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Central Intelligence Agency



Directorate of Intelligence

February 1987

<u>Summary</u>

Entering its seventh year of war with Iran, Iraq has the largest purchaser of foreign-produced military hardware in the world. It is the primary recipient of Soviet arms and the number one client for arms from a variety of Communist and Free World The Iraqi appetite for military hardware is nations. large and broad-based. Since 1983--when Irag started to incorporate a large amount of new weapons into its ground and air forces--Iraq has received 3,500 tanks and armored personnel carriers and over 300 combat according to our analysis. These arms shipments have enabled Iraq to acquire and maintain a significant quantitative advantage in combat equipment over Iran:

• 4 to 1	in med	lium	tanks.
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•	3	to	1	in	ar	t i	l	ler	ν.
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• 5 to 1 in combat aircraft.

But, rather than leading to a quick victory, the Iraqi advantage has merely balanced the Iranian superiority in manpower.

Information available as of 1 January 1987 was used in this report. (U)

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Despite Iraq's ability to concentrate an overwhelming amount of combat equipment against Iranian positions—a 100 to 1 medium tank advantage, for example during the February 1985 Hawizah Marsh counteroffensive—Iraq has been unable to do more than blunt Iranian advances, and even then at a high cost in men and equipment. In our judgment, the Iraqi penchant for grasping defeat from the jaws of victory is the result of Iraq's defensive strategy, and poor leadership, tactics, and training. Iranian initiative and fervor only magnify the Iraqi weaknesses.	25 X 1
Continued arms shipments will in all likelihood allow Iraq to persevere in its defensive strategy and hold the Iranians at bay, unless Iran also begins to receive significant arms deliveries. We believe that regardless of how many or what type of conventional weapon Iraq obtains, its battlefield performance is unlikely to improve until changes are made in strategy, leadership, training, and tactics.	25 X 1
If Iraq is to continue to defend its border against Iran, it will need a steady supply of tanks, APCs, artillery, ammunition, and other military-associated equipment to equip new and existing divisions and to replace war losses. Even though the Iraqis receive a large amount of non-Soviet equipment, the USSR will remain Iraq's number one supplier for weapons and	
ammun i t i on.	25 X 1

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Introduction

The Iran-Iraq war is entering its seventh year. Although intense fighting has been sporadic, Iraq has suffered significant equipment losses to its over 40-division army and has found that a quantitative equipment edge over Iran is essential to maintain military parity. Much of Iraq's military equipment was of Soviet origin at the start of the war, but a six-month arms embargo imposed by the Soviets in 1980 prodded Iraq into acquiring alternative sources of arms from East Europe, China, and the By 1983, Iraq started to incorporate a large amount of non-Soviet weapons into its rapidly expanding ground and air As of 1986 other countries such as China, Bulgaria, Poland, Yugoslavia, Brazil and South Africa had also made Iraq their number one client for arms, although the Soviet Union remains Iraq's number one supplier of arms. 1

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Nearly all military deliveries to Iraq arrive by sea through Ash Shuaybah, Kuwait; Al, Qadimah, Saudi Arabia; and Agaba, Jordan (figure 1). 2 The Iraqis were forced to use these three Arab ports when their own ports at Umm Qasr and Al Basrah were closed early in the war due to the fighting. Although having to use third party ports complicates Iraq's receipt of arms shipments, the process appears to function sufficiently well, and we have detected no bottlenecks which seriously affect Irag's fighting capability.

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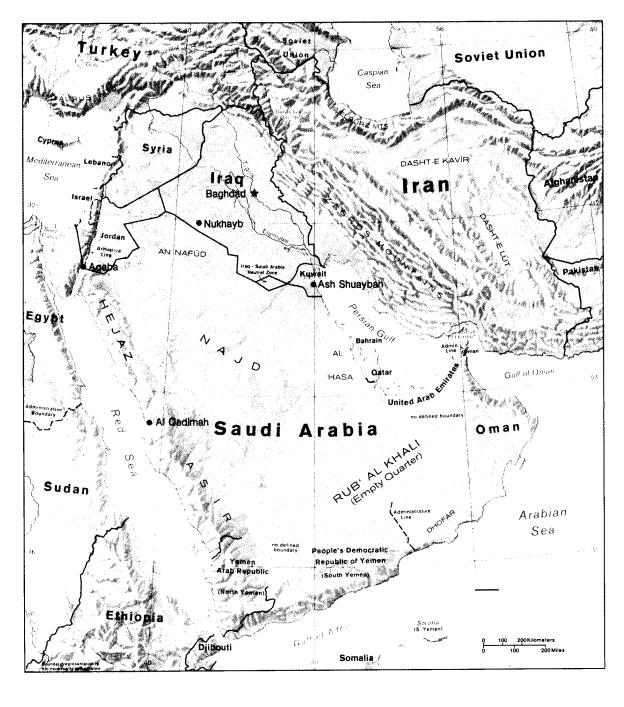
 2 The Soviets have airlifted some arms to Iraq over the course of the war, most notably MIG-25 (Foxbat) aircraft. Chinese B-6D (Badgers) were flown to Iraq. Also, during the recent Al, Faw offensive, Iraqi IL-76 transport aircraft flew to India, France, and the Soviet Union for ammunition.

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Lequipment totals contained in this paper represent estimates acquired solely from analysis These estimates may disagree with other estimates in the Intelligence Community acquired from all sources of information. In any case, all estimates show that Iraq has a large and expanding equipment inventory.

Figure 1 Location of Receiving Ports and Transshipment Points for Soviet and Non-Soviet Military Deliveries to Iraq



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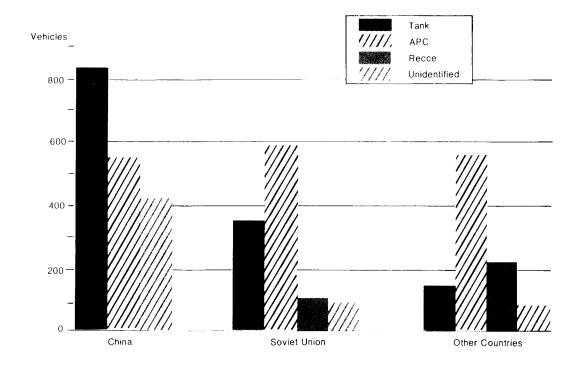
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Port Facilities Used for Arms Deliveries

The receipt and transport of arms shipments from Iraqi ports are well documented For example, Soviet arms destined for Iraq are delivered to the Kuwaiti port of Ash Shuaybah, approximately 50 kilometers (km) from the city of Kuwait. These arms are then transported overland by truck to main storage depots in the Baghdad area. non-Soviet a rms shipments to Iraq--including Chinese. Eastern European, and Western arms--arrive at the Saudi Arabian port of Al Qadimah, although occasionally arms from Europe arrive at the Jordanian port of Aqaba. From Al Qadimah and Aqaba the arms are transported on heavy-lift transporters and trucks to Iraq. Deliveries coming from Al Qadimah stop at the Iraqi town of Nukhayb, approximately 100 km north of the Saudi-Iraqi border (figure 2), where the arms are transferred to Iragi heavy-lift transporters and trucks and carried to Baghdad.

Figure 2
Minimum Count of Armored Vehicles Delivered to Iraq, 1983-87



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Inventory of New Equipment	
Armor The Iraqi Army depends on armored vehicles in its prosecution of the war and has enjoyed a quantitative superiority in armor since the war's beginning.	25X1
Tanks. Before 1983 the Soviet Union was the principal supplier of medium tanks to Iraq. The 6-month Soviet embargo allowed the People's Republic of China (PRC) to become a principal supplier. The PRC provided over 800 Type 59/69 tanks, which is more than 61 percent of the tanks Iraq received from 1983 to 1986 (figure 3). The Chinese-produced tanks are part of a 1981 arms deal for the delivery of 2,000 Type 59/69 tanks to Iraq. The Soviet T-72 is a more modern tank than the Type 59/69, which in reality is a modified Soviet T-54 medium tank. The Type 59/69, however, is cheaper and well-suited for the Iraqi tactic of revetting tanks in defensive positions along the front. Nonetheless, Iraq received at least 170 T-72 tanks from the Soviet Union in 1986, according to reliable sources and satellite photography. Besides the Soviet Union and China, Iraq also has received at least 50 T-54/55 tanks from Egypt, 100 T-54/55 tanks from Poland, and 22 T-72 tanks from Czechoslovakia.	25X1
Armored Vehicles. Iraq receives APCs and other armored vehicles from the USSR and Warsaw Pact countries, the PRC, Brazil, and France. This diversity of sources demonstrates not only the complexity of the Iraqi acquisition program, but also the widespread availability of armored vehicles in the world today.	25X1
On the basis of imagery analysis, we believe most of the APCs and other armored vehicles acquired since 1983 have been used as follows: • Some of the 260 BMPs and 70 of the BTR-60 APCs from the Soviet Union replaced war losses in combat units. • The remaining BMPs from the Soviet Union, along with 100	

- Some of Union re
- The rem Soviet-produced BMD APCs and some of the 250 Czechoslovakianproduced BMPs probably formed new brigades in the Republican Guard Forces.
- At least 400 Chinese Type 63 APCs replaced older Soviet and Czech APCs in two Iraqi divisions.
- At least 135 MT-LBs from the Soviet Union and Bulgaria replaced older Soviet APCs in two divisions.

						
The Republican Guard consist of 17 brigades.	equivalent	to	а	corps	and	25 X 1
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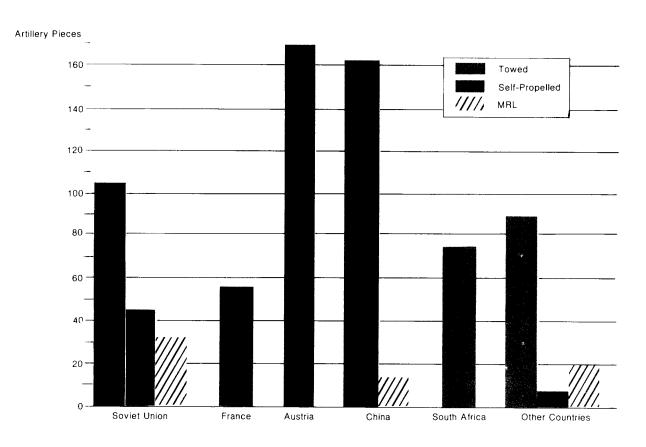
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	ch VAB APCs at 1	likrit Barrack	s north of	Baghdad and	
	porated them in				

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Artillery. Iraq has greatly improved its quantitative and qualitative advantage in artillery over Iran with the delivery of French and Soviet self-propelled (SP) howitzers and long-range artillery like the Austrian 155-mm (GHN-45) gun-howitzer. Since 1983, Iraq has received over 800 artillery piecesmostly towed field artilleryfrom both Soviet and non-Soviet countries (figure 4).	25 X 1
Towed Field Artillery. The bulk of the artillery delivered to Iraq since January 1983 has consisted of towed models supplied by Austria, China, and Third World countries—over 500 weapons. Even though Soviet-produced artillery is still the most prevalent found in the Iraqi ground forces, the Iraqis have acquired only about 100 towed field artillery pieces from the Soviets since 1983.	
 Austria has delivered at least 170 towed 155-mm GHN-45 gunhowitzers to Iraq through Jordan. The GHN-45, with its range of nearly 40 km provides Iraq with an excellent corpslevel weapon for counter-battery fire. China has delivered over 200 field artillery pieces, from 100-mm antitank guns to 152-mm gun-howitzers. The most numerous artillery piece delivered to Iraq is the 152-mm (Type 83) gun-howitzer, of which Iraq has received 160. South Africa has agreed to supply 100 G-5 gun howitzers and Iraq has already received 72 of them. The gun is similar to the GHN-45. (S NF WN) 	
Self-propelled Artillery. Three countries, the Soviet Union, France, and Bulgaria, have provided Iraq with self-propelled (SP) guns since 1983. The Soviets shipped Iraq at least 45 122/152-mm SP howitzers; France delivered 56 155-mm GCT SP howitzers, which the Iraqis attached to the Republican Guard Forces; and Bulgaria has supplied six 122/152-mm SP howitzers.	25X1
Other Artillery. Unlike other Arab countries such as Syria, Egypt, and Libya, Iraq does not have a large number of multiple rocket launchers (MRLs) in its inventory. Consequently, Iraq has acquired only a few MRLs since 1983. Only about 60 truck-mounted MRLs were received from the Soviet Union and China, and 20 Astros II MRLs from Brazil. The Astros II has a range of 30 km and provides Iraq with a long-range saturation weapon. The Iraqis deployed eight Astros II MRLs to the Hawizah Marsh along the Tigris River in 1985. (S NF WN)	25X1 25X1
The Republican Guard Forces are equivalent to a corps and consist of 17 brigades.	25 X 1

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Figure 4
Minimum Count of Artillery Pieces Delivered to Iraq, 1983-87



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Air Defense

Iran's dwindling air force no longer poses a major threat to Iraq, although the Iranian Air Force has had limited success attacking Iraqi ground forces and rear areas by flying at low altitude,

Apparently to counter this threat, Iraq over the last three years has purchased mobile, low-altitude surface-to-air missile (SAM) systems and additional antiaircraft artillery (AAA).

Mobile SAM Systems. Since 1984, the Soviets have provided Iraq with two new low-altitude SAM systems—the SA-8 and the SA-13. Satellite imagery shows that the SA-8 is deployed in rear areas near corps and division headquarters. The SA-13, the follow-on to the SA-9, will probably be deployed to the Iran-Iraq border and provide low-altitude air defense for one of the five Iraqi

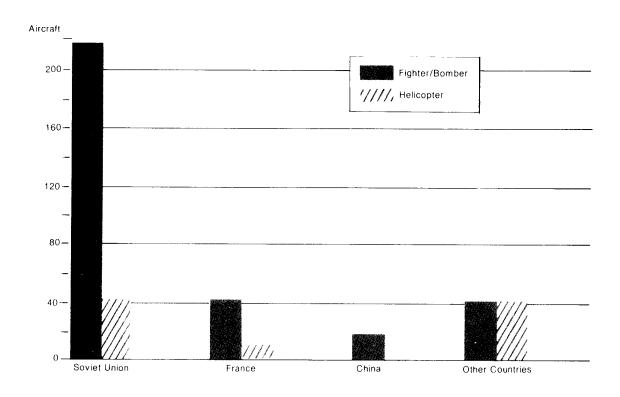
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Figure 6 Minimum Count of Aircraft Delivered to Iraq, 1983-87



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Fighters and Fighter-bombers. In 1985, Iraq became the first country outside the Soviet Union and Czechoslovakia to receive the SU-25 (Frogfoot) ground attack aircraft, and in 1986 it became the first country outside the Soviet Union to receive the MI G-29 (Fulcrum) fighter aircraft (figure 7). Analysis [

indicates that Iraq received 35 SU-25 ground attack aircraft in 1985 and 1986. The Iraqis first used the SU-25 in the Al Faw area in 1986,

In late 1986, Iraq received 21 MIG-29 fighters. the pilots for these planes were trained in the Soviet Union, and the aircraft could be available for operations by mid-1987. Since 1983, Iraq has also received at least 70 MIG-23 (Flogger) -- with 20 or more of these being the improved Flogger

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G fighter variantand over 60 SU-17/20/22 (Fitter) fighter-bombers. The delivery of the Frogfoots, Fulcrums, Floggers, and Fitters has allowed Iraq to deploy new fighter/bomber squadrons and maintain a numerical aircraft superiority over Iran. we believe Iraq has received over 40 French F-1 (Mirage) fighter-bombers since 1983; at least 20
O French F-1 (Mirage) fighter-bombers since 1983; at least 2
10 French F-1 (Mirage) fighter-bombers since 1983; at least 2
are capable of carrying the Exocet air-to-surface missile. According to defense attache reporting, in early 1986 the Iraqis completed training on an F-1EQ variant capable of carrying the AS-30L laser-guided missilewhich has a more powerful warhead than the Exocet.
China and Egypt are the only other countries to provide Iraq with a significant number of fighter aircraft since 1983. In 198 Egypt sold Iraq 40 F-7the Chinese version of the MIG-2 Fishbedthat were originally purchased from China. Between 1983-1985,
Bombers. The Chinese also shipped three of four contracted fo B-6D/Badger bombers (a Chinese-built version of the Sovietedesigned aircraft) in 1986. The B-6D can carry two Chinese produced C-601 air-to-surface missiles. Its unrefueled combaradius of 1,200 nautical miles gives the Iraqis the capability to attack any target in the Persian Gulf without having to refuel in neighboring states.
Helicopters. The Soviet Union has provided Iraq with 42 comba capable helicopters since 1983. Besides the Soviet Union; Wes Germany, Spain, France, and Italy are involved in the sale an supply of helicopters to Iraq, as Iraq continues to broaden it search for Western equipment. West Germany and Spain supplie Iraq with over 40 BO-105 helicopters, at least 10 of which th Iraqis have modified for ground attack purposes. France supplie at least 12 Gazelle helicopters, and Italy is negotiating fo helicopter sales to Iraq.

5 Some modifications to Iraqi helicopters have been done by Spain.

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US Arms Deals with Iraq			
The official US position conflict between Iran and other countries, including	Iraq. The U	nited States ha	s encouraged
either Iran or Iraq.			
however, within the last negotiated for the deliv	ery of the c	vilian version	is of the US
Bell 214ST helicopter and The contracts call for I	nd the C-130, rag to receiv	'L-100 transpo ve 45 of the m	rt aircraft. wlti-purpose
US-made 214ST helicopte Despite the civilian nat	rs and 10 l	-100 transpor	t aircraft.
Iraqis are likely to use	them for mili	tary purposes,	because the
Iraqis have converted all the US in 1983 to gunship) helicopters r	eceived from
	·		
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		•
Naval Vessels		
Naval Vessels		

Because the ports of Al Basrah and Al Faw are closed and the port of Umm Qasr is vulnerable to Iranian attack, Iraq has done little to improve its navy.

Iraq received two Osa II patrol boats from the Soviet Union in 1984 and has also taken receipt of ten Italian-produced ships,

The contract calls for Iraq to receive four frigates, six corvettes and one replenishment oiler. Because of the closure of Iraqi ports, the ships are currently still at the Italian shipyards.

urrently still at the Italian shipyards. 25X1

Use of Modern Arms

Iraq has considerably more military equipment than Iran, an advantage particularly evident in ground and air forces. Our analysis shows that Iraq enjoys:

- A 4 to 1 advantage in medium tanks.
- A 3 to 1 advantage in artillery.
- A 5 to 1 advantage in combat aircraft.

In spite of favorable weapon ratios, Iraq's military, albeit with Iranian help, has found ways to enable Iran to remain even.

Considering Iraq's current quantitative equipment edge and its continuing acquisition of new and often more sophisticated equipment, the failure of its military to decisively defeat Iran directs attention to Iraqi leadership and battlefield tactics.

From our analysis we have gained an understanding of how Iraq uses the many modern weapons at its disposal,

Tactics

For the past five years of the war, Iraq has pursued a strategy of strategic defense to minimize its own casualties and wage a war of attrition with Iran. Based on the historical record, such a strategy should have led to a lessening of Iraqi casualties with a corresponding increase in Iranian casualties. forces fighting on their own soil, with equipment superiority, in prepared defensives, and with strong interior lines of supply would seem to be in an enviable position. Ideally, they could punish Iranian forces without exposing themselves to the serious But, the losses sometimes realized in offensive operations. fervor of the Iranian attacks and Iran's seeming disregard for heavy casualties have put severe strains on the Iraqi strategy. One Iraqi response to the Iranian tactics has been to purchase increasing amounts of military hardware. But, as our evidence

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clearly shows, the addition of new weapon systems, for the most part, has not changed Iraq's conduct of the war or its success on the battlefield. 25X1 Armor 25X1 25X1 we know that the Iraqi Army provides very little infantry support to its armor. This tactic probably led to the large armor losses in past battles. In the March 1985 Iranian offensive west of the Hawizah Marsh, over 300 Iraqi medium tanks were lost or damaged--including as many as 120 of This despite the fact that the modern T-72s. 25X1 25X1 the Iragis had at least a 100 to 1 advantage over the Iranians in tanks. Again in the February 1986 Al Faw offensive, over 250 Iraqi medium tanks and APCs were lost or damaged. We believe that in both instances Iraq lost most of its armor to hand-held RPG-7 antitank weapons, because Iran had very few tanks involved in either battle. The lack of adequate Iraqi infantry support to counter Iranian infantrymen spelled disaster for Iraq's armor columns. 25X1 **A**rtillery 25X1 know that Iraq acquired we and self-propelled artillery assortment of new towed This artillery has been spread among Iraqi divisions and combat support units. During the past four years, Iraq used this artillery in counteroffensives and to Iranian offensives on the Majnun Islands and at Al Faw. 25X1 25X1 Despite the Iraqi quantitative advantage in artillery, in our judgment Iraq's artillery tactics are, for the most part, poor. Since the start of the war, Iraq has had a tendency to position its artillery too far to the rear, thus protecting it from the shorter-ranged Iranian artillery, but negating its long-range effectiveness. This was quite evident at Al Faw in 1986 when the artillery was originally positioned majority of Iraqi repositioned so it could only reach the Iranian frontlines and not staging areas in the rear, thus allowing the Iranians to

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continue their resupply effort west of the Shatt Al Arab.

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In another instance in the Al Faw campaign, Iraq employed the accurate, long-range GHN-45 gun-howitzer at close range against dispersed Iranian infantry positions instead of suppressing Iranian artillery located east of the Shatt Al Arab. This inefficient use of artillery, in our opinion, has negated Iraq's quantitative and qualitative advantage in artillery. Nonetheless, the Iranian attack on the South Majnun Island in September 1986 was hampered by effective artillery fire from the Iraqi artillery forces in III Corps.
Air Iraqi employment of combat aircraft has been poor. Despite an overwhelming advantage in combat aircraft, Iraq has failed to exploit this situation to the fullest. Iraqi General
Headquarters in Baghdad rigidly controls aircraft which, in turn, reduces pilot initiative.
Iraqi pilots fly bombing missions at altitudes of 10,000 to 20,000 meters, in an attempt to avoid Iranian defense, when Soviet doctrine calls for ordnance to be dropped from a height of 1,000 to 3,000 meters. The SU-25 Frogfoot ground attack aircraft is flown at altitudes of 3,000 to 5,000 meters rather than the recommended 200 to 2,500 meters. The flight profiles are part of the government's policy to minimize aircraft losses, but poor training and ineffective leadership undoubtedly play a part. In any case, high altitude attacks decrease targeting success.
In 1986, the Iraqi Air Force became more proficient. The combination of modern aircraft and weapons, a weak Iranian Air Force and air defense network, and more aggressive tactics have led to better Iraqi Air Force performance. By using the Mirage F-1 aircraft equipped with the AS-30L laser-guided missile, the Iraqi Air Force has inflicted heavy damage on Iranian oil facilities and powerplants. The Iraqis have also used the AS-30L against bridges spanning the Shatt Al Arab waterway to Al Faw, indicating that an abundant supply of the guided missiles are available for use in tactical operations. In our analysis, the
⁶ For further information on the Iraqi use of the GHN-45, see CIA,
Typescript Memorandum IA M 86-20071J, December 1986 (Top Secret Codeword Noforn Nocontract), The GHN-45 155-mm Gun Howitzer in Iran and Iraq: A Case Study of Modern Arms

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Iran-Iraq war will not be won in the air, but the increased aggressiveness of the Iraqi Air Force has reduced Iranian oil revenues, and hampered the Iranian preparations for major attacks.
Training
Throughout the war, the Iraqis have offered training courses on armor and field artillery tactics, and on joint combat helicopter and ground forces operations. Also, training exercises and battle simulations are conducted at the battalion, brigade, and division level at the front. air elements providing tactical support for the ground forces, this cooperation has not led to success at the front, indicating that joint training is
ineffective or insufficient. Indeed, despite specialized training, Iraqi ground forces have performed poorly in battle, probably because of the low level of training and the quality of leadership in the Iraqi ground forces. The initial training for infantry, armor, and artillery personnel occurs at three different garrisons:
 Infantry at Rasheed Barracks. Armor at Tikrit Barracks. Artillery at Khan Al Mahawil Barracks. Conscripts receive small arms training, driver training, and weapons familiarization. we believe combined arms training is not taught at these facilities. In our judgment, the Iraqis rely on the combat schools established in some of the infantry,
mechanized infantry, and armored divisions to teach combined arms training.
At the front, most training is at the battalion level in tank and artillery units. We see little evidence that mechanized infantry training or combined arms exercises with tanks and mechanized infantry. The lack of such training could help explain why the Iraqis suffer such heavy armor losses to the Iranians.
⁷ For further information on the Iraqi Air Force, see CIA Near East and South Asia Review, NESA NESAR 86-028C, SC00453/86, 19 December 1986 (Top Secret Codeword Noforn), Why the Iraqi Air Force Has Been More Effective.
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the Iraqi Air Force (IAF) training programs begin with the selection of applicants. Qualified cadets report to a three-year training course at the IAF Academy at Al Sahra Airfield near Tikrit. The course is broken down into six months of basic military training and one year of basic pilot training on L-29/Maya and L-39 jet trainers. Actual combat training is done at squadron level at the assigned air bases. Selection of which type of plane a pilot will fly has more to do with Ba'ath party membership than individual qualifications.	25X1 25X1
with Ba ath party membership than individual qualifications.	25X1
The air campaign in 1986 against Iranian economic targets indicates to us that Iraqi pilots are competent. In our opinion, the IAF's problems cannot be totally attributed to poor pilot training. Indeed, for each operation the IAF headquarters specifies the number of aircraft	25X1
to use, which pilots will fly, the target, ordnance to be used, and the altitude to fly for the entire mission. IAF headquarters also provides the exact coordinates where the pilots will turn. The centralized control of all aspects of the air operation is contrary to US Air Force doctrine which espouses centralized control of assigned air resources but decentralized execution of operations.	25 X 1
We do not know why the IAF headquarters places such stringent controls on air operations. This policy places undue stress on pilot capabilities, however, and we have detected problems in	051/4
Iraqi pilot training. Mirage pilots, who are trained by the French, are not instrument-qualified and only fly when the weather is good. F-1 pilots also do not train to bomb in close formation which results in wide	25X1
dispersal of ordnance. however, the French-trained F-l pilots are better trained than their	25 X 1
Soviet-trained counterparts on the MIG-23.	25 X 1

Implications and Outlook

Iraqi training, tactical use of military equipment, and leadership have all contributed to Iraq's lack of significant success. Iraq enjoys an overwhelming advantage in numbers of mechanized formations. But, poor training and poor weapons employment, in combination with the Iraqi pursuit of a static defensive posture based on prepared strongpoints, gives the initiative on the ground to the Iranians. Joint training between Iraqi air and ground elements has been insufficient to insure close cooperation and success at the front line. Artillery employment has had mixed success, although Iraq has an unqualified superiority in number of artillery weapons at the

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front. Centralized control of air force operations has minimized Iraqi air losses, but, at the same time, reduced the air force's effectiveness.	25X1
Nevertheless, the addition of new weapons and the continued delivery of weapons systems already in the Iraqi inventory should allow Iraq to maintain its defensive strategy in the war with Iran, if it so chooses. In our opinion, if Iraq is to continue to defend its border against Iran using its present strategy, a steady supply of tanks, APCs, artillery, ammunition, and other military-associated equipment will be needed to maintain its quantitative edge over Iran and to replace war losses.	25X1
Iraq will probably continue to import arms from its new suppliers, but the Soviet Union, in our analysis, will remain its main supplier. If the Soviet Union and China do not meet Iraqi armor needs, then Iraq may turn to Eastern Europe for Soviet-designed tanks and APCs or risk further complicating their logistics and training by purchasing tanks from Brazil or another Western country. We believe that Iraqwith this large infusion of non-Soviet equipmentmay eventually or may already suffer from maintenance and logistics problems because of the large variety of weapons. The Iraqis are pleased with the aircraft and training from France, according to a western military attache, and consequently they will probably seek additional combat aircraft from France, especially if the F-1 has continued success attacking Iranian economic targets.	25 X 1
In our opinion, Iraq will face some problems with creditors because the recent fall in oil prices reduces revenues. As a consequence, the Iraqi populace may be forced to accept severe austerity measures so Iraq can continue to finance the war. On the other hand, Saudi Arabia and Kuwait, Iraq's principal benefactors, probably see no alternative except to continue to support Iraq, despite lower oil prices, because they fear an Iranian victory.	25X
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Equi gnent	Other or Unknown	Austria	Brazil	Bulgaria	China	Czechoslovakia	Egypt	France	Hungary	Poland	South Africa	Soviet Union	Total_
Tank <u>s</u> b T-72 Type 59/69					927	22						225	1,341
T-54/55 Unidentified Tanks					027		50 ^b			100		117	
Armored Personnel Carriers BND SMP MT-LB STR-60 PB STR-60 PU ACRV				196		250						106 262 59 87 8	1,699
French 4x4 VAB AMX-10 Type 701A/750 Command					144			33 2					
Vehicle Ambulance Type 63/531					378								
Unidentified Armored Personnel Carriers	63			16	20							60	
Armored Reconnaissance Vehicles BRDM-2 EE-11 (Urutu)	1		45									91.	379
EE-9 (Cascavel) Fiat Unidentified Armored Reconnaissance Vehicles	35 32		1 60									15	
Unidentified Armored Vehicles ^C	85				427							99	611
Artillery 122-mm/152-mm SP howitzer 155-mm GCT SP howitzer		1.70		6				52				45	8 92
155-mm GHN-45 howitzer 155-mm G-5 howitzer 152-mm M-1984 howitzer		170			160						72		
152-mm D-20 howitzer 152-mm ML-20	12											16	
130-mm 1-45 field gun 122-mm D-30 howitzer 105-mm howitzer	19 36											89	
85/100-mm antitank gun Astros II multiple rocket launcher	25		20										
122-mm (BM-21) multiple rocket launcher Unidentified artillery ^e	38				46							55 16	

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Appendix Minimum Count of Major Weapon Deliveries to Iraq January 1983 through 31 December 1986^a (continued)

<u>Equi pment</u>	Other or Unknown	Austria Brazil Bulgaria	<u>China</u>	Czechoslovakia	Egypt	France	Hungary	Pol and	South Africa	Soviet Union		
Antiaircraft artillery 57-mm AAA 37-mm AAA	24		683				118					1,342
23-mm (ZU-23) AAA 14.5-mm (ZPU-2/4) AAA	24		192							79		
Unidentified Antiaircraft Artillery	3		235							8		
SAM Equipment SA-13 Transporter-erector launchers (TEL) SA-8 TEL SA-6 TEL SA-6 Missiles SA-3 Launcher SA-3 Canister Transporter SA-2 Launcher SA-2 Missiles SA-2 Missiles SA-2 Missiles										12 6 6 240 17 6 26 42 76		
Roland II Launcher SSM Equipment Scud Missile Airframe										1 22 54		
Frog-7 Rocket Aircraft										15		364
Mig-25 (Fulcrum) Mig-25 (Foxbat) Mig-23 (Flogger) Mig-21 (Fishbed) UMig (Trainer) SU-25 (Frogfoot) SU-17/20/22 (Fitter) [£]										21 11 73 9 4 36 61		304
F-7 Mirage F-1 ^g			43		40	43						
B-6D (Badger-China) MI-17 (Hip-H) helicopter MI-24/25 (Hind) helicopter MBB BK-117 helicopter MBB 30-105 helicopter			3							34 8	6 UNK	
SA. 341/342 (Gazelle) helicopter						12					UNA	

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barrage may have also received 50 to 60 TR-77 tanks—the Romanian version of the T-55 tank. Carthe phrase unidentified armored vehicles includes all armored vehicles we could not more precisely identify as tanks or APCs darrage could have received as many as 38 Astros II MRLs. eAntitank gun of unknown caliber. funcludes 34 Fitter J. Janoludes 20 Mirage P-1EQ5 fighter-bombers—the Exocet carrying variant. harage has received at least 40 30-195 helicopters from Spain and West Germany, and nine to 13 have converted to gunships. This appendix is Secret Noforn.

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