,000-3,500 half tracks for Israel, 220 BMP-1s and 1,075 BTR-60/OT-62s for Egypt, and an unknown number for Lebanon, and Syria.

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Source: Adapted by Anthony H. Cordesman from the IISS, Military Balance, various years. Some data adjusted or estimated by the author

Figure 3.8

Israel Versus Egypt, Syria, Jordan, and Lebanon: "True AFVs" in 2002  
 (AFVs include Light Tanks, MICVs, AIFVs, and Reconnaissance)

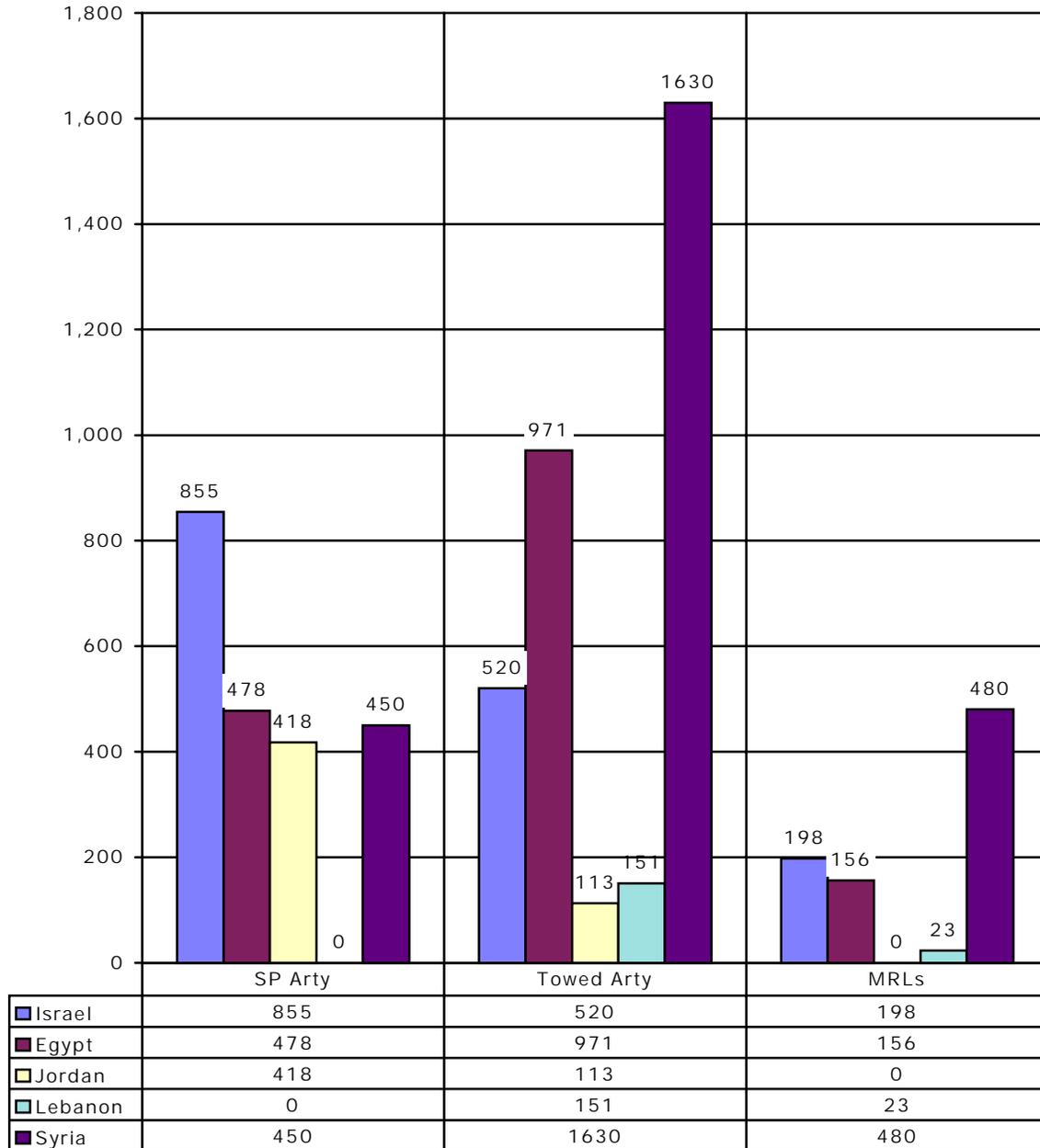


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Figure 3.10

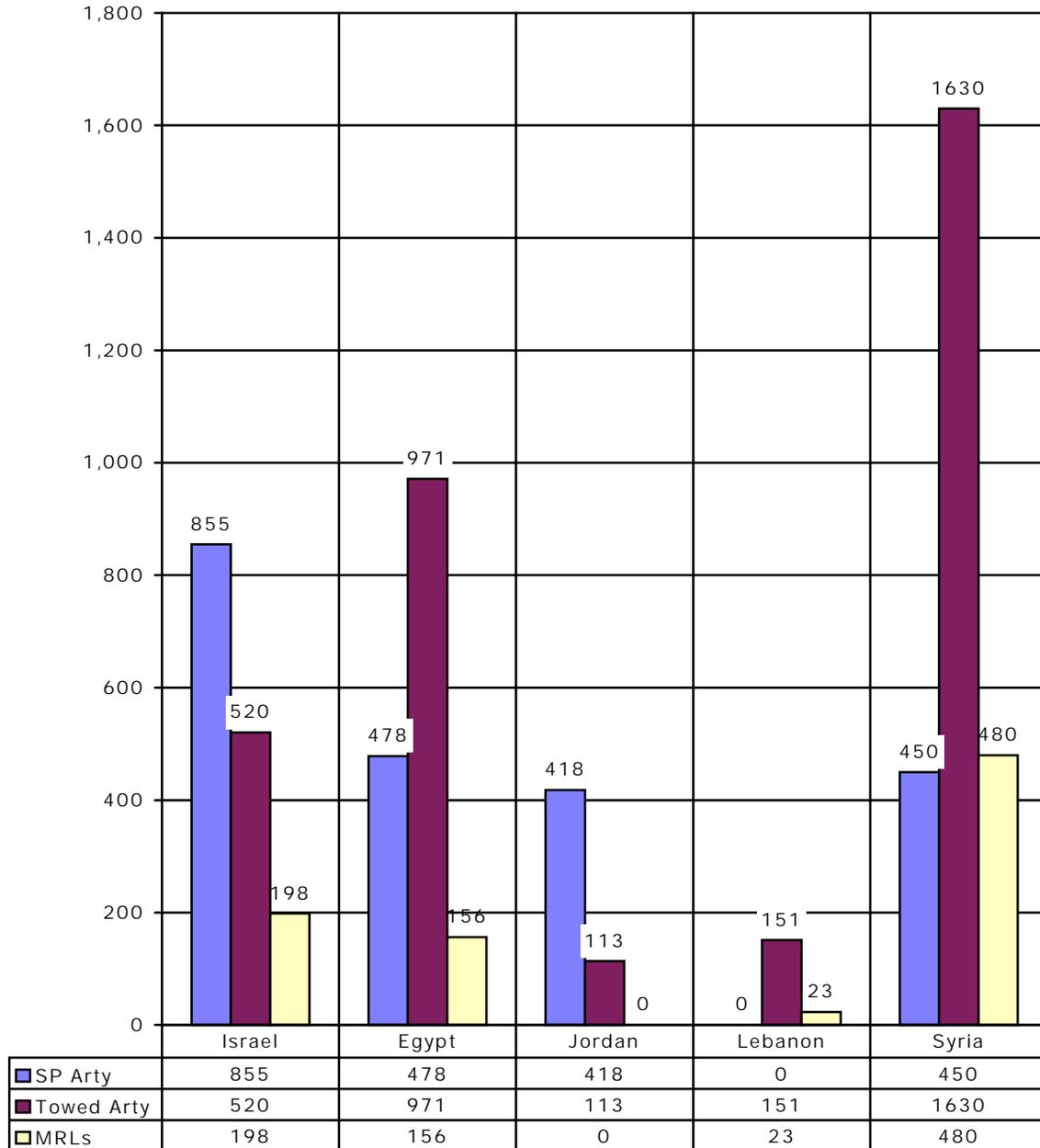
Arab-Israeli Artillery Forces by Category of Weapon in 2002



Source: Prepared by Anthony H. Cordesman, based upon the IISS Military Balance and discussions with US experts.

Figure 3.11

Arab-Israeli Artillery Forces By Country in 2002



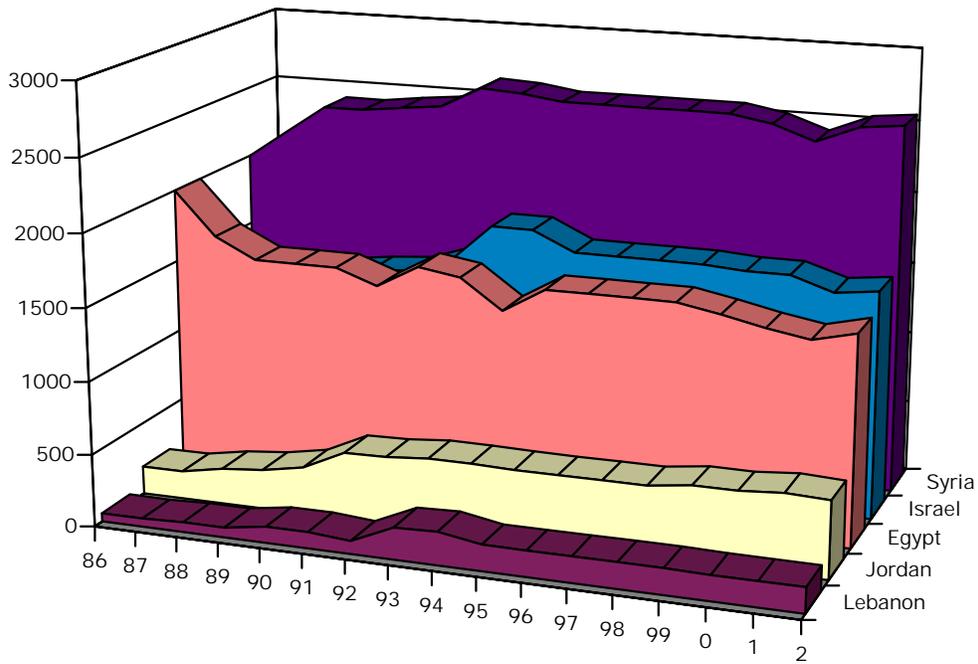
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Figure 3.12

Arab-Israeli Total Artillery Strength 1986-2002

(Towed and Self Propelled Tube Artillery of 100-mm+ and Multiple Rocket Launchers)



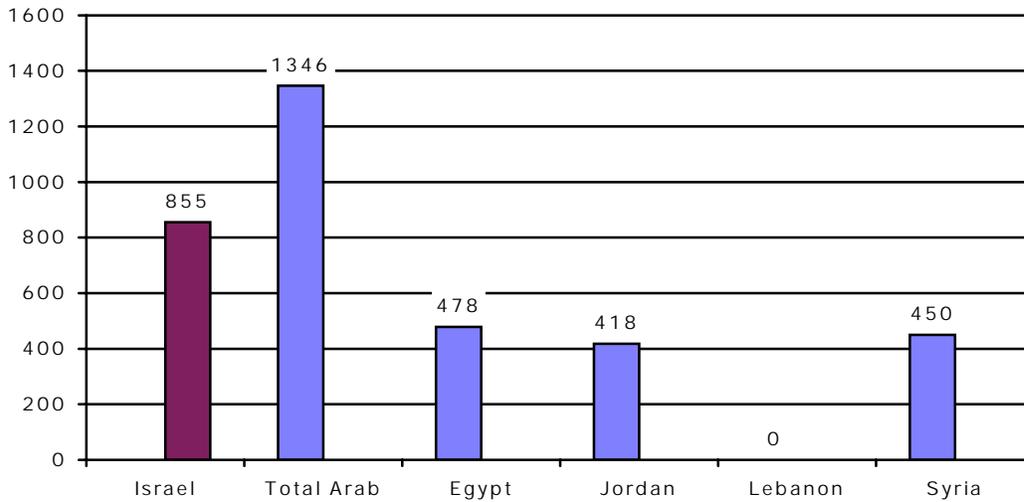
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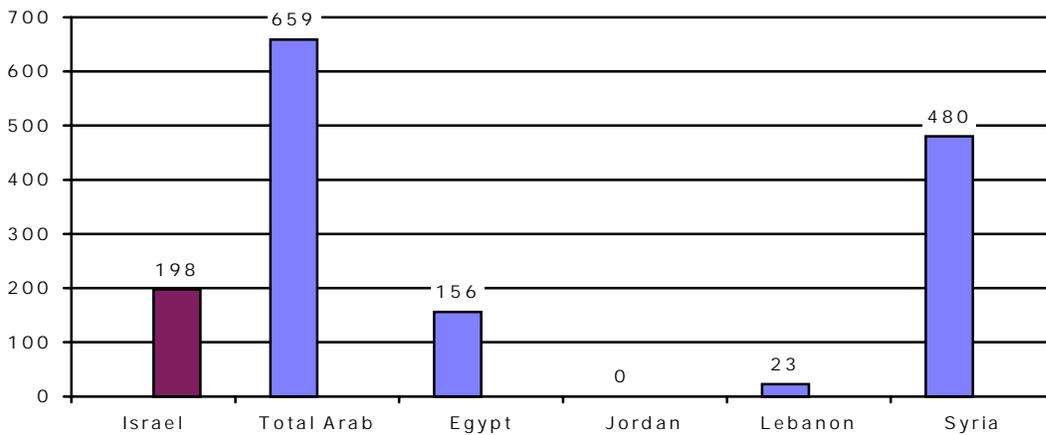
Figure 3.13

Israel Versus Egypt, Syria, Jordan, and Lebanon: High Performance Artillery in 2002

**Modern Self Propelled Artillery**



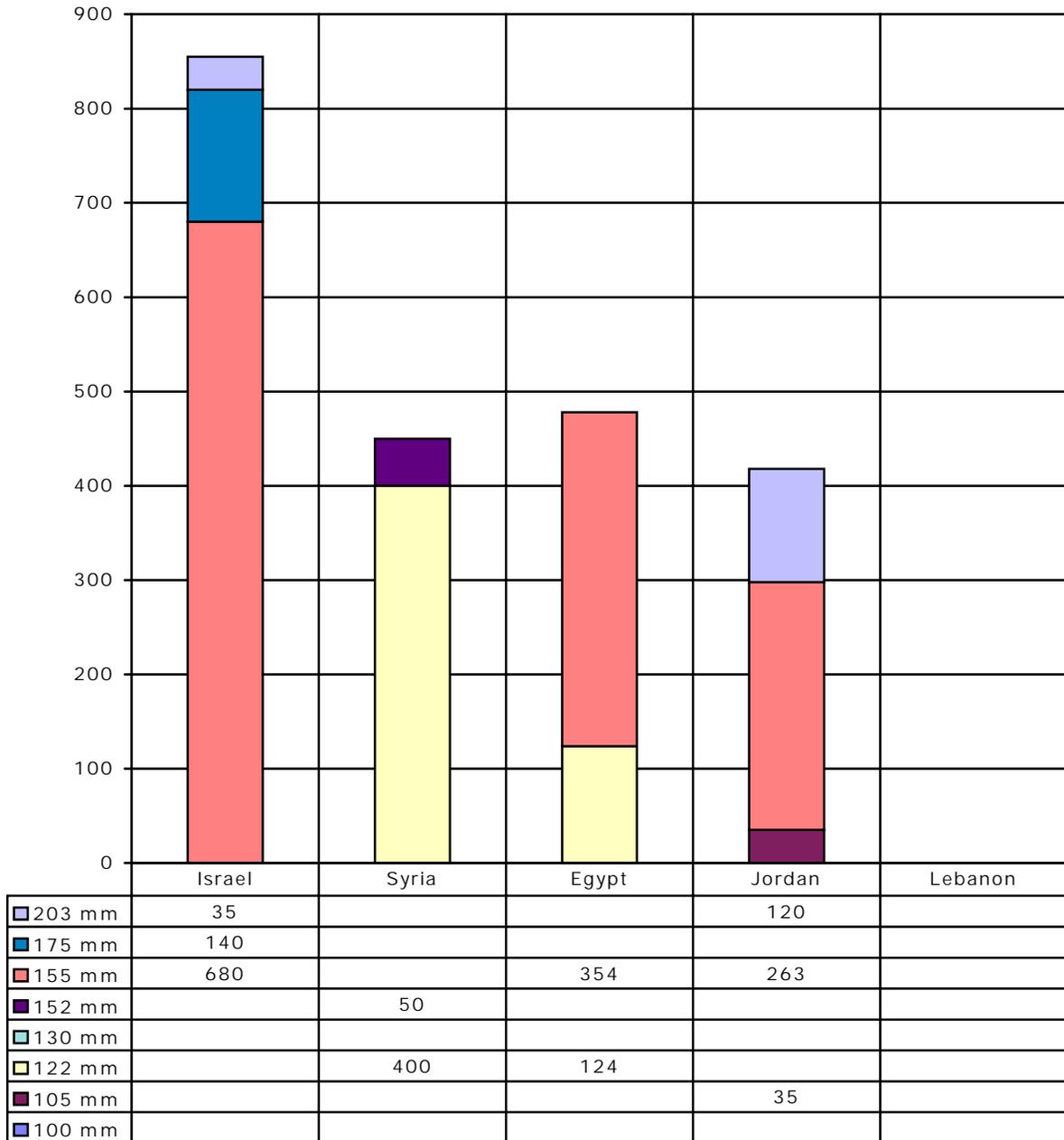
**Multiple Rocket Launchers**



Source: Prepared by Anthony H. Cordesman, based upon the IISS Military Balance and discussions with US and regional experts.

Figure 3.14

Arab-Israeli Self-Propelled Artillery By Caliber in 2002

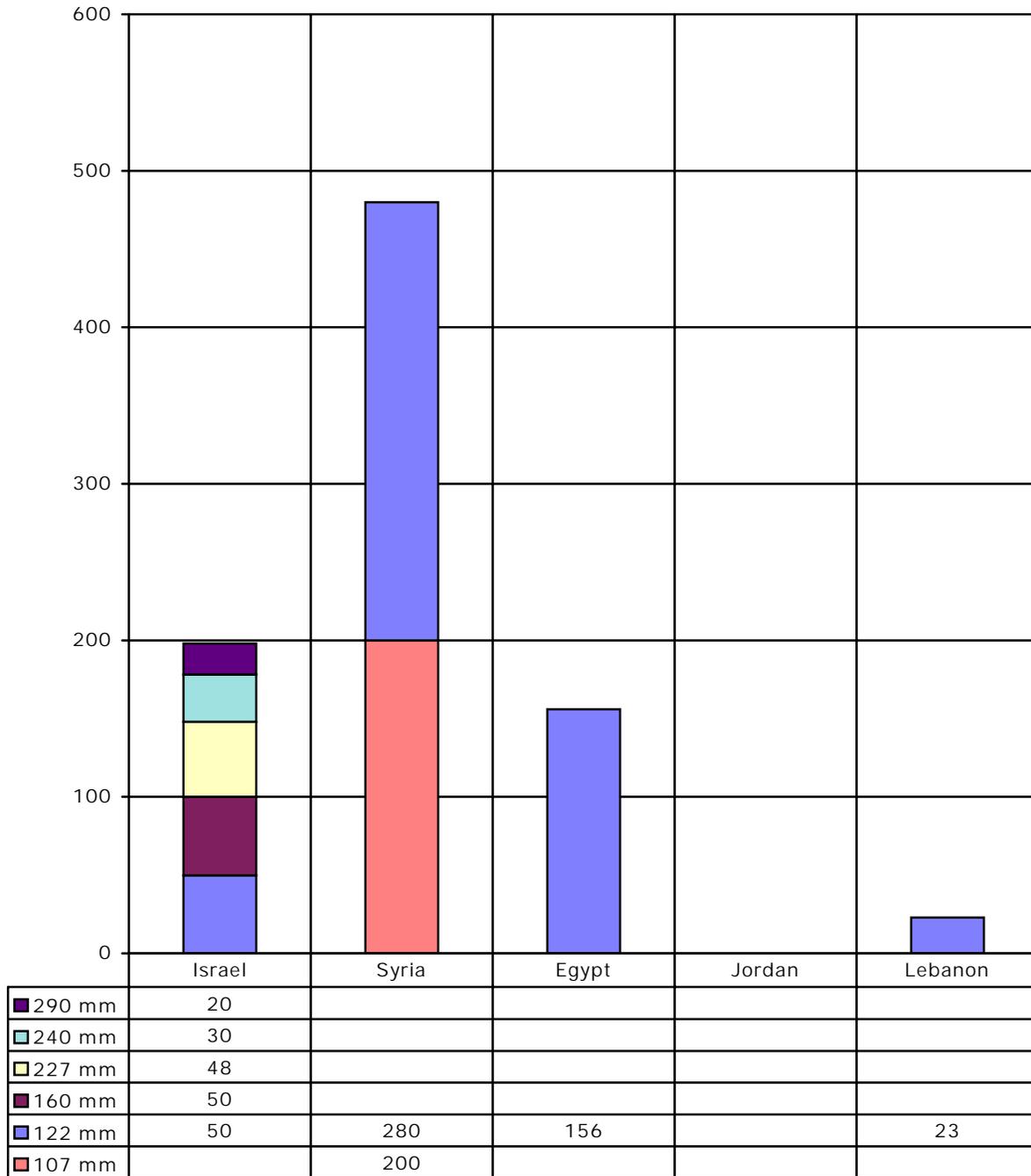


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Figure 3.16

Arab-Israeli Multiple Rocket Launchers By Caliber in 2002

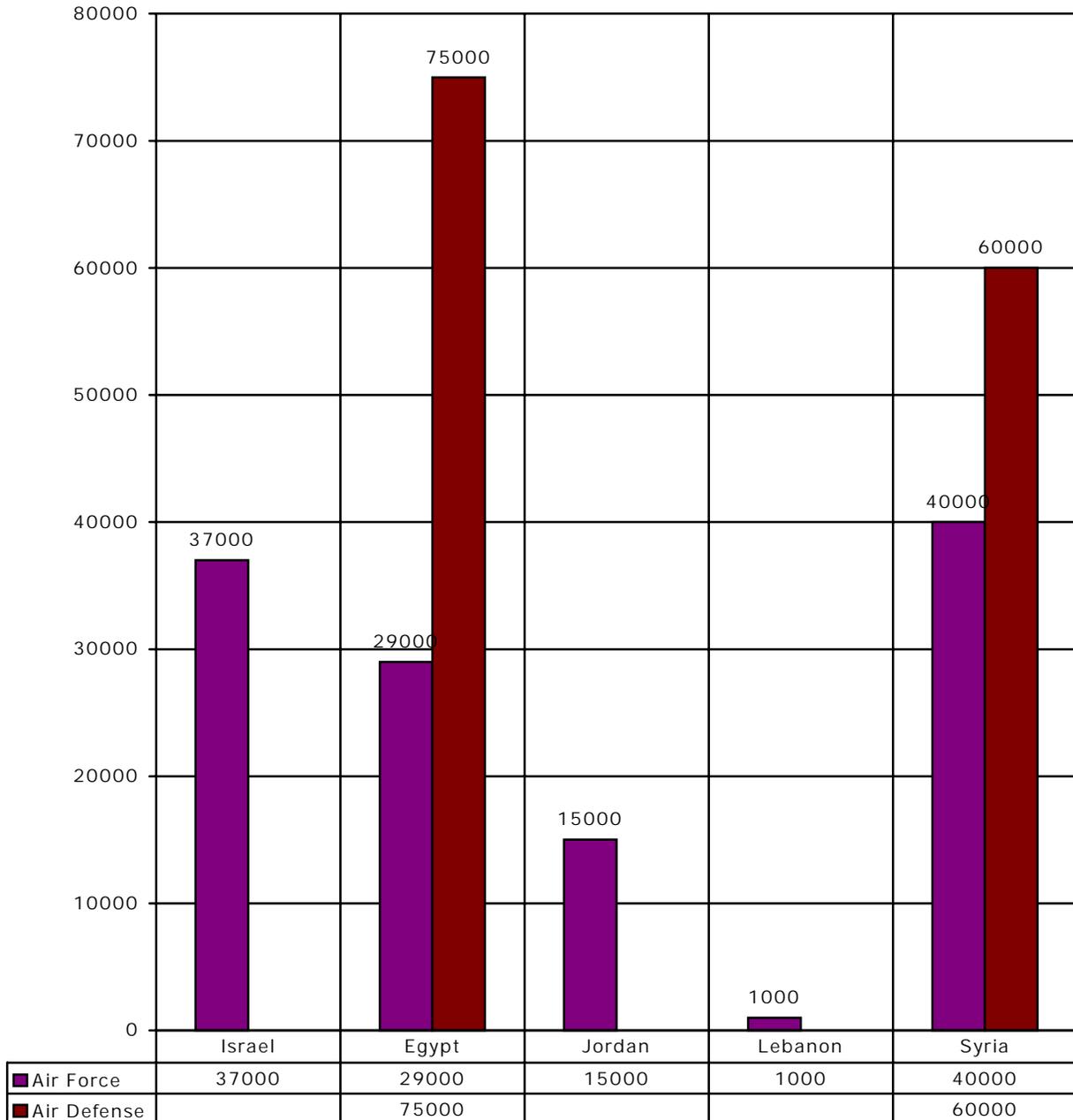


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Figure 3.17

Arab-Israeli Air Force and Air Defense Manpower in 2002



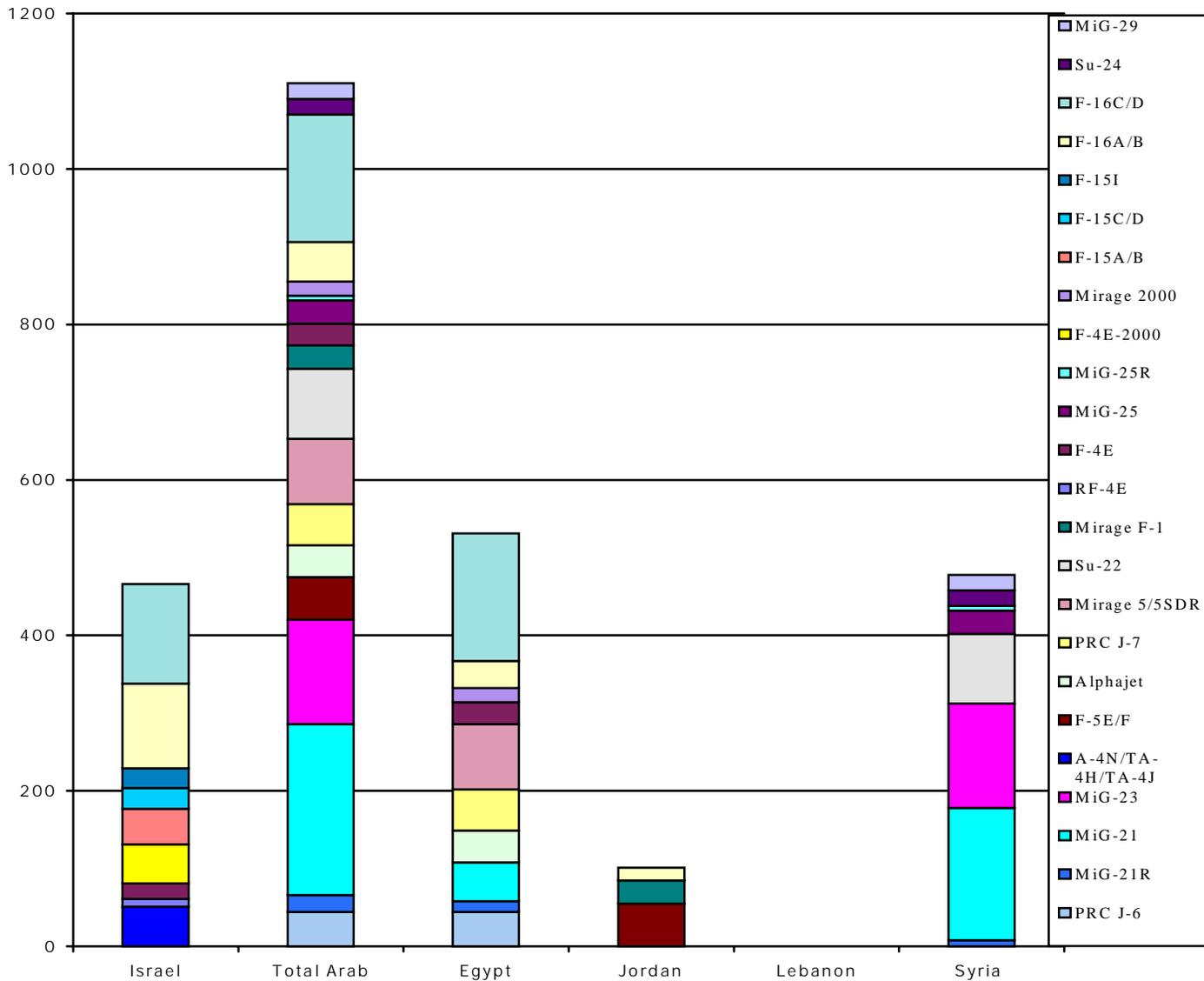
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Figure 3.19

Total Operational Arab-Israeli Combat Fighter, Attack, Bomber, FGA and Reconnaissance Aircraft by Type in 2002

(Does not include stored, unarmed electronic warfare and AC&W, and transport aircraft)



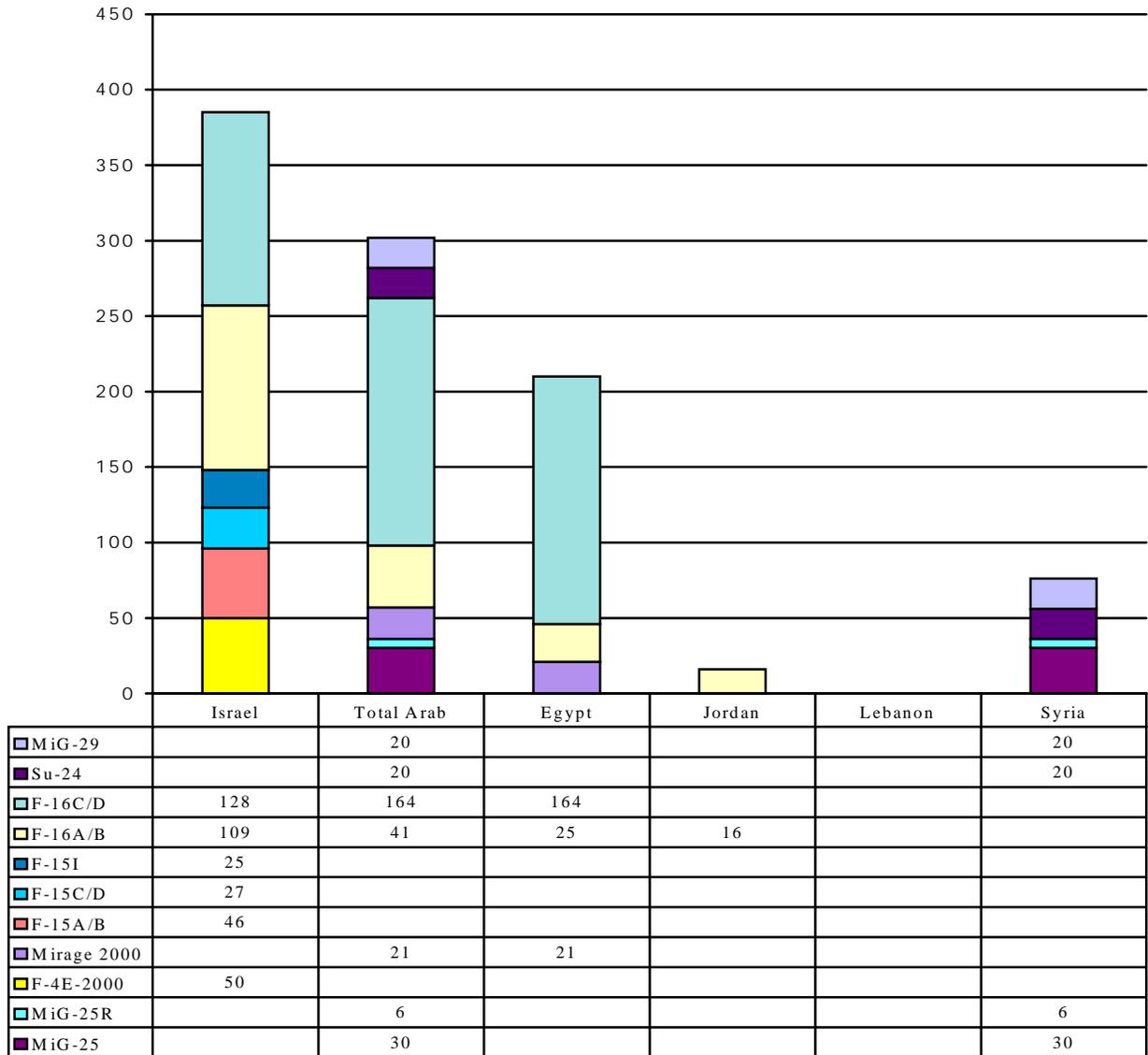
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Figure 3.20

High Quality Operational Arab-Israeli Combat Aircraft in 2002

(Does not include stored, unarmed electronic warfare and AC&W, and transport aircraft)



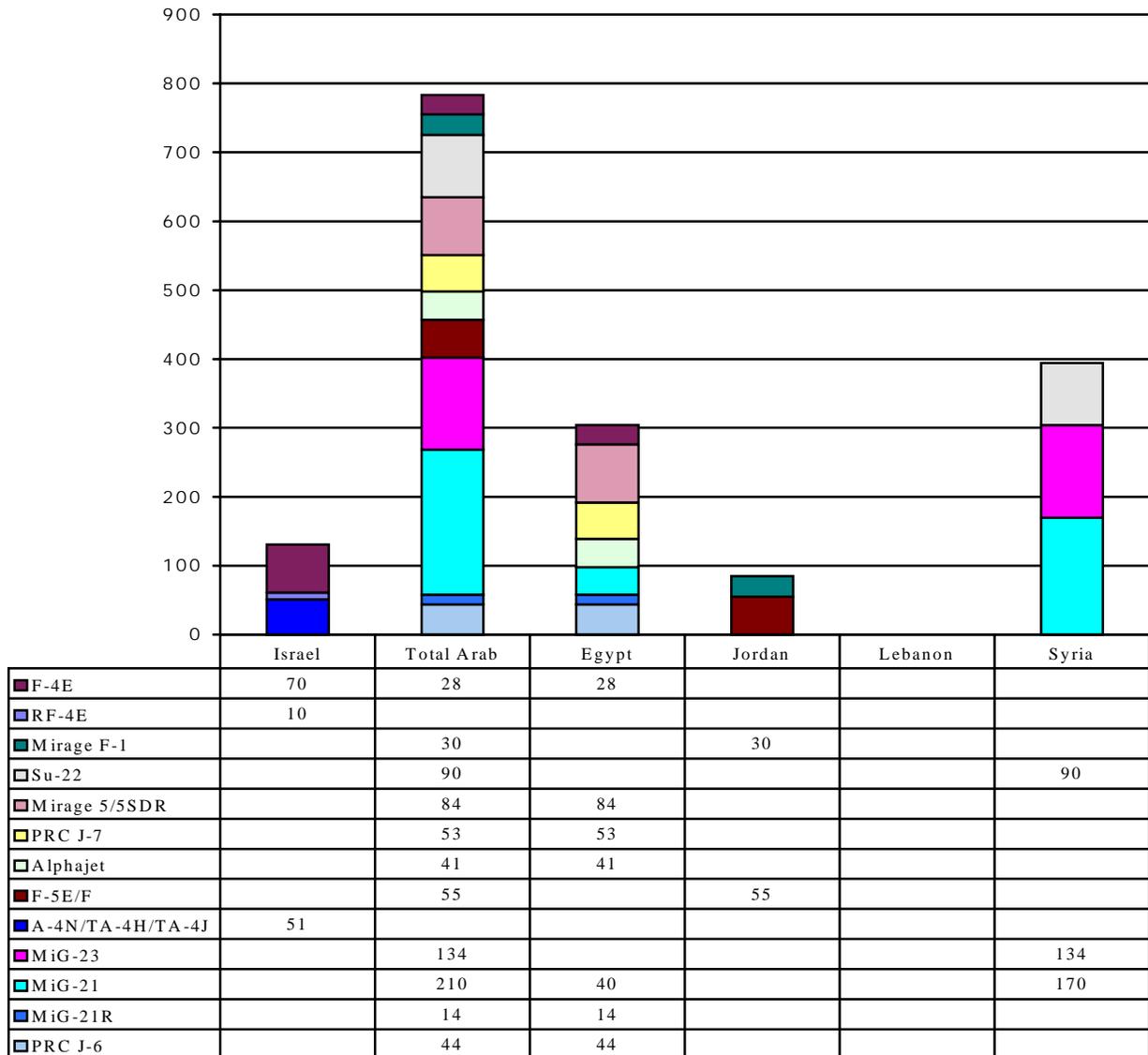
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Figure 3.21

Low/Moderate Quality Arab-Israeli Combat Fighter, Attack, Bomber, FGA and Reconnaissance Aircraft in 2002

(Does not include stored, unarmed electronic warfare and AC&W, and transport aircraft)

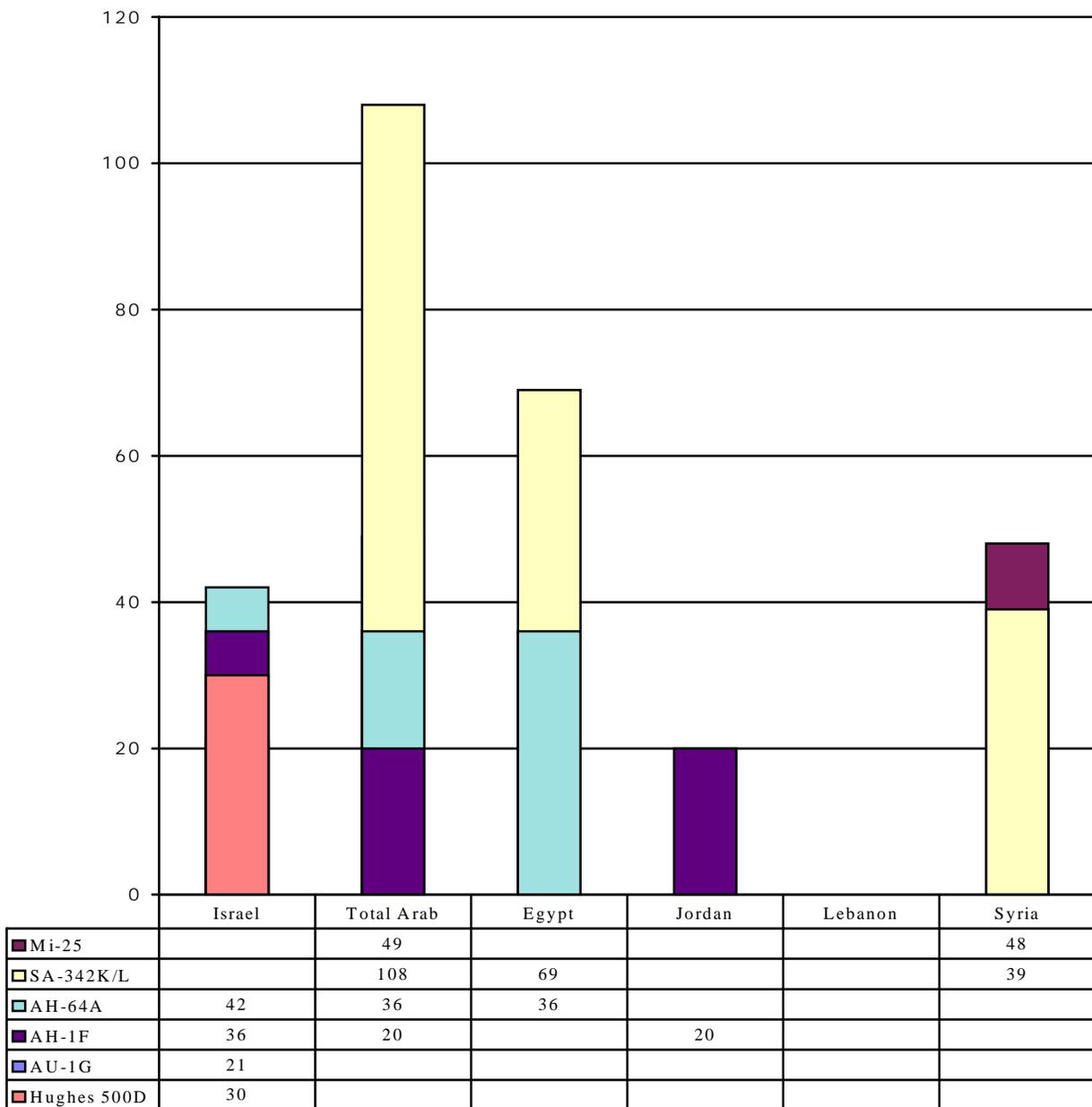


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Figure 3.23

Operational Arab-Israeli Attack and Armed Land Warfare Helicopters in 2002



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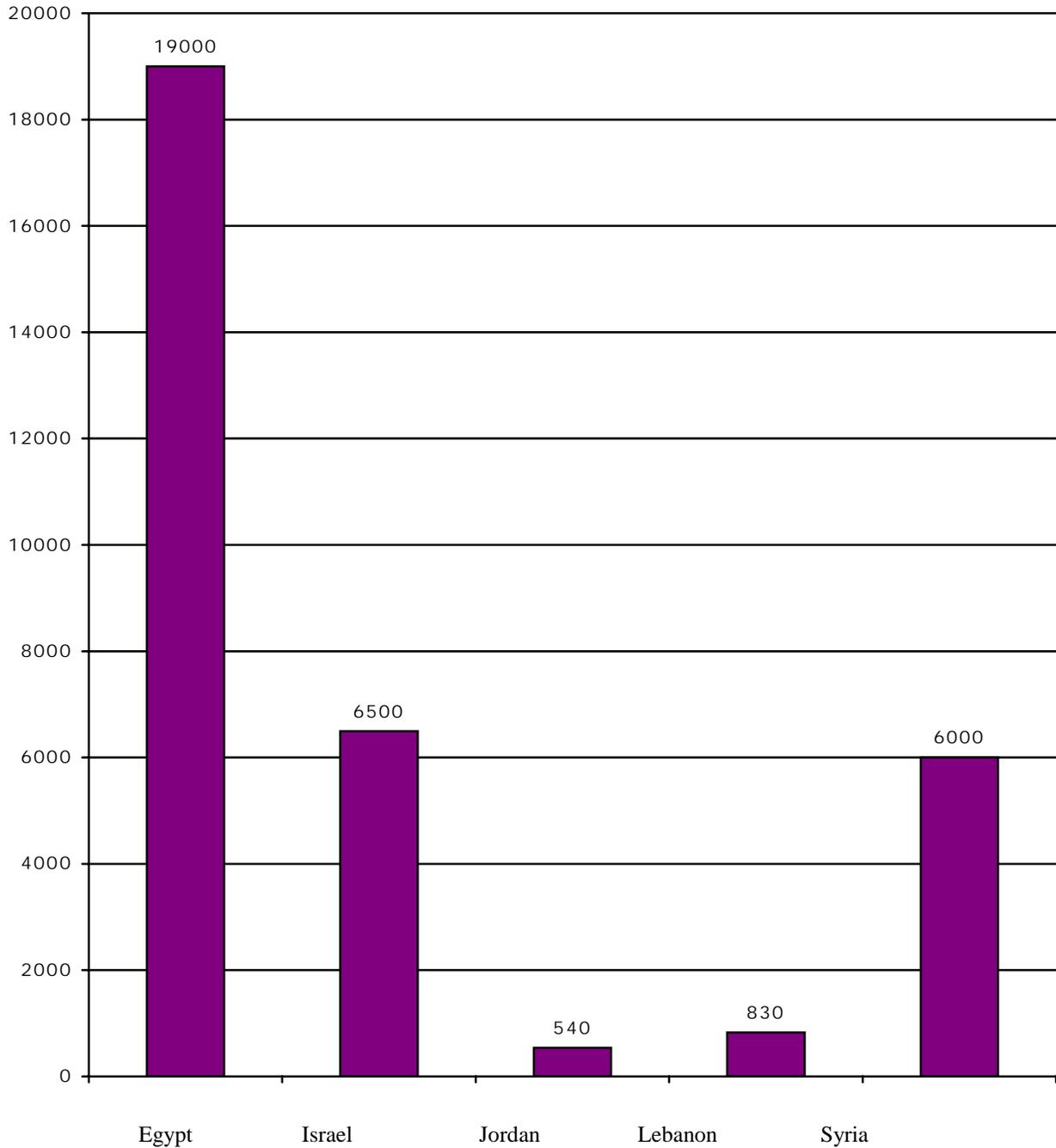
Table 3.3Arab-Israeli Land-Based Air Defense Systems in 2002

<u>Country</u>	<u>Major SAM</u>	<u>Light SAM</u>	<u>AA Guns</u>
<u>Egypt</u>	664 launchers 40/282 SA-2 53/212 SA-3 14/56 SA-6 12/78 I Hawk (4 Div./100 Btn.)	2,100 SA-7 Ayn as Saqr 20 SA-9 <u>26 M-54 Chaparral SP</u> 14/36 Crotale 18 Amoun Skyguard/ RIM-7F 36 quad SAM Ayn as Saqr  57mm, 85mm, 100mm	200 ZPU-2/4 14.5 mm 280 ZU-23-2 23mm 118 ZSU-23-4 SP 23mm 36 Sinai SP 23mm 200 M-1939 37mm 200 S-60 57mm <u>40 ZSU-57-2 SP 57mm</u> 14/- Chaparral 2000 20mm, 23mm, 37mm,  36 twin radar guided 35mm guns Sinai radar-guided 23mm guns
<u>Israel</u>	3/18 Patriot Bty. 17/102 I Hawk Bty. 1 Arrow ATBM Bty	250 Stinger 1,000 Redeye <u>8/48 Chaparral</u> 8 Stinger Bty. (IAF)	850 20 mm: including 20mm, Vulcan, TCM-20, M-167 35 M-163 Vulcan/ Chaparral 150 ZU-23 23mm 60 ZSU-23-4 SP M-39 37mm 150 <u>L-70 40mm</u> 8 Chaparral Bty. (IAF)
<u>Jordan</u>	2/14/80 I Hawk	SA-7B2 52 SA-8 92 SA-13 300 SA-14 240 SA-16 260 Redeye	416 guns 100 M-163 SP 20mm 52 ZSU-23-4 SP 264 M-42 SP 40mm
<u>Lebanon</u>	None	SA-7 SA-14	20mm ZU-23 23mm 10 M-42A1 40mm
<u>Syria</u>	25 Ad Brigades 130 SAM Bty. 11/60/600 SA-2/3 11/27/200 SA-6 1/2/48 SA-5	35 SA-13 20 SA-9 <u>4,000 SA-7</u> 60 SA-8	2,060 guns 650 ZU-23-2 400 ZSU-23-4 SP 300 M-1938 37mm 675 S-60 57mm 10 ZSU-5-2 SP <u>25 KS-19 100mm</u> 4,000 guns (?)

Adapted by Anthony H. Cordesman from the IISS, Military Balance. Light SAMs and AA guns Weapons below line for Egypt, yria, and Israel are weapons operated by air force.

Figure 3.24

Arab-Israeli Naval Manpower in 2002

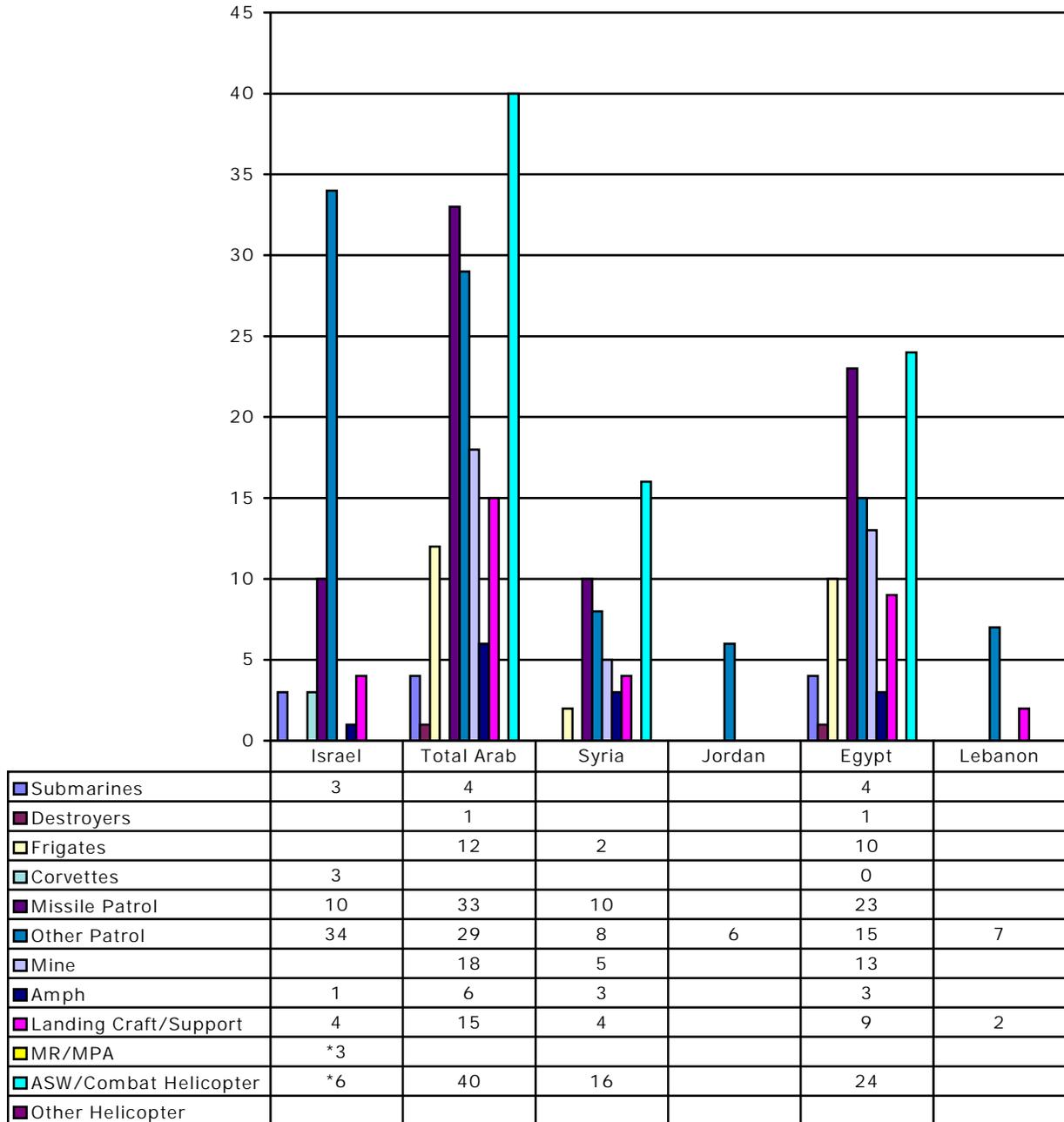


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Figure 3.25

Arab-Israeli Total Naval Combat Ships by Category in 2002

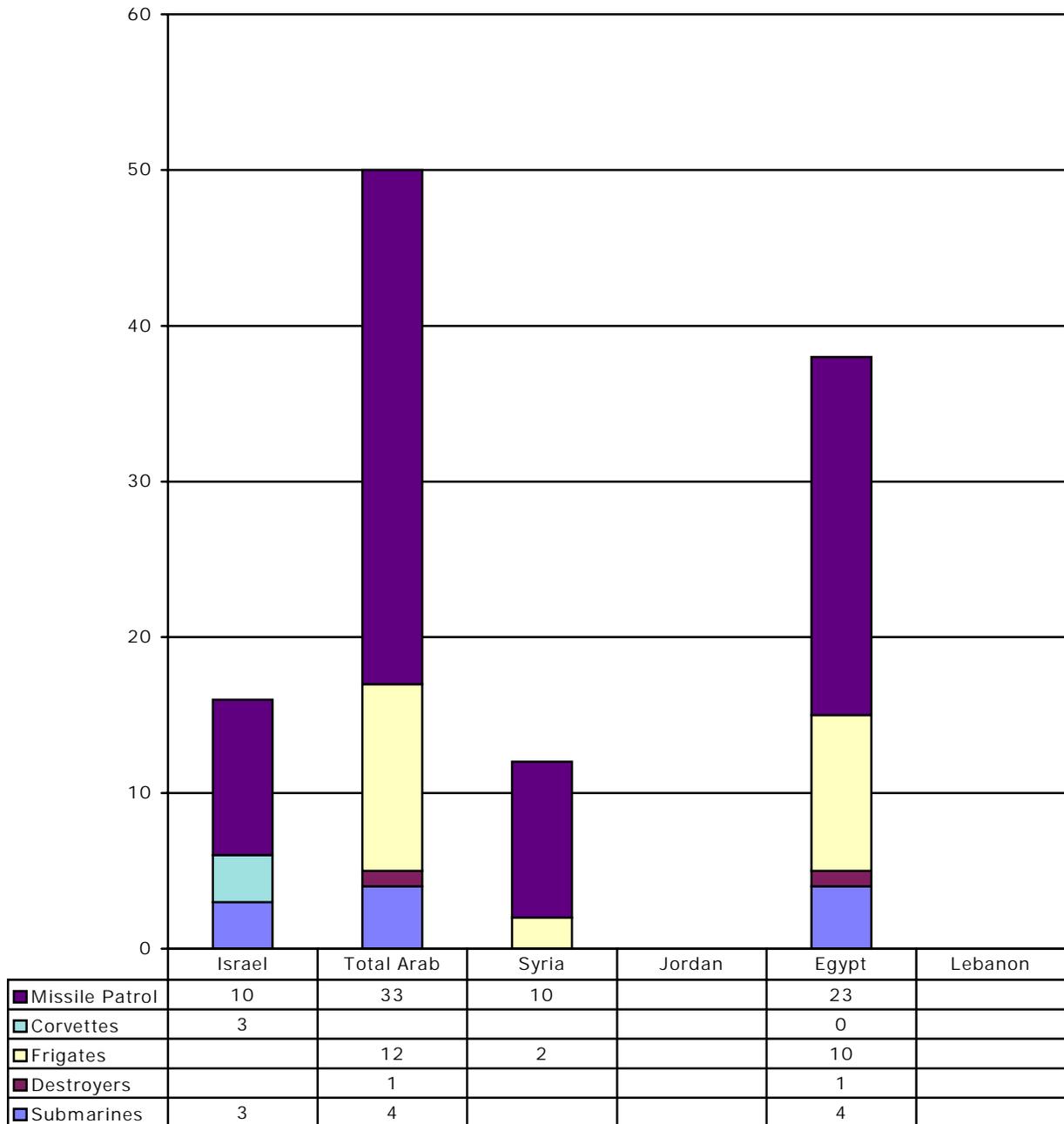


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Figure 3.26

Arab-Israeli Major Combat Ships by Category in 2002



Adapted by Anthony H. Cordesman from the IISS, Military Balance and Jane's Fighting Ships, various editions.

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Table 4.1The Warfighting Capabilities of the Individual “Ring” States  
Judged By Western Standards: Part One

<u>Capability &amp; Quality</u>	<u>US</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>
<u>Active Manpower</u>						
• Officer quality	VG-E	G-E	P-VG	M-E	P-E	N
• NCO Quality	VG-E	G	P-M	M-E	P-E	N
• Enlisted quality	G-VG	G-VG	VP-M	M-G	P-M	N
<u>Reserve Manpower</u>						
• Officer quality	G	G-VG	P	M	P	N
• NCO Quality	G	G	P	P	P	N
• Enlisted quality	G	G	VP	P	VP	N
<u>Combined operations</u>	VG	VG	VP	P	P	N
<u>Land Forces</u>						
• Combined arms	G-VG	G-VG	P-M	M	P-M	N
• Advanced Maneuver	VG-E	G-VG	P-M	M	P-M	N
• Armored Warfare	VG	VG	P-M	M	P-M	N
• Infantry Warfare	G	G	P-VG	G	P-G	N-M
• Advanced Artillery	E	G	P	P	P-G	N
• Heliborne	VG	VG	P-M	P	P-M	N
• Advanced Night	VG	VG	P	P	P	N
• Unconventional	VG	E	M-E	M	M-E	N
• C4I/BM	E	VG	P	P	P-M	N
• Sustainability	VG	VG	P	M	P-M	N
• Standardization	E	VG	M	P	VP-M	N
• Interoperability	E	VG	P	M	P-M	N
<u>Naval Forces</u>						
• Combined Operations	VG-E	M	VP	N	VP	N
• Anti-Ship Missile	G-E	G	P-M	N	P-M	N
• ASW	G-E	P	VP	N	VP	N
• Offensive Mine	P-M	P	M	N	P	N
• Defensive Mine	P	P	P	N	P	N
• Amphibious	VG	M	P	N	P	N
• C4I/BM	E	M	P	N	P	N
• Sustainability	VG	P-M	P	N	P	N
• Standardization	E	G	G	N	P	G
• Interoperability	VG	P	P	N	P	G

E = Excellent, VG = Very Good, G = Good, M = Moderate, P = Poor, VP = Very Poor, N = Negligible

Table 4.1

The Warfighting Capabilities of the Individual “Ring” States  
Judged By Western Standards: Part Two

<u>Capability &amp; Quality</u>	<u>US</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>
<u>Air Forces</u>						
• Combined Operations	E	VG	P	P	P-M	N
• Day air defense	E	E	P-G	P-G	P-VG	N
• AWX/BVR air defense	E	E	VP	N	VP-M	N
• Day attack	E	E	P	P	P-M	N
• Close support	E	VG	P	M	P-M	N
• Advanced anti-armor	VG	VG	VP	VP	VP-P	N
• Night/AWX attack	E	VG	VP	P	P-M	N
• Reconnaissance	E	E	P	P	P-M	N
• Electronic warfare	E	G	P	N	P	N
• Attack helicopter	G-E	G	P	P	P	VP
• C4I/BM	VG-E	E	VP	P-M	P-M	N
• Sustainability	VG	E	VP	P	P-M	N
• Standardization	E	E	M	P	VP-M	N
• Interoperability	VG	VG	P	P	VP-M	N
<u>Strategic Mobility</u>						
• Air	VG	M	VP	VP	P-M	N
• Sea	G	P	N	N	N	N
• Prepositioning	M	-	-	-	-	-
<u>Counterproliferation</u>						
• Missile Defense	P-M	P-M	N	N	N	N
• Bio. Offensive	N	N	P	N	P	N
• Bio. Defensive	VP-N	P	P	N	P	N
• Chem. Offensive	VP	P	M	N	P	N
• Chem. Defense	M-G	P-M	P-M	N	P	N
• Nuclear Offensive	E	E	N	N	N	N
• Nuclear Defensive	M-VP	N	N	N	N	N
• Conventional Retaliation	VG	E	P	VP	P	N

E = Excellent, VG = Very Good, G = Good, M = Moderate, P = Poor, VP = Very Poor, N = Negligible

Note: *Interoperability* refers to the Israeli ability to interoperate broadly with other Gulf and Western forces, and Arab country ability to operate flexibly with other Arab forces. *Standardization* refers to whether equipment pool in a given service in given country is standardized enough to permit effective cross-service and resupply. *C4I/BM* refers to overall command, control, communications, intelligence, and battle management capabilities.

Table 5.1Losses in the Arab-Israeli Wars: 1948-1982 - Part OneA. 1948-1973 Wars

	<u>1948</u>		<u>1956</u>		<u>1967</u>	
	<u>Arab</u>	<u>Israel</u>	<u>Arab<sup>a</sup></u>	<u>Israel</u>	<u>Arab</u>	<u>Israel</u>
Killed	4,800	4,500	1,000	189-210	4,296	750-983
Wounded	25,000	15,000	4,000	899	6,121	4,517
Total	40,000	21,000	5,000	1,088-1,109	10,417	5,267-,5,500

Equipment Losses

Main Battle Tanks <sup>c</sup>	--	--	30	40	965-1,000	200-394
Aircraft	--	--	215-390	15-20	444-500	40
Combat Vessels	--	--	2	0	?	0

B. Land, Air, and Naval Losses: 1973 War

	<u>Israel</u>	<u>Total Arab</u>	<u>Egypt</u>	<u>Syria</u>	<u>Jordan</u>	<u>Iraq</u>	<u>Other Arab</u>
<u>Casualties</u>							
Killed	2,838	8,528	5,000	3,100-3,500	28	218-260	100
Wounded	8,800	19,549	12,000	6,000	49	600	300
Prisoners/Missing	508	8,551	8,031	370-500 500	--	20	?
<u>Equipment Losses</u>							
Main Battle Tanks <sup>d</sup>	400-840	2,554	1,100	1,200	54	100-200	?
Other Armor	400	850+	450	400	--	?	?
Artillery Weapons	?	550+	300	250	--	?	?
SAM Batteries	--	47	44	3	--	--	?
Aircraft	102-103	392	223	118	--	21	30
Helicopters	6	55	42	13	--	?	?
Naval Vessels	1	15	10	5	--	--	--

Table 5.1Losses in the Arab-Israeli Wars: 1948-1982 - Part OneC. Losses in the 1982 War

	<u>Israel</u>	<u>Total Arab</u>	<u>Syria</u>	<u>PLO</u>	
Killed	368	3,000		1,000	2,000
Wounded	2,383	6,000		3,000	3,000
Total	2,751	11,000		4,000	7,000
Prisoners of War	7	-		250	-
Tanks, OAFVs, and Trucks	-	-		-	2,600 <sup>e</sup>
Tanks	150	-		350-400	-
OAFVs	175	-		350-400	-
Artillery Weapons	-	-		-	1,700 <sup>e</sup>
Aircraft	2	92		92	0
Helicopters	3	-		?	0
Munitions (Tons)	-	-		-	6,000 <sup>e</sup>

a. Includes only Egyptian casualties in fighting with Israel. Equipment losses include total Egyptian losses, including those to France and the United Kingdom.

b. Prisoner of war and missing data are too unreliable to be included.

c. Lower end of range often reflects losses that could not be returned to combat by the end of war. Higher end shows "kills" that put tank temporarily out of combat.

d. Lower end of range often reflects losses that could not be returned to combat by the end of war. Higher end shows "kills" that put tank temporarily out of combat.

e. Totals are equipment and munitions captured by Israel. No total is available for combat losses.

Sources: Estimates for 1948-1973 losses differ widely from source to source, which is the reason for not comparing all data in the same section of the table. The figures shown are adapted from Trevor Dupuy, Elusive Victory, New York, Harper and Row, 1978; Chaim Herzog, The Arab-Israel Wars, New York, Random House, 1982; and from various editions of the Born in Battle Series, Tel Aviv, Eshel Drammit.

The estimates for 1982 are drawn from Anthony H. Cordesman, The Lessons of Modern War, Volume I, Boulder, Westview, 1990, pp. 152-153, data provided by the IDF Spokesman and Embassy of Lebanon, and Yezid Sayigh, "Israel's Military Performance in Lebanon, June, 1982," Journal of Palestine Studies, Vol. 13, No. 1 (Fall 1983).

Table 13.1The Broader Arab-Israeli Balance in 2002: Part One

<u>Category/Weapon</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>	
<u>Defense Budget</u> (In 2000, \$Current Billions)	\$9.0	\$ .838		\$0.499	\$2.1	\$0.594
<u>Arms Imports: 1996-1999 (\$M)</u>						
New Orders	4,500	500		800	6,800	100
Deliveries	4,500	300		300	3,800	100
<u>Mobilization Base</u>						
Men Ages 13-17	284,000	1,076,000		280,000	3,707,000	216,000
Men Ages 18-22	272,000	883,000		247,000	3,312,000	194,000
<u>Manpower</u>						
Total Active	163,500	321,000		100,240	443,000	71,830
(Conscript)	107,500	-		-	322,000+	22,600
Total Reserve	425,000	354,000		35,000	254,000	-
Total	588,500	675,000		135,240	697,000	71,830
Paramilitary	8,050	108,000		10,000	325,000	13,000
<u>Land Forces</u>						
Active Manpower	120,000	215,000		84,700	320,000	70,000
(Conscripts)	85,000	-		-	250,000+	22,600
Reserve Manpower	400,000	280,000		30,000	150,000	-
Total Active & Reserve Manpower	520,000	495,000		114,700	470,000	70,000
Main Battle Tanks	3,930	4,700 (1200)		1,058 (78)	3,860	327
AIFVs /Armored Cars/Lt. Tanks	408	3,185		45	987(220)	125
APCs/Recce/Scouts	5,900	2,450		1,130	3,212(1,075)	1,338
WWII Half-Tracks	500(3,500)	0		0	0	0
ATGM Launchers	1,325	6,050		640	2,612	20
SP Artillery	855	450		418	478	0
Towed Artillery	520	1,630		113	971	151
MRLs	198	480		0	156	23
Mortars	6,470	658		800	2,400	377
SSM Launchers	20	68		0	18	0
AA Guns	850	2,060		416	874	10
Lt. SAM Launchers	1,298	4,055		944	671	-

Table 13.1The Broader Arab-Israeli Balance in 2002: Part Two

<u>Category/Weapon</u>	<u>Israel</u>	<u>Syria</u>	<u>Jordan</u>	<u>Egypt</u>	<u>Lebanon</u>
<u>Air &amp; Air Defense Forces</u>					
Active Air Force Manpower	37,000	40,000	15,000	29,000	1,000
Active Air Defense Command	0	60,000	0	75,000	0
Air Force Reserve Manpower	20,000	70,000	-	20,000	-
Air Defense Command Reserve Manpower	0	-	0	70,000	0
<u>Aircraft</u>					
Total Fighter/FGA/Recce	446(250)	589	101	580	(16)
Fighter	0	319	31	324	0
FGA/Fighter	405	0	0	0	0
FGA	25	154	70	133	0
Recce	10	14	0	20	0
Airborne Early Warning (AEW)	6	0	0	5	0
Electronic Warfare (EW)	37	10	0	10	0
Fixed Wing	37	0	0	6	
Helicopter	0	10	0	4	
Maritime Reconnaissance (MR)	3	0	0	2	0
Combat Capable Trainer	26	111	2	64	3
Tanker	3	0	0	0	0
Transport	39	25	12	32	2
<u>Helicopters</u>					
Attack/Armed	133	87	20	129	0
SAR/ASW	6	-	-	-	-
Transport & Other	160	110	49	158	30
Total	299	110	69	287	30
<u>SAM Forces</u>					
Batteries	29	150	14	38+	0
Heavy Launchers	79	848	80	610	0
Medium Launchers	0	60	0	36-54	0
AA Guns	0	4,000	-	90	-
<u>Naval Forces</u>					
Active Manpower	6,500	6,000	540	19,000	1,200
Reserve Manpower	5,000	4,000	-	14,000	0
Total Manpower	11,500	10,000	540	33,000	1,200
Naval Commandos/Marines	300	0	0	0	0
Submarines	3	0	0	4	0
Destroyers/Frigates/Corvettes	3	2	0	11	0
Missile	3	2	0	10	0
Other	0	4	0	1	0
Missile Patrol	10	10	0	25	0
Coastal/Inshore Patrol	34	8	3	15	7
Mine	0	5	0	13	0
Amphibious Ships	1	3	0	3	0
Landing Craft/Light Support	4	5	(3)	9	2
Fixed-wing Combat Aircraft	0	0	0	0	0
MR/MPA	0	0	0	0	0
ASW/Combat Helicopter	0	16	20	24	0
Other Helicopters	-	-	-	-	-

Note: Figures in parenthesis show additional equipment known to be in long-term storage. Some Syrian tanks shown in parenthesis are used as fire points in fixed positions.

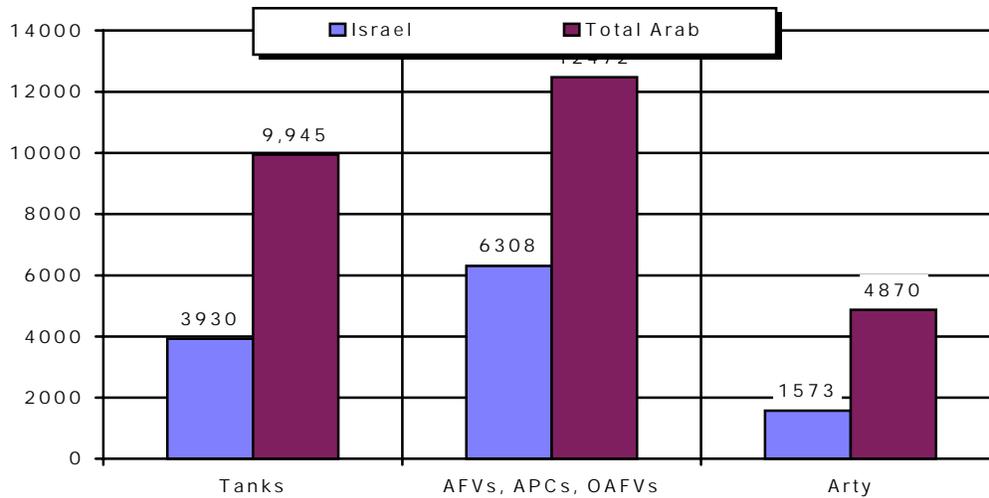
Source: Adapted by Anthony H. Cordesman from data provided by US experts, and the IISS, Military Balance

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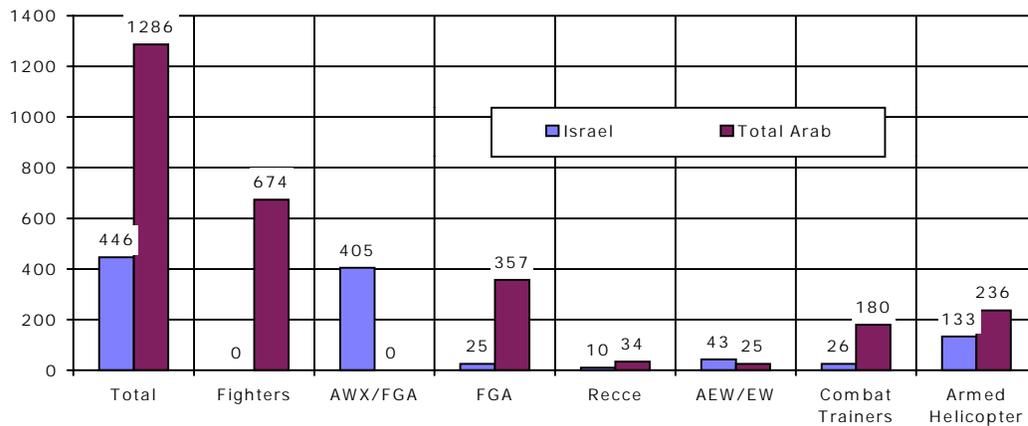
Figure 13.1

Israel Versus Egypt, Syria, Jordan, and Lebanon in 2002

Operational Land Weapons



Operational Combat Aircraft



Note: Total Artillery includes towed and self-propelled tube artillery and multiple rocket launchers. Total air forces include only operational fixed wing fighter, fighter-attack, and reconnaissance aircraft in combat units, less aircraft in combat training units. Source: Adapted by Anthony H. Cordesman from data provided by US experts, and the IISS, Military Balance.

Table 14.1Algerian, Iranian, Iraqi, and Libyan Forces in 2002: Part One

<u>Category/Weapon</u>	<u>Algeria</u>	<u>Libya</u>	<u>Iran</u>	<u>Iraq</u>
<u>Manpower</u>				
Total Active	124,000	76,000	513,000	424,000
(Conscript)	75,000	40,000	220,000	-
Total Regular	-	76,000	378,000	424,000
Revolutionary Guard and Other	0	?	135,000	0
Total Reserve	150,000	40,000	350,000	650,000
Total Active and Reserve	274,000	116,000	863,000	1,074,000
Paramilitary	181,200	?	40,000	42,000-44,000
<u>Land Forces</u>				
Active Manpower	107,000	45,000	325,000	375,000
(Revolutionary Guards)	-	-	(220,000)	-
(Conscripts)	75,000	25,000		
Reserve Manpower	150,000	-	350,000	450,000
Total Manpower	257,000	45,000	675,000	825,000
Main Battle Tanks	1,089	985(1,040)	1,565	2,200
AIFVs/Armored Cars/Lt. Tanks	1,089	1,630*	865	2,000
APCs/Recce/Scouts/Half-Tracks	945+	990*	625	2,800
ATGM Launchers	-	3,000*	420+	480+
SP Artillery	185	450*	310	150
Towed Artillery	418	720*	2,085	
MRLs	126	700*	664+	500
Mortars	330+	-	5,000	2,000+
SSM Launchers	-	120	47	6-24
AA Guns	905	600+*	1,700	5,500
Lt. SAM Launchers	1,000+	2,500+*	700	1,100

\* Extensive, but unknown amounts inoperable or in storage.

Table 14.1Algerian, Iranian, Iraqi, and Libyan Forces in 2002: Part Two

<u>Category/Weapon</u>	<u>Algeria</u>	<u>Libya</u>	<u>Iran</u>	<u>Iraq</u>
<u>Air &amp; Air Defense Forces</u>				
Active Manpower	10,000	23,000	45,000	52,000
(Air Defense Only)	NA	?	(15,000)	(17,000)
Reserve Manpower	-	-	--	-
(Air Defense Only)	NA	?	-	-
<u>Aircraft</u>				
Total Fighter/FGA/Recce	176	372	283	315
Bomber	0	6	0	6?
Fighter	114	183	174	180
FGA/Fighter	48	172	690	130
Recce	4	11	15	8
Airborne Early Warning (AEW/EW)	0	0	(1)	0
Maritime Reconnaissance (MR)	15	0	5	0
Combat Capable Trainer	8	21	35	155
Tanker	0	0	4	2
Transport	27	81	60	34
<u>Helicopters</u>				
Attack/Armed/ASW	63	41	(100)	(120)
Other	50	98	512?	380
Total	113	150	612?	500
<u>SAM Forces</u>				
Batteries	9	39		
Heavy Launchers	43	236	155	340
Medium Launchers	-	?	52	200
AA guns	-	?	-	6,000
<u>Naval Forces</u>				
Active Manpower	7,000	8,000	40,600	2,000
Regular Navy		8,000	20,600	2,000
Naval Guards		-	20,000	0
Marines		-	2,600	-
Reserve Manpower	-	-		-
Total Manpower	-	-		2,000
Submarines	2	2(2)	6	0
Destroyers/Frigates/Corvettes	8	5	5	0
Missile	5	5	2	0
Other	3	0	3	0
Missile Patrol	9(2)	13(8)	20	1
Coastal/Inshore Patrol	3	-	41	5
Mine	0	6	7	3
Amphibious Ships	3	4(1)	9	0
Landing Craft/Light Support	3	12	9	2
MPA/ASW/Combat Helicopter	0	-/32	-/29	(6)

Note: Figures in parenthesis are additional equipment in storage. Total equipment holdings for the Iranian land forces include 470 tanks, 620 other armored vehicles, 360 artillery weapons, 40 rocket launchers, and 140 anti-aircraft weapons with the land units of the Revolutionary Guards. Iranian & Iraqi attack helicopters are in the army. Only about 60% of the US supplied fixed wing combat aircraft in Iran are operational and 80% of the Chinese supplied aircraft.

Source: Adapted by Anthony H. Cordesman from data provided by US experts, and the IISS, Military Balance

Table 14.2The "Perceptual Balance": Military Demographics of the Greater Middle East in 2002

<u>Country</u>	<u>Total Population</u>	<u>Males Reaching</u> <u>Military Age</u> <u>Each Year</u>	<u>Males Between the Ages of</u>		<u>Males Between 15 and 49</u>		
			<u>13 and 17</u>	<u>18 and 22</u>	<u>23 and 32</u>	<u>Total</u>	<u>Medically Fit</u>
Egypt	70,615,000	713,000	3,707,000	3,313,000	5,150,000	18,562,000	12,020,000
Gaza	1,132,000*	-	-	-	-	-	-
Israel	6,336,000	49,000	284,000	272,000	525,000	1,522,000	1,246,000
Jordan	6,869,000	57,000	280,000	247,000	454,000	1,458,000	1,034,000
Lebanon	3,137,000	-	216,000	194,000	397,000	980,000	605,000
Palestinian	3,000,000*	-	163,000	140,000	233,000	-	-
Syria	16,493,000	201,000	1,076,000	883,000	1,274,000	4,384,000	2,448,000
West Bank	2,020,000*	-	-	-	-	-	-
Iran	68,281,000	823,000	4,735,000	3,960,000	5,959,000	18,319,000	10,873,000
Iraq	22,300,000	274,000	1,538,000	1,324,000	1,960,000	5,902,000	3,302,000
Bahrain	626,000	6,000	35,000	26,000	40,000	222,000	122,000
Kuwait	2,065,000	18,000	124,000	107,000	148,000	780,000	466,000
Oman	2,674,000	26,000	136,000	110,000	159,000	772,000	450,000
Qatar	610,000	7,000	26,000	22,000	38,000	312,000	164,000
Saudi Arabia	22,205,000	233,000	1,391,000	1,177,000	1,725,000	5,895,000	3,291,000
UAE	2,571,000	24,000	87,000	87,000	143,000	779,000	420,000
Yemen	18,885,000	239,000	1,008,000	803,000	1,328,000	4,103,000	2,303,000
Algeria	32,136,000	389,000	1,986,000	1,834,000	2,962,000	8,795,000	5,384,000
Libya	5,644,000	62,000	387,000	320,000	492,000	1,459,000	866,000
Morocco	28,476,000	348,000	1,780,000	1,612,000	2,726,000	8,182,000	5,160,000
Tunisia	9,697,000	105,000	529,000	505,000	869,000	2,739,000	1,561,000
Chad	7,891,000	82,000	408,000	332,000	518,000	1,814,000	950,000
Mauritania	2,753,000	-	149,000	121,000	194,000	624,000	303,000
Western Sahara	245,000	-	-	-	-	-	-
Afghanistan	25,839,000	252,869	1,499,000	1,194,000	2,053,000	6,645,000	3,562,000
Djibouti	451,000	-	42,000	35,000	57,000	108,000	63,000
Eritrea	4,136,000	-	252,000	210,000	319,000	-	-
Ethiopia	64,117,000	704,000	3,976,000	3,172,000	4,780,000	14,538,000	7,582,000
Somalia	7,253,000	-	626,000	511,000	726,000	1,825,000	1,011,000
Sudan	35,080,000	398,000	1,990,000	1,693,000	2,542,000	8,437,000	5,195,000
Turkey	65,667,000	675,000	3,924,000	3,251,000	6,242,000	18,882,000	11,432,000

Source: Adapted by Anthony H. Cordesman, CIA World Factbook, 2001, IISS, Military Balance, 2001-2002.

Note: Totals include non-nationals, Total population, males reaching military age, and Males between 15 and 49 are generally CIA data, the rest are IISS data. \* Totals for Palestinians are IISS, totals for Gaza and West Bank are CIA.

Table 14.3

The "Perceptual Balance": Military Forces of the Greater Middle East

<u>Country</u>	<u>Total Active Manning</u>	<u>Total Active Army Manning</u>	<u>Tanks</u>	<u>OAFVs</u>	<u>Artillery</u>	<u>Combat Aircraft</u>	<u>Armed Helicopters</u>	
Egypt	443,000	320,000	3,860	4,199	1,378	580	129	
Israel	163,500	120,000	3,930	6,308	1,573	446	133	
Jordan	100,240	84,700	1,058	1,175	531	101	20	
Lebanon	71,830	70,000	327	1,463	174	(3)	0	
Palestinian	(35,000)	(35,000)	-	45	-	-	-	
Syria	321,000	215,000	4,700	3,850	2,080	589	87	
Iran	513,000	325,000	1,565	1,340	4,624	283	100	
Iraq	424,000	375,000	2,200	3,500	2,050	316	120	
Bahrain	11,000	8,500	106	269	93	34	40	
Kuwait	15,500	11,000	385	466	68	82	20	
Oman	43,400	25,000	117	267	120	40	0	
Qatar	12,330	8,500	35	266	44	18	19	
Saudi Arabia	126,500	75,000	1,055	3,170	408	348	33	
UAE	65,000	59,000	411	1,184	333	101	49	
Yemen	54,000	49,000	910	880	650	71	8	
Algeria	124,000	107,000	1,089	2,034	633	176	63	
Libya	76,000	45,000	985	2,383	1,476	372	41	
Morocco	198,500	175,000	744	1,324	438	95	24	
Tunisia	35,000	27,000	84	391	117	51	7	
Chad	30,350	25,000	60	83+	5	2	2	
Mauritania	15,650	15,000	35	105	75	7	0	
Afghanistan	-	-	-	-	-	-	-	-
Djibouti	9,600	8,000	0	31	6	0	0	
Eritrea	200,000-250,000	200,000-250,000	89	80	155	179	0	
Ethiopia	252,500	250,000	300+	200	310	51	26	
Somalia	35,900?	35,900?	-	-	-	-	-	
Sudan	117,000	112,500	200	661	1,060	35	10	
Turkey	515,100	402,000	4,205	2,966	2,953	505	37	

Note: Totals count all "active" equipment, much of which is not operational. They do not include stored equipment, but are only approximate estimates of combat-ready equipment holdings. Light tanks, APCs, AIFVs, armored recce vehicles, and misc. AFVs are counted as OAFVs (Other Armored Fighting Vehicles). Artillery counts towed and self-propelled tube weapons of 100-mm+ and multiple rocket launchers, but not mortars. Only fixed wing combat aircraft in combat, COIN, or OCU units are counted, not other trainers or aircraft.

Source: Adapted by Anthony H. Cordesman, CIA [World Factbook](#), various editions and IISS, [Military Balance](#), various editions

