



**US Army Corps
of Engineers®**

July 2007 - January 2009 Planner

U. S. Army Corps of Engineers in Iraq and Afghanistan



U.S. Army Corps of Engineers photo by Polli Barnes Keller



The Fertile Crescent is located in Dhi-Qar Province between the Tigris and Euphrates Rivers. Dhi-Qar is an agricultural-oriented province of 1.4 million people and has high unemployment. The province is in the center of the Cradle of Civilization and dates back to 10,000 B.C.E., when man first domesticated animals, planted and irrigated crops, devised a written alphabet, and developed the first written code of laws, the Code of Hammurabi. Dhi-Qar is also the birth place of Abraham (father of the Muslim, Jewish and Christian faiths) at Ur near the provincial capital Nasiriyah. The focus of the U.S. Army Corps of Engineers' reconstruction work in the province includes farm to market roads, schools, medical facilities, and water supply and distribution. (U.S. Army Corps of Engineers photo by Betsy Weiner)



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July 2007

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 Independence Day	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



A fire station under construction in southern Iraq. By early 2007, approximately 70 percent of U.S.-funded contracts were being awarded to Iraqi firms, building both needed human capacity and infrastructure. At the same time, the U.S. Army Corps of Engineers had completed over 3,000 projects. (*U.S. Army Corps of Engineers photo by Betsy Weiner*)



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August 2007

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



This mass grave in the Iraqi desert is one of an estimated 260 sites containing victims of Saddam Hussein's government. A U.S. Army Corps of Engineers team of archaeologists, forensic anthropologists, photographers, collection managers, archivists, legal specialists and support staff collected information used in the trials of Saddam Hussein and other former regime officials. (*U.S. Army Corps of Engineers photo*)



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September 2007

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 Labor Day	4	5	6	7	8
9	10	11 Patriot Day	12	13	14	15
16	17	18	19	20	21	22
23 / 30	24	25	26	27	28	29



An Iraqi worker replaces blades on a gas turbine at the Khor Az Zubayr Power Plant near Basrah. As of January 2007, the U.S. Army Corps of Engineers has added 1,420 megawatts to the national power grid by building new power plants and rehabilitating old ones. By the end of 2006, Iraq's electrical power production was 4,500 megawatts, which included 2,600 megawatts contributed from U.S. sources. Much of Iraq's pre-war power production and transmission capacity was lost to the looting that occurred soon after the start of Operation Iraqi Freedom. (*U.S. Army Corps of Engineers photo by Steve Wright*)



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October 2007

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
7 Operation Enduring Freedom begins. (2001)	8 Columbus Day	9	10	11	12	13
14	15 Ten million Iraqis vote on Constitutional referendum. (2005)	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			



An Iraqi engineer checks construction of the new Basrah Courthouse. The U.S. Army Corps of Engineers has hired several hundred Iraqi engineers to support a nationwide construction effort. Most of the U.S.-funded construction work in Iraq is accomplished by Iraqi contractors and workers with oversight by the U.S. Army Corps of Engineers and Iraqi engineers. (*U.S. Army Corps of Engineers photo by Betsy Weiner*)



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November 2007

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
11	12 Veteran's Day	13	14	15	16	17
18	19	20	21	22 Thanksgiving	23	24
25	26	27	28	29	30	



The Tal Afar Granary renovation project gave Iraq the capacity to store 75,000 tons of grain in a facility that had been inoperable since 2003. Once considered the second largest value sector in the country, agriculture in northern Iraq had been declining for years, but renovation of this and a second storage facility in the Ninewa Province by the U.S. Army Corps of Engineers provide a reliable means to process, store and distribute various grain crops. *(U.S. Army Corps of Engineers photo)*



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December 2007

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6	7 Hamid Karzai first democratically elected president of Afghanistan. (2004)	8
9	10	11	12	13	14	15 Twelve million Iraqis vote in legislative elections. (2005)
16	17	18	19 Afghanistan National Assembly inaugurated. (2005)	20	21	22
23 / 30	24 / 31	25 Christmas	26	27	28	29



Oil is uploaded to a supertanker at Iraq's Basrah Oil Terminal in the Persian Gulf. Iraq's proven oil reserve of 115 billion barrels is the world's fourth largest, although only 10 percent of Iraq has been seismologically explored and the true size of Iraq's oil reserve is unknown. To fully capitalize on its wealth, Iraq's oil infrastructure needs upgrading. Current oil production is about 2.5 million barrels per day, exceeding Iraq's 2002 pre-war production of two million barrels per day. The U.S. Army Corps of Engineers undertook a program to help restore Iraq's oil production in 2003 and continues to work with the Iraqi's oil industry to improve its oil infrastructure. *(U.S. Navy photo)*



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January 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 New Year's Day	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21 Martin Luther King, Jr. Birthday	22	23	24	25 U.S. Army Corps of Engineers' Gulf Region Division established. (2004)	26
27	28	29	30 Eight million Iraqis vote in first general elections. (2005)	31		



This Ottoman castle overlooks the city of Tal Afar in Ninewa Province. The castle encloses five city blocks. Within the castle walls, the U.S. Army Corps of Engineers, in coordination with Iraqi authorities, constructed the Tal Afar mayor's office and police station as part of the infrastructure reconstruction program. *(U.S. Army Corps of Engineer photo by Polli Barnes Keller)*



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February 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18 President's Day	19	20	21	22	23
24	25	26	27	28	29	



School Before

School After

Before and after photos of an Iraqi "mud" school in southern Iraq. The new school replaced one that had dirt floors, earthen walls and a thatched roof. The U.S. Army Corps of Engineers has replaced or substantially rehabilitated 1,000 schools throughout Iraq. (U.S. Army Corps of Engineers photos by Betsy Weiner)



Classroom Before

Classroom After



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March 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1 U.S. Army Corps of Engineers Afghanistan Engineer District established. (2004)
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19 Operation Iraqi Freedom begins. (2003)	20	21	22
23 / 30	24 / 31	25	26	27	28	29



An explosion from the demolition of Iraqi munitions in southern Iraq. The U.S. Army Corps of Engineers is responsible for receiving, transporting, segregating and destroying captured or any other munitions posing a danger in Iraq. To date, more than 400,000 tons of munitions have been destroyed by members of the Center of Expertise for Military Munitions, the Engineering and Support Center in Huntsville, Alabama. The destruction of these munitions significantly reduces risks to Iraqi citizens and U.S. personnel. *(U.S. Army Corps of Engineers photo)*



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April 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22 Nouri al-Maliki first elected Iraqi Constitu- tional Prime Minister. (2006)	23	24	25	26
27	28 Iraqi Transitional Government formed. (2005)	29	30			



The Jotan Border Fort in northern Iraq. The U.S. Army Corps of Engineers has overseen the construction of nearly 300 of these structures that serve as bases of operations for the Iraqi Border Police. Six nations neighbor Iraq: Saudi Arabia, Jordan, Syria, Turkey, Iran and Kuwait. (*U.S. Army Corps of Engineers photo by Polli Barnes Keller*)



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May 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26 Memorial Day	27	28	29	30	31



Flaring natural gas is a common sight in Iraq. In the oil production process, Iraq burns \$10 million of natural gas daily, a result of inadequate oil infrastructure. Iraq has proven natural gas reserves of 110 trillion cubic feet with another 150 trillion cubic feet of probable reserves. (*U.S. Army Corps of Engineers photo by Betsy Weiner*)



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June 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1 Iraqi Interim Government announced. (2004)	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28 Sovereignty assumed by Iraq government. (2004)
29	30					



This Marsh Arab (Mandan) family, shown beside their mud and reed home, is among the estimated remaining 20,000 in the lowlands near the confluence of the Tigris and Euphrates Rivers in southern Iraq. The Mandan population was 250,000 in 1991 before the Saddam Hussein government drained 90 percent of the 20,000 square kilometers of marshes causing what the United Nations considers one of the world's most significant environmental disasters. (*U.S. Army Corps of Engineers photo by Betsy Weiner*)



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July 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4 Independence Day	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		



Bridge piers fade as fog rolls across the Oxus River toward Tajikistan, surrounding the piers and workers at the Afghanistan-Tajikistan bridge site. The \$30 million project, scheduled for completion in August 2007, will span 673 meters with one traffic lane in each direction and an additional path for small carts, bicycles and pedestrians. Additionally, the bridge will expand the trade route from Tajikistan to Pakistan, cutting the distance to an open sea port by almost half. *(U.S. Army Corps of Engineers photo by Maj. Bryan S. Haver)*



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August 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24 / 31	25	26	27	28	29	30



Workers completing construction on the U.S. Coast Guard's Forward Operating Base at the Umm Qasr Port in southern Iraq. The Port of Umm Qasr, located in the Basrah Province, is Iraq's only deep water port and vital to the country's trade. (*U.S. Army Corps of Engineers photo by Suzanne Fournier*)



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September 2008

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 Labor Day	2	3	4	5	6
7	8	9	10	11 Patriot Day	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				



An Afghan National Army facility under construction in Gardez. The structure will be used by the Afghan Army Regional Command. The Afghanistan Engineer District has completed dozens of facility projects for the Afghan National Army which include hospitals, barracks, administrative and logistics buildings. (U.S. Army Corps of Engineers photo)



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12	13 Columbus Day	14	15 Ten million Iraqis vote in Constitutional referendum. (2005)	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



Road construction is vital to Iraq's 18 provinces. Each province has received up to \$10 million for reconstruction projects of their choosing through the Provincial Reconstruction Development Team program. (*U.S. Army Corps of Engineers photo by Betsy Weiner*)



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November 2008

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2	3	4	5	6	7	8
9	10	11 Veteran's Day	12	13	14	15
16	17	18	19	20	21	22
23 / 30	24	25	26	27 Thanksgiving	28	29



A gift of water to Tal Afar. A worker descends from a water storage tank in Tal Afar in Ninewa Province in northern Iraq. The mayor of Tal Afar drinks potable water from a new system installed by the U.S. Army Corps of Engineers that provides new wells and compact reverse osmosis water units. In 2005, this city of 250,000 - mostly Turkomans - was taken back from al Qaeda terrorists by U.S. troops. (*U.S. Army Corps of Engineers photos by Polli Barnes Keller*)



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21	22	23	24	25 Christmas	26	27
28	29	30	31			



The U.S. Army Corps of Engineers installed pipelines across the Tigris River, near Bayji in north-central Iraq. The project provides the capacity to transport crude oil from Iraq's Kirkuk Oil Fields across the Tigris River to the Bayji Refinery, the export pipeline to Turkey, and other locations throughout the country. The Kirkuk Oil Fields have a production capacity of 800,000 barrels per day. (*U.S. Army Corps of Engineers photo*)



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January 2009

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4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19 Martin Luther King, Jr. Birthday	20	21	22	23	24
25 U.S. Army Corps of Engineers Gulf Region Division established (2004)	26	27	28	29	30 Eight million Iraqis vote in first general elections (2005)	31



Several thousand civilian employees of the U.S. Army Corps of Engineers have voluntarily served in Iraq and Afghanistan in direct support of Operation Enduring Freedom. In working side by side with Iraqi and Afghan engineers, contractors, elected officials and citizens, these civilian employees have aided in building military and civil works infrastructure as well as providing capacity to their Iraqi and Afghan colleagues and associates. *(U.S. Army Corps of Engineers photo by Tom O'Hara)*