HEARTLAND ENGINEERS

A Century of Superior Service 1907 - 2007



Kansas City District

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Project Manager: Bryan Saunders, US Media Services / Post Modern Company Design and Layout: Mary Hemmingway-Emrich, Black & White Graphic Design

Research and Writing: Kimberly Langas

Project Consultant: Paul Feldman, US Media Services / Post Modern Company

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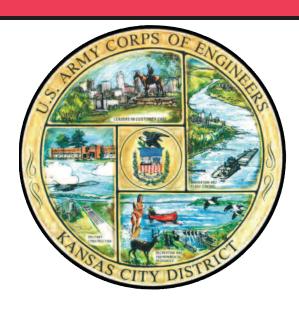
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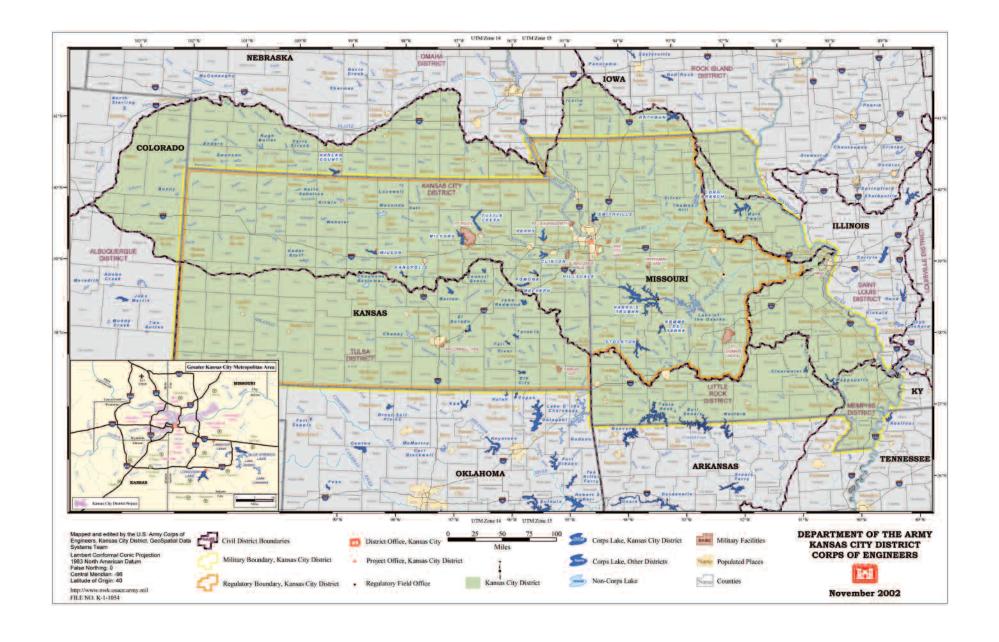
Much of the history of U.S Army Corps of Engineers, Kansas City District, has been set forth in various historical documents as well as through oral renditions by long-time employees; the facts as represented here are accurate to the best of the company's knowledge. Various Internet websites were utilized to verify or supplement facts and were not quoted verbatim. The information utilized from such websites reflects the content on the websites at the time the research was performed.

All photos provided by U.S Army Corps of Engineers and its resources except as noted.





Foreword by Colonel Roger A. Wilson Jr
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In 1907 the Corps of Engineers established an office in Kansas City "...to explore the feasibility of improving navigation on the Missouri River." That office eventually became a District Headquarters. From this humble beginning, the Kansas City District is now considered a full-service District with environmental services, military construction, civil works construction, and operations responsibilities across portions of five states in the Midwest. It is one of only 18 Districts of the Corps' 45 to perform a military construction mission. The District has constructed hundreds of miles of levees and oversees those and many more constructed by others along the Missouri River and her tributaries. The District uniquely supports the Environmental Protection Agency in two separate geographic regions of the country, Region VII in the Heartland and Region II in the Northeast.

For over 100 years the Kansas City District stepped up to every challenge and served the Heartland and Nation with great distinction. It has done so during times of armed conflict, even sending its own overseas to aid war fighters and host nations during hostilities. It has done so during severe economic depression and times of great prosperity. It has done so in times of drought and disaster as witnessed during the 1935, 1951 and 1993 great floods. And, it has done so during periods of intense political, cultural, natural resource and environmental awareness. Throughout these times, the District stood ready, answered every call to duty and made a difference in the lives of people.

To commemorate the District's first 100 years of service and the myriad of outstanding accomplishments, I'm honored to present to you "Heartland Engineers: A Century of Superior Service." While not all encompassing, this book is representative of the major accomplishments of the District since it was established in 1907, and it pays tribute to the men and women, past and present, who achieved such greatness.

As we look forward to our next century, we are now confronted with our own set of seemingly insurmountable challenges ranging from an era of persistent conflict to global climate change. However, like taming a river for navigation, I'm confident we will meet these contemporary challenges and contribute to the rich heritage of the Heartland Engineer.

I want to thank all my predecessors, the commanders, who guided and led this District to the place it occupies today – a respected, service oriented agency of professionals. And, I want to thank those that participated in the completion of this important keepsake celebrating our past. I trust you will use it as a showcase and source of pride, and I hope you enjoy it for many years to come. Congratulations and good luck during the next 100 years!

Building Strong!

Colonel Roger A. Wilson, Jr. 42nd Commanding Officer Kansas City District

A very special thanks to all past and current Kansas City District employees who have contributed institutional knowledge, photographs or both to the successful completion of this Centennial book.

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Sincerely,

David S. Kolarik,

Kansas City District Public Affairs Officer





George Washington appointed the first engineer officers of the Army on June 16, 1775, during the American Revolution, and engineers have served in combat in all subsequent American wars. The Army established the U.S. Army Corps of Engineers (USACE) as a separate, permanent branch on March 16, 1802, and gave the engineers responsibility for founding and operating the U.S. Military Academy at West Point.

In 1803, President Thomas Jefferson commissioned U.S. Army Captain Meriwether Lewis and Lt. William Clark to explore the northern portion of the recently acquired Louisiana Purchase in hopes of finding an overland route to the Pacific. Their expedition was called the Corps of Discovery, and their years of exploration, mapping, navigation and studies of the environment would lay the foundation for the USACE as a unique organization of experts across multiple disciplines.

Since Lewis and Clark returned from their expedition, the USACE, more commonly referred to as "the Corps", has had very close ties to the Missouri River and its numerous tributaries. The Missouri River in its natural meandering state was infamous for its constantly shifting channels and erosive forces that ate away its banks and turned its waters the color of mud. Violent floods in the spring and summer devastated communities along the banks and inundated valuable agricultural and industrial acreage.



Photo left: The dredgeboat Meriwether Lewis

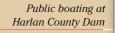
Since 1907 – continuing the early work of the Corps in pegging down the river – the Kansas City District has removed snags, protected banks, constructed navigation channels and built extensive flood control structures along the Missouri River, thus providing important socioeconomic benefits to the Heartland and the entire Nation. Throughout the years, legislation has further enabled the District to incorporate other benefits into its projects. From water supplies and hydropower, to recreation and transportation, the mission of the Corps has grown and changed much like the rivers of the Region.

The World War II era brought major changes to the District. The Flood Control Act of 1938 launched several decades of dam. building for the District, beginning with Kanopolis Lake in 1940. This era also saw major changes in the District's military mission. The Corps was called on to design and build the infrastructure necessary to accommodate the expanding and evolving Armed Forces. For over half a century, the District has spearheaded massive construction projects including ordnance facilities, state-ofthe-art training facilities, airfields, hospitals, barracks, dependent housing and amenities. The Cold War era brought even greater challenges for the District, as it had to keep pace with the new weaponry advances and build structures fast enough to support them.

By the 1970s, the Nation began to focus on environmental issues. The legacy of the Cold War left numerous former defense sites that stored and utilized hazardous sub-



Visitors Center at Smithville Lake





New construction at Fort Leavenworth

Great Flood of 1951





Brush Creek improvements, Kansas City



Towboat pushing barges up the river

stances which may later pose a threat to the health of the general public. The Kansas City District was called upon to assist the Environmental Protection Agency (EPA) to perform massive cleanup at Superfund sites throughout portions of the United States. The Department of Defense (DOD) also assigned the District to manage and clean up radiological waste generated from the development of nuclear weaponry, under the Formerly Used Sites Remedial Action Plan (FUSRAP) for the Department of Energy as well as Formerly Used Defense Sites (FUDS). Much of that work continues today.

Cleaning up the environment also meant cleaning up water sources and restoring the habitat of fish and wildlife. USACE has regulatory responsibility over the Nation's wetlands. In recent years, the District has partnered with a wide range of federal, state and local agencies and organizations to restore some of the Missouri River's ecosystem back to its natural state. This decades-long effort is providing protection for endangered species that make the Missouri River their home. The effort also expanded the opportunities for recreation and use of the river for residents and visitors who come to explore Lewis and Clark's "Gateway to the West."

For all of its many accomplishments, the Kansas City District has relied on countless dedicated personnel who have worked and served with great pride for many years. We celebrate these accomplishments and honor the contributions made by our people and partners each and every day.

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Blue Springs Lake and Dam, 1980s

USACE vessel Sgt. Floyd



Kansas City constructed the Turkey Creek Tunnel in 1919

Boat unloading at elevator and freight house, Hermann, MO



The District is currently rehabilitating the Turkey Creek Tunnel

Great Flood of 1951



Aerial of Missouri River modifications, 1953



District construction along the Missouri River





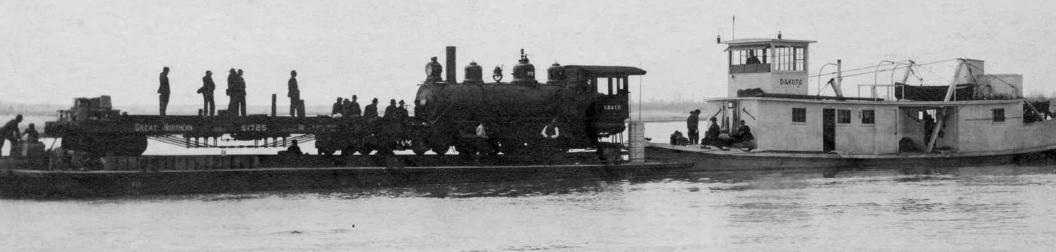
Great Flood of 1993



Large debris washed ashore

15 INTRODUCTION





REIGHTING ON THE MISSOURI WILLISSTON N.D.

PASON

CHAPTER ONE



CHANNELING THE "MUDDY MO" (1907-1917)

In 1907, the Sioux City Office of the Army Corps of Engineers, along with its mission, was moved to Kansas City, Missouri and designated as the Kansas City District. Capt. Edward H. Schulz was appointed as the first District Engineer.

The most pressing need for the District was to continue to improve navigation on the sprawling and constantly changing Missouri River. Schulz knew that improvements in navigation could provide a boost to the local economy, and he set out to convince Congress of the same.

In 1908, armed with records from the locally formed Missouri River Valley Improvement Association, Schulz informed Congress how the farming economy was losing millions in potential revenue due to slow shipping on the rivers and skyrocketing railroad freight rates. River channel improvements would provide shipping alternatives and more competitive freight rates. What's more, channeling the river would help slow erosion of the banks, resulting in more usable land along the river for crops and increased prosperity for the Region.

Photo left: Freighting on the Missouri, Williston, ND, 1913



















Snagboat Mandan from bluff in left bank, Missouri River, July 12, 1912

Schulz's efforts were successful. In 1910, Congress authorized \$1 million in funding to create a permanent six-foot navigable channel between Kansas City and St. Louis, as well as an additional \$300,000 for channel modifications between Kansas City and Fort Benton, Montana.

One effective process Corps engineers used to deepen the channel was by building dikes that would slow and filter the water, but not block its flow. Mattresses of willow branches were woven together that would help trap the sediment flowing downstream. After a couple of years the sediment buildup would form manmade sandbars. These sandbars could then protect the bank from erosion, turn the current in a certain direction, and help in the narrowing of the channel. Ultimately, the sandbars could create a swifter current that would carve the bottom of the channel into a navigable depth.



Constructing revetment weaving mattress and grade bank, Council Bluffs, IA

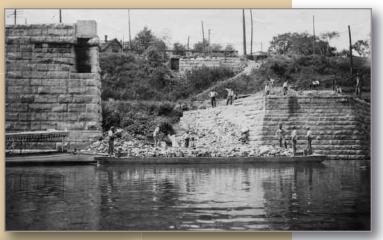
Granite rocks were sometimes used to weigh down mattresses





Workers build mattresses on a barge

Removing left abutment at Flowline bridge. Barge loaded with 25 yards of stone and ready for timing to Missouri River, August 27, 1913





Steel rings and I-beam removed from tubes. August 27, 1913



Steamboat August Wohlt loaded with wheat, corn and produce, May 4, 1918

By 1912, Congress adopted the "Ten Year Plan" for developing the river, which called for \$2 million per year for systematic river improvements. Although Congress never actually provided the full funding, authorization of the plan sparked local interests to invest in development as well. Over \$1 million dollars was pledged to create steamboats to run between Kansas City and St. Louis. Port facilities were constructed in St. Louis, and \$75,000 in bonds were issued for building port facilities on the Kansas City riverfront.

Navigation on the river soared. In 1911, the river had hosted 63 shippers and 1,084 tons of freight. Just three seasons later, in 1914, the numbers jumped to 221 shippers and 13,677 tons of freight.

Unfortunately, with the onset of World War I, funding decreased and the momentum was lost. By 1915, channel improvements were only 14 percent complete. And by 1916, funding had ceased altogether. While the initial goals of the Corps were put on hold, much was accomplished to establish the future of the Corps missions and its plans for the river.



Barges for JW Thompson, 1909

Workers use timbers to help reinforce the bank

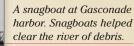




An example of bank erosion

A steamboat sinks in the middle of the Missouri River. Removing hazards to navigation and improving the movement of freight on the Missouri River was the primary mission for the Kansas City District when it came into existence in 1907.







Fascine dikes were comprised of long bundles of branch cuttings bound together into sausage-like bundles

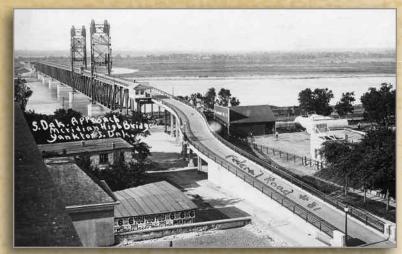
Workers weave willow mattresses



Another example of fascine dikes



South Dakota approach to Meridian High Bridge, Yankton, SD



Construction at Fort Leavenworth, 1909



CHAPTER ONE ◀ 21







CHAPTER TWO



THE EBB AND FLOW OF NAVIGATION EFFORTS (1918-1927)

The District's second decade brought the challenge of meeting the needs of local river interests during a time when national interests were opposed to further development of the river, in part because of the need to reallocate resources in support of World War I.

In 1918, the Kansas City Navigation Company sold its boats and barges to a federal barge line operating between St. Louis and New Orleans. Congress saw the Mississippi River as a "better river highway" than the Missouri, because it had a deeper channel and could carry more tonnage in assisting the war effort.

As a result, traffic on the Missouri declined significantly and many improvements fell into disrepair. By 1921, only a little over a third of the original plan for a six-foot navigable channel was complete, and the improved areas downstream of Kansas City could only report a low water depth of four and a half feet.



Workers inspecting dike structure

Photo left: Snagboat on Missouri River

1918

World War I









1922 Walt Disney opens first animation studio at 31st and Forest



1926 Liberty Memorial dedicated



1927 Babe Ruth hits 60 home runs in one

Local river development interest groups were unwavering in their attempts to see the District's original navigation efforts continued, despite recommendations to the contrary. In 1923, the Mississippi River Valley Association was successful in convincing Congress to appropriate \$1.2 million in improvements. The District resumed work on the river, but the limited funds only allowed for repairs to existing revetments and progress was slow.

In 1925, as a sign of increasing federal interest in water resources development, Congress ordered The Secretary of War and the Federal Power Commission to study the options of combining navigation, hydropower, flood control and irrigation works. The agencies responded with 308 Reports. The resulting studies from "308" would ultimately serve as the basis for the District's plan for development of the entire Missouri River Basin for years to come.



Construction of a Louisiana Railway car barge

Sioux City waterfront





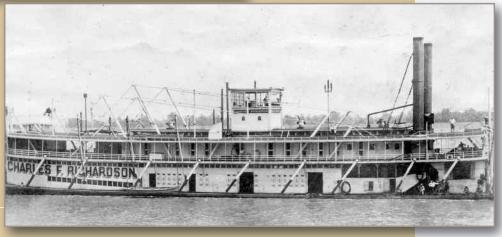
Dredgeboat Patricia Barrett, built in 1926

Caving bank partially graded, showing willow mat ready for paving stone





Concrete beam crib dike



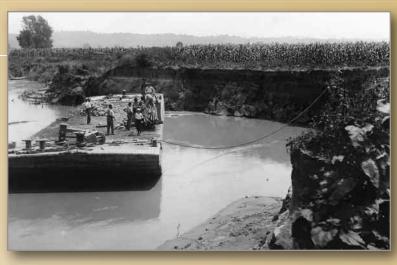
Charles F. Richardson, built 1921 By October of 1925, another local organization dedicated to river navigation had formed: The Missouri River Navigation
Association. At its initial meeting, the keynote speaker was then-Secretary of Commerce, Herbert Hoover. Hoover excited the convention with his vision of a nine-foot deep navigable channel in the Heartland, with further improvements extending upstream to Sioux City, Iowa.

Congress agreed to a revised version of Hoover's plan and in 1926 appropriated \$12 million for the project. Channeling the river would resume again with many of the same methods originally proposed by Corps engineers in the late 1800s. They would build structures to guide the current and trap silt, forcing the river to carve out its own channel.



Construction nearly complete on the towboat Sarah Edenboon

Bank erosion threatens a crop of corn



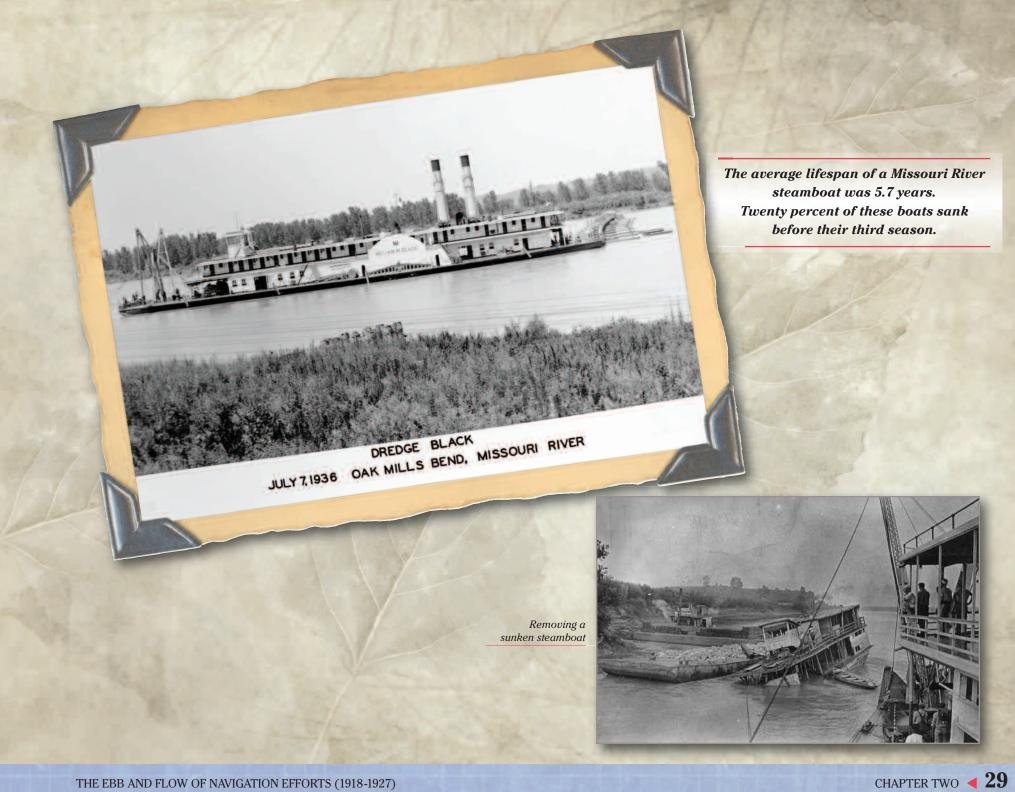
Hydraulic grading on bank

Workers taking a break during railroad bridge construction





First "Kellner Jetties" built near the foot of Dorman Street. Patented by Mr. Kellner of Atchison, Kansas – October 1925





CHAPTER THREE



PLANNING FOR PROTECTION FROM FLOODS (1928-1937)

Despite an influx of funding in the late 1920s, most of the traffic on the river was limited to hauling materials used for the navigational improvements. As the Great Depression took its toll on the national economy at every level, the transportation needs on the river all but disappeared. Relief came in the early 1930s in the form of President Franklin Delano Roosevelt's New Deal and the subsequent National (Industrial) Recovery Act (NIRA), which provided job opportunities to unemployed workers in part by allowing the President to approve new water resources projects.

Work on the river began again, and the economic relief allowed the Kansas City District to expand their regional client base and focus on flood protection in areas adjacent to the river. It was estimated at the time that over two million acres of urban and rural land were susceptible to devastating floods, at the expense of \$4.5 million annually. In 1933, the Missouri River Division was established as a way to more efficiently meet the challenge of the vast projects assigned to the Kansas City District by the NIRA. The Kansas City District boundary

Photo left: Laborers building mattresses, 1931

changed from the entire Missouri River basin to the lowermost states in the basin.



Kansas City



Municipal Auditorium



Social Security Act







Protection from floods as a mission for the Kansas City District gained even more momentum in 1933, when the District released its 308 Plan, as called for by Congress in House Document 308 in 1926. The plan presented an extensive study of the entire Missouri River Basin, taking into consideration how flood control measures could be effectively combined with other water resources developments like navigation, irrigation and hydropower.

The 308 Plan recommended a system of reservoirs and levees to protect local communities during flood conditions. It called for continued work on the six-foot navigable channel, extending it from Sioux City to Kansas City, as well as expanding the existing project to create a nine-foot navigable channel from Kansas City, MO to the mouth. The plan also proposed the first dam for flood control at Fort Peck, MT, which was part of the Kansas City District at that time. The Fort Peck reservoir would store headwater to supplement low water flows, and help maintain project depth for the six-foot and nine-foot navigation channels. Additionally a reservoir near Topeka, KS was recommended to supplement Fort Peck and control flooding on the Kansas River.



Wood Bros. construction tow, 1928

Laying timber for mattressing, early 1930s





Taking a break from hard work on the river

Loading dock for rock, Sioux City, Iowa, 1932





Workers cutting timber, 1936



Kansas dust bowl

Finally, the 308 Plan called for development and construction of a reservoir system on the Upper Missouri River that would use water for power and navigation.

When President Roosevelt and Congress started the Fort Peck Project under the NIRA in 1933, thousands from all over the country converged upon Montana in hopes of finding work after the devastating losses of the dust bowl and Great Depression. More than 7,000 men and women were employed to work on the dam itself, while thousands more set up businesses in the surrounding areas to support the workers and their families.

Corps engineers were charged with rapidly developing new techniques and solving extensive technical challenges. The complexity of the mission was described by Maj. Clark C. Kittrell, Fort Peck's District Engineer in the 1930s: "No engineering job of this magnitude had ever been attempted with so short a time for planning." Little did he know how prophetic his words would seem in the ensuing years as the District's roles and responsibilities expanded.



Dredge pipeline floating on water





Old wood dike that has fulfilled its purpose, Baltimore Bend



Bridge construction, 1928. Bridge building was another large part of river improvements made by the District



Workers making string dike, Camden Bend, 1936



Captain Meriwether Lewis dredgeboat, capable of sucking and discharging 3,000 cubic yards of sediment an hour

An excerpt from FDR's speech at Fort Peck Dam, August 1934



President Roosevelt visits Fort Peck Dam, August 6, 1934

Now people talk about the Fort Peck Dam as the fulfillment of a dream. It is only a small percentage of the whole dream covering all of the important watersheds of the Nation. One of those watersheds is what we call the watershed of the Missouri River, not only the main stem of the Missouri, but countless tributaries that run into it and countless other tributaries that run into those tributaries. Before American men and women get through with this job, we are going to make every ounce and every gallon of water that falls from the Heaven and the hills count before it makes its way down to the Gulf of Mexico.

It is because we have undertaken this gigantic task that will take us more than a generation to complete, because we have undertaken it now, and the people of the United States understand the objective of the idea, that I feel very certain we are going to carry it through to a successful

That is one reason, my friends, the chief reason, that I am glad to be out in these parts today to see the work in its inception; to see the fine spirit of all the people who are engaged in the work. That is why, also, that I am very confident it is going to be carried through to the success and glory of the Nation.



CHAPTER FOUR



EXPANDING ROLES IN AND OUT OF WARTIME (1938-1947)

Kansas City District's fourth decade saw the greatest expansion of its role in serving the Nation. With the growing specter of another world war looming, the military needed to quickly build facilities for housing and training the growing number of troops being inducted. Military planners called on the "Heartland Engineers". The Kansas City District represented a logical entity to provide these vital services. Its personnel were most familiar with local resources and construction capabilities and its engineering expertise was unparalleled. An intensive schedule of massive military construction began in 1940.

The District's civil works lost its priority to the war effort, but in the years preceding WWII the District reached an important milestone. In 1938, it was estimated that \$164 million had been spent on river improvements from Sioux City to the mouth. The river projects to date had saved an estimated \$24 million in maintenance costs and an additional \$50 million in value from land secured by channeling, as well as \$10 million in land created by river control. The combined benefits amounted to approximately 52 percent of the projects cost.

"The work of the District and the benefits it delivered to the people of the Heartland Region of the Missouri Basin had expanded far beyond the assignment which the Army engineers had been given a

half a century earlier."

Photo left: Workers reinforce the river bank with asphalt, 1939

- John Ferrell, *Heartland Engineers*

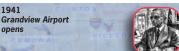


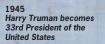
Construction began on Kanopolis Dam in 1940













1945 World War II

As World War II escalated overseas in 1940, the District's mission expanded to include extensive military construction. Design and construction began immediately on Lake City and Weldon Springs ordnance facilities. The North American bomber plant and airfield was built in the Fairfax district at Kansas City. Fort Leonard Wood was built as a major training facility. The Corps completed 1,600 buildings in just six months – even though challenged by rough terrain and uncooperative weather conditions. Forts Leavenworth and Riley received new airfields and support facilities. Over 81 construction projects from the Army Air Corps were reassigned to the District in 1940.

In 1941, the District's already impressive military construction schedule was greatly accelerated. From February to May of that year, construction expenditures doubled. Jayhawk and Kansas ordnance facilities were designed and constructed. The District's military construction responsibility was expanded even more throughout Missouri and Kansas, and in 1942 an area office was opened in St. Louis. In total, more than \$900 million was spent on defense construction in the Heartland during the WWII era.

Even the river itself played an important wartime role as the Corps provided navigation support and oversaw the construction of a variety of vessels for use by the Coast Guard. In 1943, however, flooding in the basin turned attention away from the war



Assembling B-25 bombers at North American Aviation, Kansas City, KS, 1942 (Photo courtesy Library of Congress, LC-USW36-238)

Construction at Fort Leonard Wood, MO, 1941





War Department Theatre, Fort Rilev, KS (Photo courtesy U.S. Calvary Museum, Fort Riley, KS)

Discharge barge depositing soil behind levee, in connection with the construction of the Liberty Bend cutoff, 1947





Dam construction workers on the front of the truck are acting as a counterweight for the load of rock in the bed, September 1939



Early construction at Kanopolis Lake

and the Corps was asked to review previous flood control plans. Through the Missouri River Division, they submitted the Pick Plan, which was ultimately merged with the Bureau of Reclamation's Sloan Plan. The resulting Pick-Sloan Plan was approved as part of the Flood Control Act of 1944, and provided for eventual construction of 316 project units, with 112 dams capable of storing 107 million acre-feet of water and generating up to 2.6 million kilowatts of hydroelectric power. It also called for hundreds of miles of levees and flood protection structures.

With the end of the war in 1945, the Nation could once again turn its attention to the homeland. Several key pieces of legislation were passed that would have long lasting effects on the District's civil works. The Rivers and Harbors Act of 1945 allowed for a nine-foot navigation channel downstream from Sioux City. The Missouri Basin Inter-Agency Committee was formed, as directed by Congress, to provide integrated planning and coordination with local interests in water resource development. The Fish and Wildlife Coordination Act required planning to prevent loss of fish and wildlife when building dams and other structures on the Missouri River. The Water Pollution Control Act encouraged creating uniform state laws to control pollution.

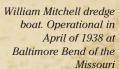


Construction of water treatment plant, Fort Leonard Wood, 1941

Machine shop of William Mitchell



Construction of Kanopolis control tower

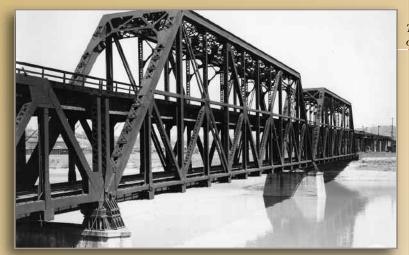




B-25 bombers almost ready for test flight, North American Aviation, Kansas City, KS, 1942 (Photo courtesy Library of Congress, LC-USW36-140)



Canal at Rulo Bend, Rulo, NE, 1938



Truss railroad bridge over Kansas River, 1945



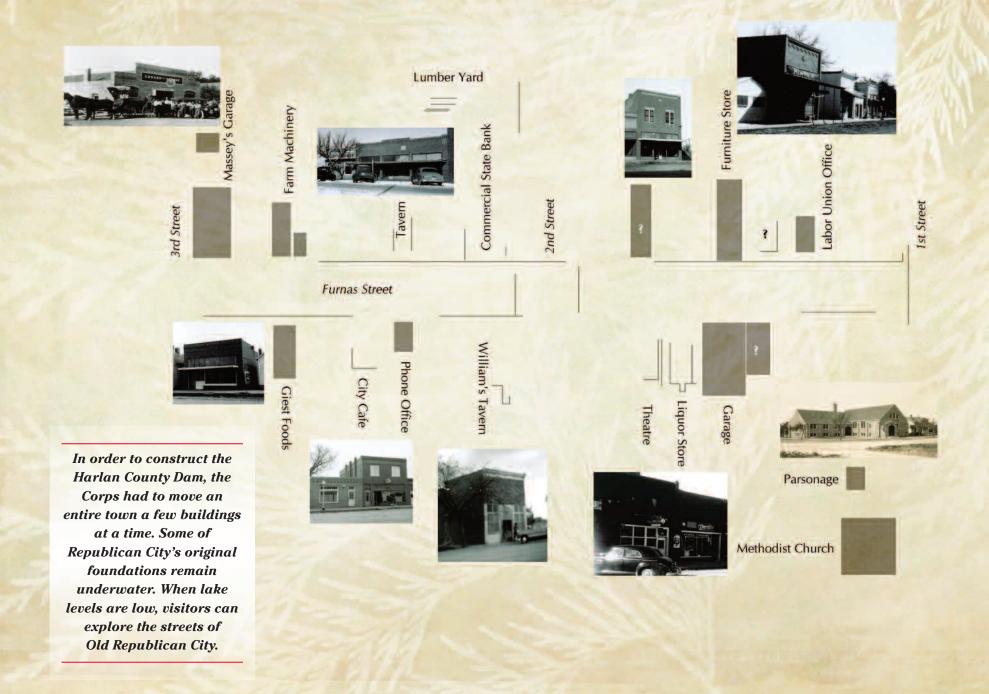
Aerial view of Jayhawk Ordnance Facility





Construction of Patton Hall, Fort Riley, KS (Photo Courtesy: U.S. Cavalry Museum, Fort Riley, KS)









CHAPTER FIVE



MEETING EXPANDED CIVIL AND MILITARY DEMANDS (1948-1957)

As the Kansas City District approached its halfcentury mark, the Corps took on the growing responsibility of serving and protecting the Heartland and Nation. The District saw continued expansion of river basin development as called for in the Flood Control Act of 1944. The first of these authorized dams, Kanopolis, opened in 1948, with completion of Harlan County Dam not far behind in 1952.

Flood protection, motivated by the Great Flood of 1951 and a flood in the Upper Missouri River Basin in 1952, galvanized both rural and urban interests to quickly arrive at a solution to this problem. The District expanded its basin studies and worked with the affected states to develop a coordinated plan addressing all major resources including recreation and wildlife. The subsequent Flood Control Act of 1954 authorized eight big dam and reservoir projects for the Kansas City District: Hillsdale, Melvern, Milford, Perry, and Pomona in Kansas; Stockton and Truman in Missouri; and Rathbun in Iowa.

Photo left: Soldiers help locals with sand bagging, 1951 Flood





1951 Starlight Theater



1955 H&R Block's first office opens



Rosa Parks and Montgomery Bus Boycott



2335

Sputnik launched by

B-47 Stratojet

S. AIR FORCE

Called the "Billion Dollar Flood", the 1951 flood affected 116 cities and towns in Kansas and Missouri. The Kansas City Stockyards were devastated, Rosecrans and Fairfax airports inundated, the barracks at Fort Riley destroyed and 85,000 people were evacuated. Mother Nature wasn't quite finished with the District. The area experienced a serious drought that lasted approximately four years, which demonstrated the need for water storage and resulted in Tuttle Creek's "dry dam" restriction being removed.

Construction began on Tuttle Creek in 1952. In that same year Harlan County Dam opened. In order to build the Harlan County Dam, Corps engineers had to move an entire town - Republican City - a few buildings at a time. Some of the town's original foundations still remain under water. When lake levels are low, visitors can explore the streets of the former town.

Following the end of WWII, the District's military mission largely ended. However, with the onset of the Korean War the military mission was again revitalized. The Cold War era prompted the United States to keep the military in a high state of readiness to protect the Nation from attack. From this



Devastating aftermath of 1951 Flood

Horses trapped by flood waters, 1951





Rescuing stranded flood victims, 1951

Tieville Dredging, 1955





Opening of pilot canal, Jackass Bend, 1957



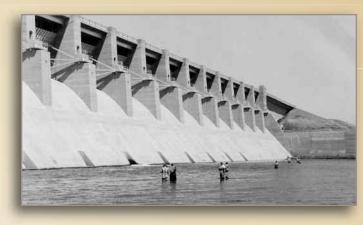
Flood waters reach rooflines and strand homeowners, 1951

threat, military readiness was given top priority. In order to maintain military readiness, the military needed infrastructure for troop training and air base construction away from major cities to limit collateral damage from a nuclear attack.

In 1951, the District was officially assigned a military mission with two major types of engineering tasks: modernizing and expanding facilities at five Air Force bases and three Army posts, and reopening ordnance facilities throughout the Heartland.

The air bases needed extensive renovation, new construction, and retrofitting of runways to accommodate the larger new bombers, like the B-36, B-47 and B-52.

Fort Riley was virtually transformed with a new hospital, regimental headquarters, gymnasium, chapel, family housing and barracks. Fort Leavenworth also received a new hospital, officers quarters and a new facility for the Command and General Staff College. Fort Leonard Wood was designated as a US Army Training Center-Engineer, and received new classrooms, barracks, family units and recreational facilities.



Visitors flock to the public fishing area at Harlan County Dam

Newly completed Kanopolis Lake



Tuttle Creek Dam under construction

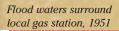






Pomme de Terre groundbreaking celebration, 1957

Soldiers from Camp Carson, CO lend a hand during flooding





Personnel housing, McConnell Air Force Base

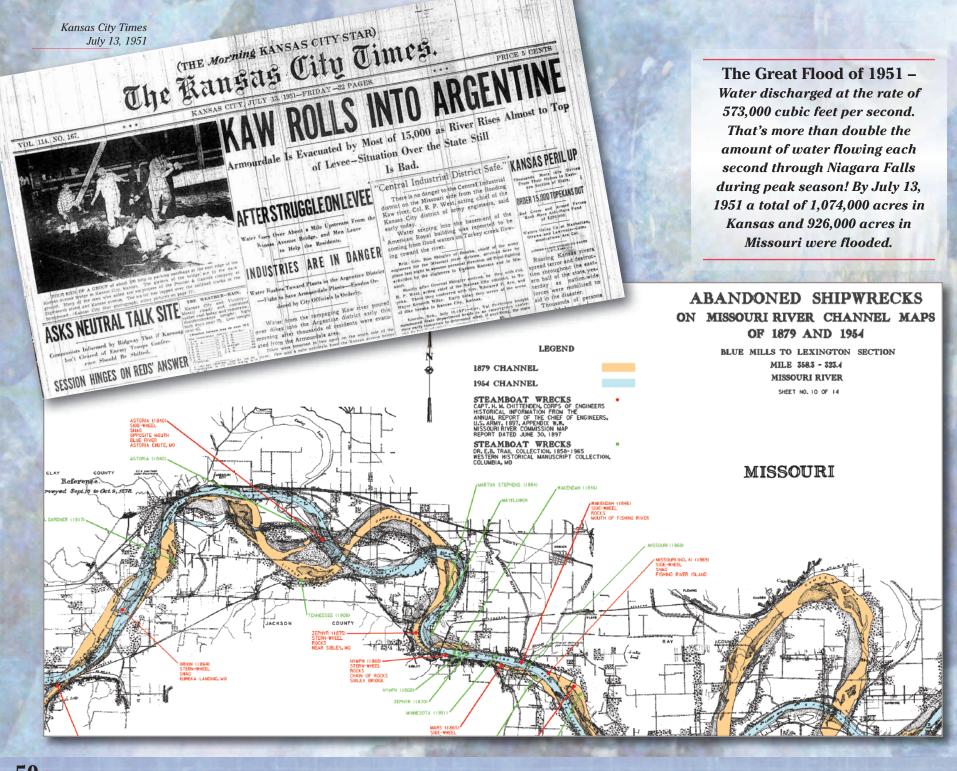


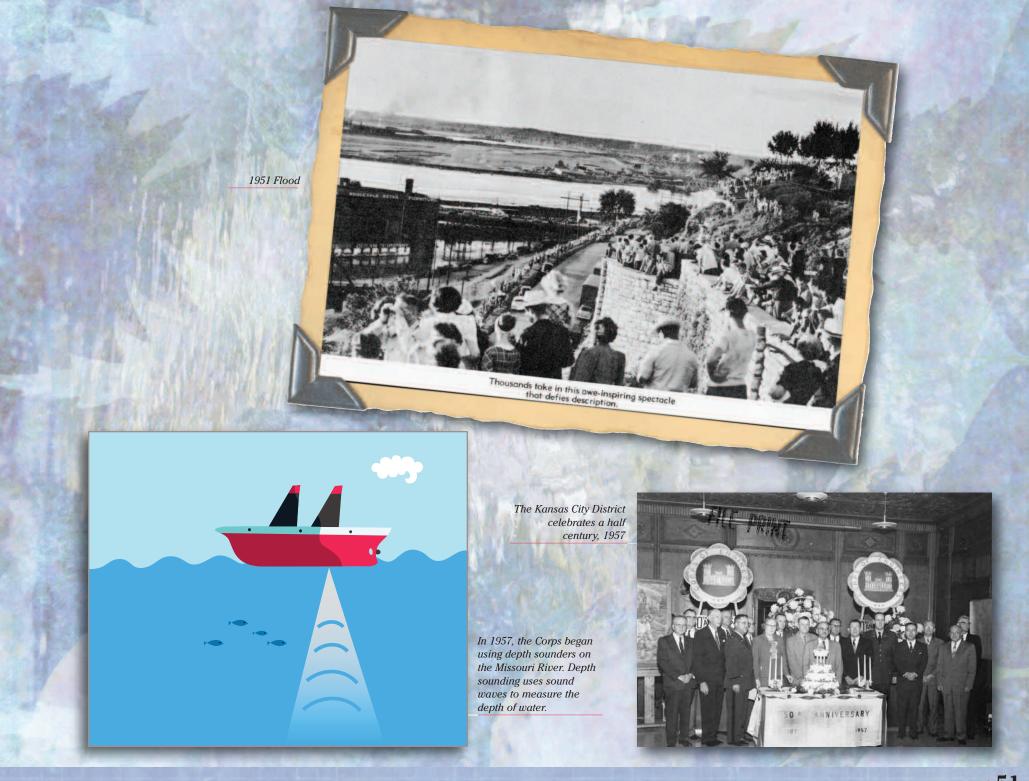
B-52 Bomber Takeoff



Irwin Hospital, Fort Riley









CHAPTER SIX



DAM BUILDING IN THE COLD WAR ERA (1958-1967)

Urgency! The Kansas City District's sixth decade can best be described with that one word. Flood control and military construction projects grew at a seemingly impossible pace which pushed District engineers and contractors to their limits. Despite the immense challenges of this era, the District rose to the occasion with steadfast determination, ingenuity and flexibility.

Flood control measures called for in the Pick-Sloan Plan were being engineered and constructed at great speed. In fact, the District started eight new dam projects in this decade alone – almost half of the 18 total dams to be constructed. The devastation of the 1951 flood was still fresh in the minds of the Corps and the public. Due to this devastation, there was continuing pressure to provide protection from future catastrophic floods as soon as possible.

The decade also found the Nation in a game of cat and mouse with the Soviet Union. Soviet military and missile technology was rapidly advancing. From this threat, President Eisenhower was determined to keep attacks at bay by countering each advancement in enemy military hardware with new and more sophisticated U.S. technology. This strategy of "deterrence" defined the Cold War Era. It also placed an incredible challenge before the Corps to provide the infrastructure necessary to support and maintain the constantly evolving military technology.

Photo left: Flooding of Pottawatomie Creek and Marais des Cygnes River, Osawatomie, KS, 1961



1958 Elvis Presley joins Army



1959 Classic "Kansas City" tops music charts



1963 MLK "I Have A Dream" / March on Washington



1964 Beatles play at Municipal Stadium



1967 Chiefs in First Super Bowl



Construction of Topeka Atlas missile launch site, 1959

New legislation further promoted the District to engage local interests in water resource development and broaden the scope and uses for dam projects. The District recognized the importance of these additional uses, such as recreation, in providing revenue for towns and states. In the Water Supply Act of 1958, Congress authorized states and local entities to ask for additional water storage in federal reservoirs for local use. In 1965, the Federal Water Project Recreation Act defined recreation as a legitimate purpose in planning federal water resources projects.

During the 1960s, eight dam projects were started (Pomona, Wilson, Milford, Stockton, Perry, Rathbun, Truman and Melvern), three of which would be completed in the same decade (Pomona, Milford and Wilson). At the same time, Pomme de Terre and Tuttle Creek were completed. The broadened purposes of dam building were evident in these projects. Recreation was a major aspect of Pomme de Terre's lake and Tuttle Creek provided water storage. Truman Dam was also being constructed with multi-purpose uses: flood control, recreation, hydropower and fish and wildlife conservation.

Near the end of this decade, the Corps was called into service in 1966 when deadly tornadoes roared through Kansas. Following the tornadoes, Governor Avery requested the District's skills and resources for recovery services.



Fishing from the bluffs, 1966

Construction on Stockton Dam, 1964





Visitors enjoy recreation at newly opened Pomona Lake, 1966 Aerial view of construction activity at Fort Riley, 1969





An example of a Minuteman II launch control facility located at Whiteman Air Force Base (U.S. Air Force photo/ Tech Sgt. Samuel A. Park)





Service to the military brought with it the District's most demanding mission to date. President Eisenhower had approved an "emergency" new weapons system: the Intercontinental Ballistic Missile (ICBM). The Corps had the combined challenge of keeping up with the new weaponry advances while building structures fast enough to support them.

Glen Davis, Resident Engineer at the time, recalls, "We had two shifts working...and the only time you knew what day of the week it was is when you went to breakfast and the funny paper was in the rack...I averaged something like 70 hours a week for almost 2 years."

Operational missile bases were built at Forbes, Schilling, McConnell and Whiteman Air Force bases. The District gained invaluable "high-tech" knowledge of these missile silo projects. That experience served the Corps well when it was asked to build a precision instrument lab for the Air Force, and state-of-the-art flight simulation facilities at Forts Leavenworth and Riley.

The District also carried out numerous traditional military construction projects during this time. Fort Leonard Wood was expanded as a staging area. This required construction of administrative buildings, training facilities, barracks and mess halls. Building additions and improvements were made to Forts Riley and Leavenworth as well. In fact, between 1957 and 1961, the District built over 2,660 dependent housing units at all three forts.



Towboat pushes freight, 1964

Curb and gutter construction at Stockton Dam, 1964



Iowa Gov. Harold Hughes digs in at the Rathbun Dam groundbreaking, 1965



Trench inspection during construction at Rathbun Dam, 1965



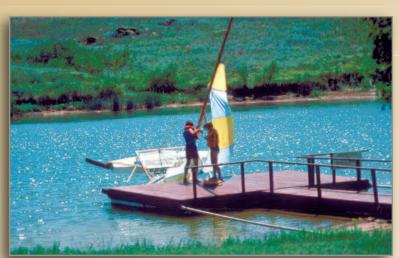
Lakeside camping, 1966



Barracks at Fort Leonard Wood, 1963



Construction of Pomona Dam, 1963



Visitors preparing to windsurf at Kanopolis



Smithville Dam was authorized in 1965

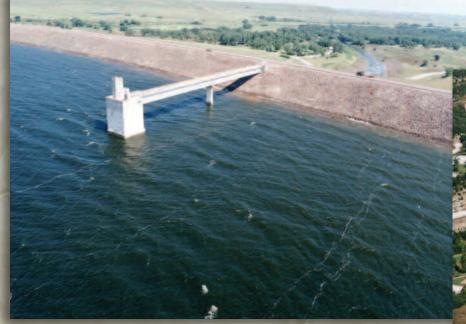




Cross-section of a typical earth-filled dam in the District

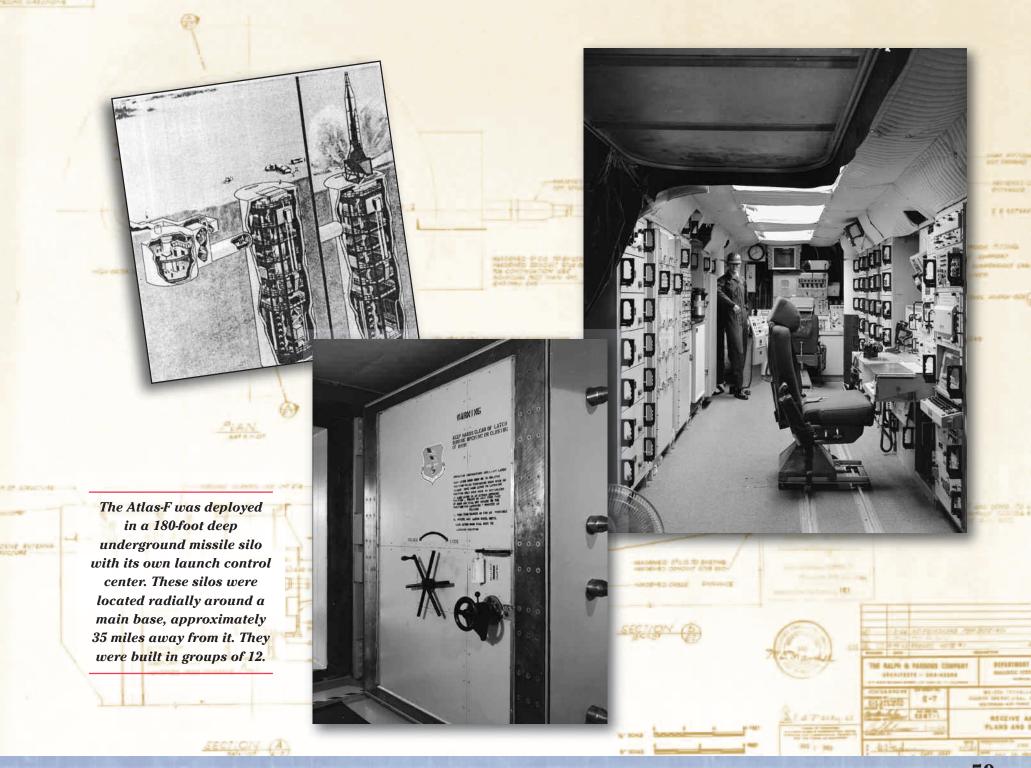


Wilson Dam was completed in 1965



Pomme de Terre Dam was completed in 1961







CHAPTER SEVEN



CHANGES IN POLICY AND PLANNING (1968-1977)

By the early 1970s the District saw evidence that its efforts to permanently "peg down" the Missouri River had been successful. The channel was well over nine feet in most places, and there was less of a need for dredging because the river had become more or less self-scouring. Commerce on the river continued to expand. It was reported that 3.3 million commercial tons were shipped on the river in 1977.

During this time frame, the District's civil works mission faced new public demands and changing values. President Nixon signed the National Environmental Policy Act into law. With this signing, the Corps responded with environmental guidelines for its civil works projects. As the nature of these civil works projects expanded, the Corps had to take on a balanced approach between existing water resource development policies and the new environmental and recreational policies. There was also pressure to add social science into the planning process. The District diversified and added a Planning Division to work in tandem with the Engineering Division.

Photo left: Aerial of Stockton Dam, 1973











Kemper Arena hosts



George Lucas releases "Star Wars

Recreation at Rathbun Lake

Five dams were completed in this decade: Perry, Stockton, Rathbun, Melvern and Smithville. The broader approach to dam building was reflected in some of the features of these new dams. Smithville has a very long shoreline, which is important because it provides habitat for fish and wildlife. Stockton also provides hydroelectric power. Rathbun has 55 square miles of land and water, all managed by the Corps. Although Clinton's dam was essentially completed in 1977, the Corps decided to slowly fill it over three years to improve fishing potential. This represented a determination to focus on the scope of the policies already in place.

A textbook example of the daunting challenge of dealing with conflicting policies in water resource development came in 1972, when the Environmental Defense Fund, (EDF) filed suit to stop construction of the Truman Dam. Among other things, they claimed that the District did not file the environmental impact study required by law. The U.S. District Court ruled that the District had "taken substantial and concrete steps" in preparing the study, even though the dam had been under construction for five years before the law requiring the study was enacted.



Construction of Smithville Dam was completed in 1977

President Nixon speaking at the Rathbun Dam dedication, 1971





Truman Dam visitor center perched atop Kaysinger Bluff

Aerial view of Irwin Army Hospital, Fort Riley, 1969





Inspection at Fort Riley, 1969



Construction at McConnell Air Force Base

The District's Chief of Engineering at the time, Paul Barber, was also an attorney and dedicated several months to working solely on the lawsuit. Barber recalls that the stack of papers the District filed as exhibits in response to the lawsuit was "four and a half feet thick."

As the end of the Vietnam War drew near in 1970, the Department of Defense announced a plan to greatly reduce and eliminate facility and manpower requirements for military missions. By July of 1970, the District's mission had been focused to one of civil works only.

The District's military accomplishments during the previous decades are unparalleled and remain a testament to its service to the Nation. The Kansas City District excelled in a variety of assignments, each with unique challenges, as they kept pace with rapidly evolving defense industry technologies while continuing the ongoing civil works missions. The District's work is a shining example of why the Nation relies on an experienced organization of highly trained, skilled and dedicated personnel who are always in a "ready" position to serve. In 1975, the Kansas City District was reassigned its military program mission, which it has had ever since.



Construction at Melvern Dam, 1973

Floodwaters surround Jefferson City, 1973



Construction at Clinton Lake, 1978

Cleaning up after Brush Creek floods Country Club Plaza, 1977





Gate closure celebration of Stockton Dam and reservoir, December 1969



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Since it began operation in 1969, Perry Lake has prevented over \$4 billion in flood damages. Total cost of construction was just under

\$50 million, recouping its cost nearly 80 times over.

(Standard Mail)



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CHAPTER EIGHT



ENVIRONMENTAL ISSUES AT FOREFRONT (1978-1987)

The Kansas City District's eighth decade saw the District being tasked with growing responsibilities in environmental stewardship. Protecting, preserving, and restoring the environment was a top priority for the Nation. The District showed strong leadership in all these capacities. By 1984, over 282,000 acres of public land were being protected from resource degradation at sixteen different Kansas City District sites.

The District was assigned a military mission once again just before the decade began. At McConnell Air Force Base, the District designed and constructed support facilities for the state-of-the-art B1 stealth bomber, an important aircraft in the Nation's continued efforts in nuclear deterrence. With the recent switch to an all-volunteer armed forces, the Army and Air Force relied on the Corps to make their bases more appealing to potential enlistees, with upgrades to housing and new amenities.

The Nation's continued intense focus on environmental cleanup would keep the District incredibly busy in this and subsequent decades. In 1980 Congress passed the Comprehensive Environmental

Photo left: Restoring wetlands protects fish and wildlife

Response, Compensation and Liability Act (CERCLA), more commonly referred to as the "Super-













1985 Royals win World Series



1986 Challenger explodes fund Act". This act called for cleanup of hazardous waste sites that constituted a threat to public health. The EPA gave the Corps an assignment to assist the EPA nationwide with Superfund projects. The Missouri River Division was designated as the National Design Center for the Superfund Program and the Kansas City District was given authority for Superfund design assistance to the EPA for five of the 10 EPA regions.

Anne M. Gorsuch, EPA administrator at the time, said, "The Corps' field expertise and in-place capabilities throughout the country are just what the EPA needs to carry out certain aspects of the Superfund program." Between 1982 and 1987, the District would supervise over \$48 million in Superfund work – a number that would almost triple by 1988.

In 1984, the District's responsibility in hazardous waste cleanup expanded even further. The Defense Environmental Restoration Program (DERP) was established to identify, investigate and clean up hazardous substances and wastes at both active and Formerly Used Defense Sites (FUDS). Among the numerous responsibilities, the District would find and dispose of unexploded



Cleanup of hazardous materials at Weldon Springs Ordnance

Cleanup and demolition of abandoned buildings at Weldon Springs





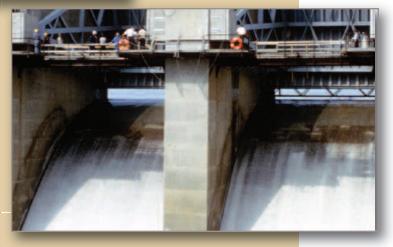
Empty missile silo, Whiteman Air Force Base

Clinton Lake was completed in 1980





Construction of Blue Springs Lake spillway, 1985



Truman Dam spillway

ammunition at ordnance sites and demolish unsafe and unsightly buildings.

This decade saw another important milestone for the District. After 75 years of hard work, the bank stabilization and navigational structures for the Missouri River were now complete. In addition, the effectiveness of the flood control dams was demonstrated when the Osage River flooded in 1986. The District's completed projects prevented an estimated \$244 million in damages to the surrounding area.

Large scale civil works projects continued in this era. Long Branch, Clinton, Hillsdale and Longview were completed, and construction began on Blue Springs.

Additional legislation was passed that would provide further opportunities for the District to work with communities in its jurisdiction. A wide range of environmental and recreational projects were enhanced as a result of this information. The Water Resources Development Act of 1986 changed the non-federal cost sharing requirements and expanded their roles in the planning, funding and management of projects.



Shoring up the levee on the Marais des Cygnes River during the 1983 flood, Osawatomie, KS

Longview Lake construction began in 1979



Construction at Clinton Lake, 1978

Aerial of road relocation, Blue Springs Lake construction, 1982



Blue Springs Lake Dam, 1980s

Aerial view of construction at Longview Lake



Local schoolchildren help Woodsy Owl clean up Truman Dam's recreational areas



Long Branch Lake today. The lake was placed in

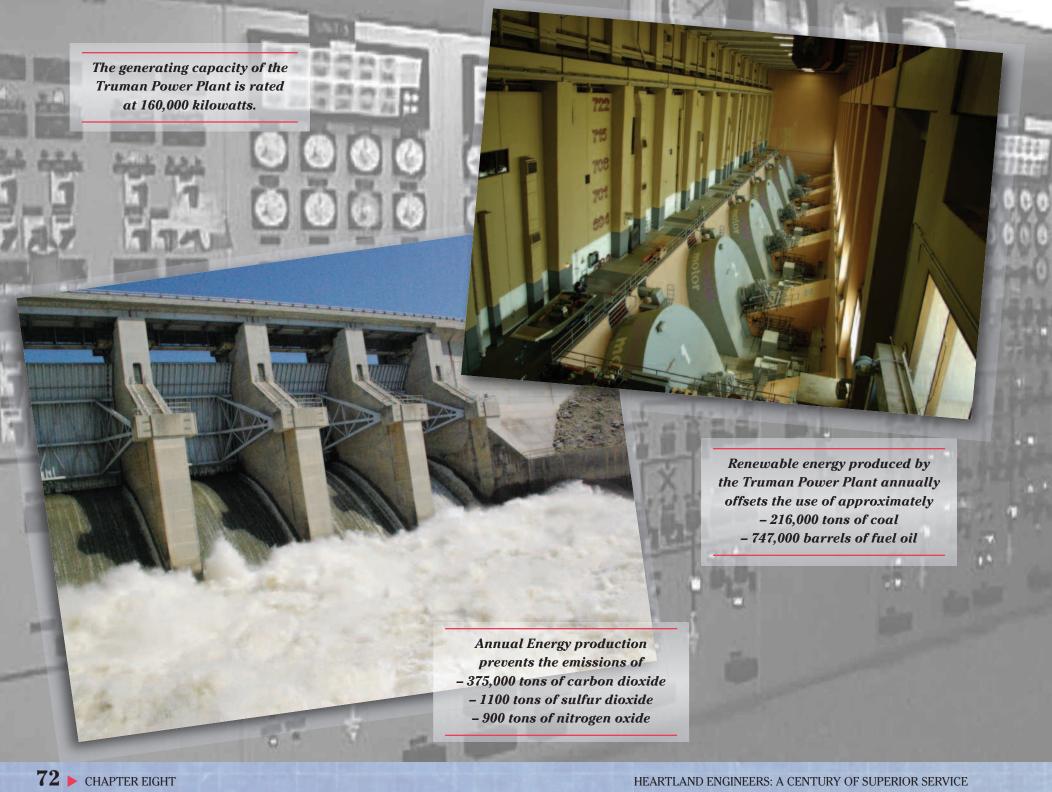


operation in 1980





Current photo of Hillsdale Lake, which was placed in operation in 1981







CHAPTER NINE



CONSERVATION, RESTORATION AND RECREATION (1988-1997)

In the early 1990s the District would provide a great example of the intent of the Water Resources Development Acts of 1986 and 1988 with its Brush Creek Project. The District had been working on designing and building flood control measures in the area – prompted by Brush Creek flooding in 1977 that devastated the affluent Country Club Plaza. At Kansas City's request, the District redesigned the project to include park and recreation features as well as beautification.

Phil Rotert, Chief of the Planning Division at the time, recalls, "there was just a tremendous amount of coordination and learning...particularly of how to design a project other than just a plain concrete channel that could be built, and then to figure out how much of it was going to be paid for by the city". Rotert calls the innovative project "a very worth-while effort."

Another major flood struck the Missouri River
Basin in 1993, and the District once again rose to
meet the challenge. Roy Reed, then Chief of Programs and Project Management recalls, "during the
early part of the flood we had people who were

Photo left: Celebrating the completion of extensions to the Brush Creek project



1991 Desert



Floodwaters threaten businesses in Parkville, MO, 1993

1995 Oklahoma City bombing



1997 Grand Opening American Jazz Museum





voluntarily working 60 to maybe 80 hours a week, sometimes almost 24 hours around the clock."

While the 1993 flood had devastating impacts elsewhere, Kansas City was left relatively unscathed because of the levee improvements and flood control structures the District had provided upstream in the wake of the Great Flood of 1951.

As in the five decades prior, The Kansas City District assisted the military in growth and operational readiness. In 1989, District engineers completed a successful move of the Army's Engineer School from Fort Belvoir in Virginia to Fort Leonard Wood. Future engineers could now boast a new \$60 million state-of-the-art training and education facility. It was the first time in 50 years that all engineer training would take place at the same location.

The following year, legislation was passed that would require even more extensive construction at Fort Leonard Wood. The Base Realignment and Closure Act of 1990 (BRAC) called for the Department of Defense to streamline its operations by closing and realigning certain bases. By 1995, Fort McClellan in Alabama was ordered closed, and the U.S. Army's Military



Floodwaters engulf Southwest Boulevard, Kansas City, 1993

Aerial of Rulo. Nebraska, 1993 flood





Fort Leonard Wood Engineer School

New general instruction building at Fort Leonard Wood





Construction of support facilities at Whiteman Air Force Base, 1993

A KC-135 Stratotanker from the 22nd Air Refueling Wing, McConnell Air Force Base refuels a B-2 Spirit from the 509th Bomb Wing, Whiteman Air Force Base (U.S. Air Force photo by Senior Master Sgt. Rose Reynolds)



Police School and Chemical School would relocate to Fort Leonard Wood. In preparation for the move, the District built specialized training and support facilities and a three-story general instruction facility that was connected to the Engineer School building. The construction cost estimate for these two moves alone was in excess of \$500 million.

The District also provided massive construction support to the Air Force. In the late 1980s the decision was made to station the new B-2 Spirit stealth bomber at Whiteman Air Force Base, Facilities were quickly needed that could accommodate this unique aircraft, and by 1993 the first B-2 touched down at Whiteman. Able to refuel in mid-air, the aircraft is essential in the Nation's support of overseas conflicts.

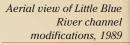


Railroad bridge partly washed out, 1993 flood

Rebuilding Brush Creek



Construction of Blue Springs Lake picnic area, 1985





After working through many design challenges, Truman Dam went online with full reliable power December 1, 1999





CHAPTER TEN



GROWING ROLES, GROWING PARTNERSHIPS (1998-2007)

Throughout the final decade of its first century and to this day, the Kansas City District continues to work collaboratively for river recovery. The Corps and the U.S. Fish and Wildlife Service (USFWS), in partnership with Tribal nations, states, and other agencies, worked together to develop and implement recovery actions under the umbrella of the Missouri River Recovery Program. The Program's foundation stands on four pillars: habitat creation, flow modifications, science and public involvement.

The USFWS developed a Biological Opinion to protect the three threatened and endangered species that depend on the Missouri River: the pallid sturgeon, least tern and piping plover. The District responded by developing a more substantial Missouri River Mitigation Project. This was accomplished by acquiring the land needed to develop fish and wildlife habitat from Sioux City, Iowa, to St. Louis, Mo. The Water Resources Development Act (WRDA) of 1999 increased the number of acres to be acquired through the Mitigation Project to a total of 285,400, almost half of which is located in Kansas and Missouri. In 2004, the District and the USFWS

Photo left: Wetlands provide habitat

for fish and wildlife





2003 Human genome project complete

Smithville Lake



2005 Hurricane Katrina



2007
Power and Light
Entertainment
District opens



announced the completion of construction of more than 1,200 acres of shallow water habitat for the pallid sturgeon. A total of 20,000 acres will be built along the entire length of the Missouri River by 2020.

After more than a decade of work on cleaning up hazardous waste sites, the District had proven itself a leader in this crucial mission. In 1998, the Kansas City District was called on to further assist in the cleanup of Cold War legacy wastes through the U.S. Department of Energy's Formerly Utilized Sites Remedial Action Program (FUSRAP). The program was created by Congress to remediate soils and buildings at multiple sites contaminated with radiological materials left over from their use in nuclear weapon production.

The District continued its cleanup responsibilities at other hazardous sites through the Heartland. Projects for the Kansas City District's Hazardous, Toxic and Radiological Waste Program (HTRW) for fiscal year 2000 were valued at \$183 million, with another \$15 million for its Defense Environmental Restoration Program (DERP) mission. The most significant DERP customer was Fort Riley, which was awarded the annual President's National Environmental Excellence Award in 2000. In the same year, the District



Site cleanup at Blaine Naval Ammunition Depot, Hastings, NE

FUDS work at Blaine continues into the night





FUSRAP site remediation

Entrance to U.S. Disciplinary Barracks, Fort Leavenworth





Aerial view of USDB, Fort Leavenworth



U.S. Pentagon, Washington, D.C., September 11, 2001

was also recognized with the Presidential
Design Award for the work performed at the
Blaine Naval Ammunition Depot FUDS site.

Amendments to BRAC brought additional military construction needs for Forbes Field Air Guard Station, McConnell Air Force Base, Fort Riley and Fort Leavenworth. The District also designed and built a new state-of-the-art, 515-bed U.S. Disciplinary Barracks (USDB) at Fort Leavenworth. The USDB is the only maximum-security correctional facility in the Department of Defense. It is the oldest penal institution in continuous operation in the federal system.

The District also provided support at home and overseas as Fort Riley began training Military Transition Teams with the mission to train, mentor and advise Iraqi and Afghani security forces. The Afghanistan Engineering District (AED) was established in Kabul, Afghanistan and the Gulf Region Division was established with three Districts (Tikrit, Tallil, and Bagdhad).

On the home front, District personnel quickly responded with relief efforts for natural disasters such as hurricanes Katrina, Floyd, Wilma and Ike, as well as the 9/11 terrorist attacks on the World Trade Center in New York City in 2001.



The Kansas City District celebrated its 100th anniversary in 2007

Eagle Bluffs Mitigation Site





Using PONAR to grab samples of lake bottom material for analysis. The sampler is named after Great Lakes scientists, Charles E. Powers, Robert A. Ogle, Jr., Vincent E. Noble, John C. Ayers, and Andrew Robertson

Kansas City District provides personnel in support of the Global War on Terror





Doomed seedlings along the banks

The District is responsible for maintaining the trails in recreational areas





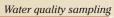
Another District



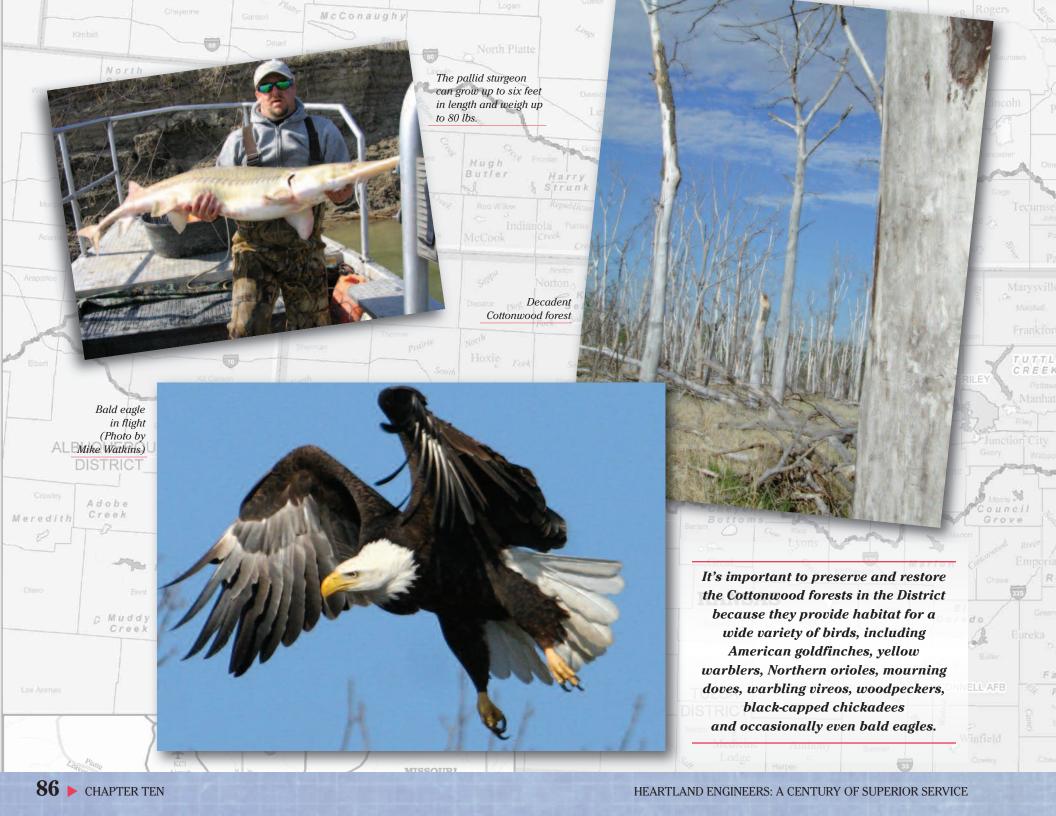
responsibility is performing prescribed burns



efforts, New York City, September 11, 2001











CONCLUSION



CHANGING TODAY TO MEET TOMORROW'S CHALLENGES

For over a century the U.S. Army Corps of Engineers Kansas City District has exemplified service to the Nation. The mission and values of the District are evident in every project, no matter the size. The men and women of the District continually prove themselves to be relevant, ready, responsible and reliable.

With its 18 dams and lakes, the Kansas City
District provides the Heartland with water, power
and recreation, while protecting families, farmland
and businesses from flooding. As innovative and
responsible stewards of the environment, the
District works collaboratively with other organizations and agencies to restore and preserve fish and
wildlife habitat along the waterways and wetlands
within its jurisdiction. Environmental management
and restoration also remains a top priority at former
and current military sites. The District can quickly
mobilize in times of natural disaster, offering relief
and emergency management services.

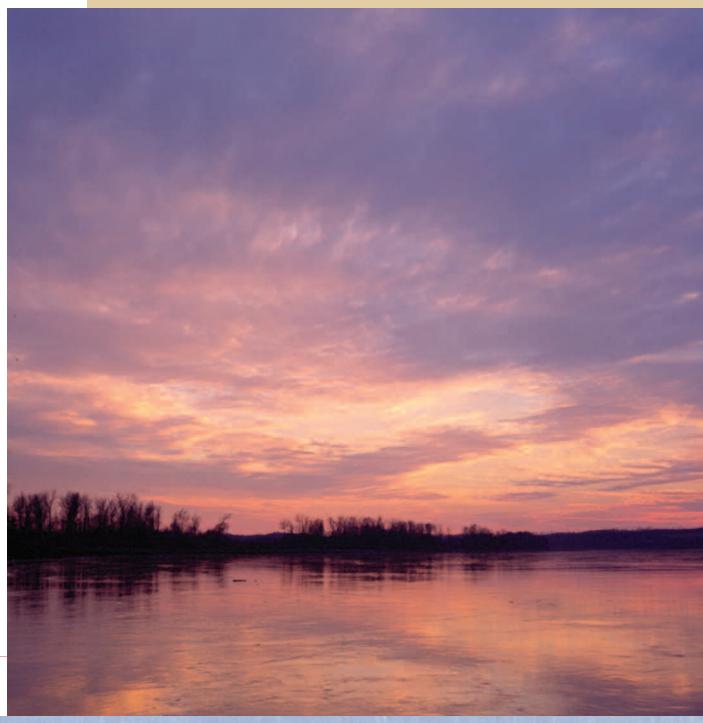


A lone fisherman enjoys a peaceful sunset at a District lake

Photo left: Lewis and Clark Command and General Staff College, Fort Leavenworth

The Corps' historical strengths in program management, engineering design, research development and construction will prove invaluable as the District readies to meet new challenges and opportunities to strengthen the Nation's security, rebuild and rehabilitate the Nation's infrastructure and reduce risks from disasters.

The Kansas City District will continue to proudly serve the Armed Forces and the Nation in times of peace and war now and in the future.

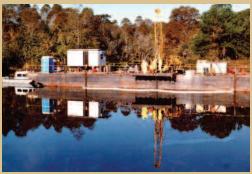


Early spring sunset on the Missouri River near Hartsburg









Sites, events and projects throughout the Kansas City District today











(Clockwise from top left)

2008 Leadership Development Program Retreat, Ft. Leonard Wood, MO

KCD park ranger on patrol at Pomme De Terre

KCD park ranger tagging an eagle

KCD personnel confer on construction project







(Clockwise from top left)

Col. Wilson assumes command from Col. Rossi

KCD park ranger conducts water sampling









KANSAS CITY DISTRICT ARMY CORPS OF ENGINEERS PAST COMMANDERS





MAJOR EDWARD H. SCHULZ 1907-1912



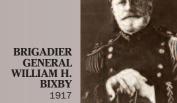
LT. COLONEL HERBERT DEAKYNE 1912-1915

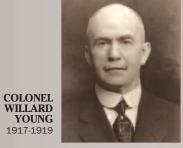


COLONEL C. Mc D. TOWNSEND 1916



LT. COLONEL J. F. McINDOE 1916-1917





MAJOR R.T. WARD 1920



MAJOR GILBERT VAN B. WILKES 1920-1924





MAJOR CLEVELAND C. GEE 1924-1927



MAJOR GORDON R. YOUNG 1927-1930



CAPTAIN THEODORE WYMAN JR. 1930-1934



CAPTAIN O.E. WALSH 1934-35



LT. COLONEL P.A. HODGSON 1936-1938



COLONEL A.M. NEILSON 1938-1942



COLONEL FRANCIS H. OXX 1942





KANSAS CITY DISTRICT ARMY CORPS OF ENGINEERS PAST COMMANDERS



COLONEL R. SELEE 1942-1943



COLONEL R.E.M. DES **ISLETS** 1943-1944



LT. COLONEL S.G. NEFF 1944-1945



COLONEL W.E. POTTER 1945-1948





COLONEL KEITH R. **BARNEY** 1953-1955



COLONEL EARNEST C. **ADAMS** 1955-1957





COLONEL LAWRENCE E. **LAURION** 1957-1960



COLONEL

1950-1953

L.J. LINCOLN

COLONEL ANDREW P. ROLLINS JR. 1960-1963



COLONEL MILES L. WACHENDORF 1963-1966



COLONEL WILLIAM G. **KRATZ** 1966-1969



COLONEL WILLIAM R. **NEEDHAM** 1971-1975



COLONEL RICHARD L. **CURL** 1975-1978



COLONEL WALTER C. **BELL** 1978-1981



KANSAS CITY DISTRICT ARMY CORPS OF ENGINEERS PAST COMMANDERS





COLONEL GURNIE C. **GUNTER** 1981-1984



COLONEL ROBERT M. AMRINE 1984-1987



COLONEL JOHN H. ATKINSON 1987-1990



COLONEL WILBUR H. BOUTIN JR. 1990-1993







COLONEL GEORGE H. HAZEL 1998-2001







COLONEL MICHAEL A. ROSSI 2003-2007



COLONEL ROGER A. WILSON, JR. 2007-2010







GEORGE C. HAYDON PRINCIPAL ENGINEER 1909 to 1933



ALBERT O. ROWSE CIVIL ENGINEER 1911 to 1930



LAFE S. HOWARD SUPERINTENDENT GASCONADE BOATYARD 1913 to 1958



DELBERT A. "POP" GIBBS ASSOCIATE CIVIL ENGINEEER 1916 to 1946





HARRY C. POOLE JUNIOR ACCOUNTANT 1924-1934



ERNEST F.
"BUD"
BROWNING
CONSTRUCTION
SUPERINTENDENT
1928 to 1959



BURNEY V. REANY SUPERVISORY CONSTRUCTION ENGINEER 1928 to 1962









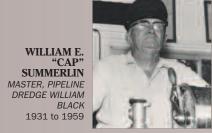
DONALD H.
McCOSKEY
CIVIL ENGINEER /
CHIEF,
ENGINEERING
DIVISION
1929 to 1950



CECIL R. "OLD GRIFF" GRIFFITH MARINE INFORMATION SPECIALIST 1929 to 1965



MARSHALL E. HOY FINANCIAL MANAGER 1929 to 1972



HAZEL L. LUCKOW MAIL & FILE SUPERVISOR 1933 to 1969



WALTER N. MOORE SUPERVISORY MECHANICAL ENGINEER / CHIEF-MECHANICAL & ELECTRICAL 1935 to 1962



GUINN W. BRONSON ATTORNEY-ADVISOR 1935 to 1970







LOUIS G. FEIL SUPERVISORY CIVIL ENGINEER / CHIEF, ENGINEERING DIVISION 1939 to 1966



MORTIMER M.
"MIKE"
TURNER, JR.
SUPERVISORY
CIVIL ENGINEER /
CHIEF,
ENGINEERING
DIVISION
1939 to 1971



JOHN M. McCANN SUPERVISORY CIVIL ENGINEER/CHIEF, LOCAL PROTECTION SECTION 1943 to 1965



REESE M. MILLER LABOR RELATIONS OFFICER 1931 to 1968





WILLIAM N. (BILL) DOYLE ADMINISTRATIVE OFFICER 1937 to 1973



DANIEL A.
SHIEL
SUPERVISORY
ATTORNEYADVISOR /
DISTRICT
COUNSEL
1939 to 1974



GLADYS M.
DAVIES
SECRETARY
1925 to 1973





DONALD D. POOLE SUPERVISORY NATURAL RESOURCES MANAGER 1948 to 1976



WALTER R. WYATT SUPERVISORY CIVIL ENGINEER 1936 to 1976



MYRL E. MADDOX LABOR RELATIONS OFFICER 1937 to 1974



JOHN W. MANNING CHIEF, DESIGN BRANCH 1938 to 1976



ROYAL T. TATE MASTER, PIPELINE DREDGE 1930 to 1972



JACOB F.
REDLINGER
CHIEF,
FOUNDATIONS AND
MATERIALS
BRANCH
1957 to 1969



ROBERT E. HURT SUPERVISORY CONSTRUCTION REPRESENTATIVE 1942 to 1973







DONALD L. FRITTS ASSISTANT CHIEF ENGINEERING DIVISION 1954 to 1984



DENNIS H. BROWN SUPERVISORY ELECTRONICS TECHNICIAN 1942 to 1977



WILLIAM H. FRAZIER PARK MANAGER 1952 to 1973



BERNARD E. (GENE) UPSCHULTE CHIEF, REAL ESTATE DIVISION 1973 to 1985





THOMAS D.
BURKE
SUPERVISORY
CIVIL ENGINEER
1960 to 1991



PHILIP L.
ROTERT
CHIEF,
PLANNING
DIVISION
1959 to 1991



BARBARA J. LEWIS INFORMATION SUPPORT MANAGER 1956 to 1992





JEANNE M. PARKER ADMINISTRATIVE OFFICER 1942 to 1990



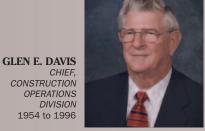
PAUL D. BARBER CHIEF, ENGINEERING DIVISION 1957 to 1992



JOAN R. CHAPMAN CONTRACTING DIVISION 1962 to 1994



JOHN P. ELMORE CHIEF, OPERATIONS DIVISION 1962 to 1987



WILLIAM M.
WEAR
CHIEF,
AUDIOVISUAL
SERVICES
SECTION
1959 to 1994



JOHN E. MOYLAN CHIEF, GEOTECHNICAL BRANCH 1958 to 1991



CLYDE (BUCK) ROWLAND VISUAL INFORMATION SPECIALIST 1960 to 1994







ROY D. REED CHIEF, DEPUTY DISTRICT ENGINEER FOR PROJECT MANAGEMENT AND CHIEF OF PROGRAMS & PROJECT MANAGEMENT 1960 to 1996



WOODS C. HIGHT EQUAL EMPLOYMENT OPPORTUNITY OFFICER 1951 to 1977



WAYNE H. COOK PROGRAMS AND PROJECT MANAGEMENT DIVISION 1959 to 1996



HELEN V. BERETTA CHIEF, TECHNICAL SERVICES BRANCH 1957 to 1997





DONALD N.
JOHNSON
CHIEF,
SPECIFICATIONS
SECTION
1959 to 1997



BYRON BIRCHER CHIEF, DESIGN BRANCH 1960 to 1998



LANA J.
COFFMAN
PROGRAM
ANALYST,
OPERATIONS
DIVISION
1963 to 2001





WESLEY G. ADAMS DEPUTY CHIEF, OPERATIONS DIVISION, CHIEF, TECHNICAL SUPPORT BRANCH 1969 to 2002



JAMES O. EDMONDS CIVIL ENGINEERING TECHNICIAN 1960 to 1992



JANIE CHOICE CAVITT DEPUTY DISTRICT COUNSEL 1978 to 2003



MEL JEWETT CHIEF, REGULATORY BRANCH OPERATIONS DIVISION 1951 to 1995





DAVID L. DAY CHIEF, HTRW BRANCH, CHIEF, CIVIL WORKS BRANCH 1969 to 2005



LAWRENCE M.
CAVIN
CHIEF,
REGULATORY
BRANCH, CHIEF,
ENFORCEMENT
SECTION
1973 to 2002



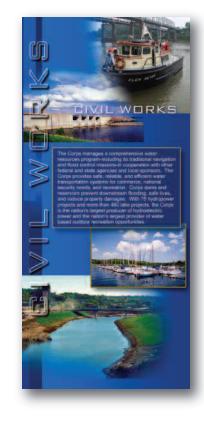


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KANSAS CITY DISTRICT RESERVOIR PROJECTS

Lake Project	Year Authorized	Year Impounded	
IOWA			
Rathbun	1954	1969	
KANSAS			
Clinton	1962	1977	
Hillsdale	1954	1982	
Kanopolis	1938	1948	
Melvern	1954	1975	
Milford	1954	1967	
Perry	1954	1969	
Pomona	1954	1965	
Tuttle Creek	1938	1959	
Wilson	1944	1964	
MISSOURI			
Blue Springs	1968	1988	
Harry S. Truman	1954	1979	
Long Branch	1965	1978	
Longview	1968	1985	
Pomme de Terre	1938	1961	
Smithville	1965	1979	
Stockton	1954	1969	
NEBRASKA			
Harlan County	1938	1952	



The project lists included on the appendices are the most up-to-date information available at time of publication. The information listed is correct to the best of the company's knowledge.

KANSAS CITY DISTRICT LOCAL PROTECTION PROJECTS



FLOOD CONTROL PROJECT

LOCATION

Significant Flood Works Features LV: Levee, CH: Channel, FW: Floodwall, IW: IWall, PP: Pump Plant, RG: Rolling Gate, GCS: Grade Control

MISSOURI RIVER LEVEE SYSTEM

R 512-513 Kimsey-Holly R-500 L-497 L-488 R-482 Mo-Mill Creek: LV R 471-460

L-455 L 448-443 R-440 L-408 L-400 Liberty Bend

Liberty Bend R-35I, Section 1 R-35I, Section II

L-246 Lower Chariton New Haven

KANSAS CITY UNITS

Birmingham NKC,DTA East Bottoms CID Missouri NKC, Lower Section Argentine Armourdale CID Kansas Upper Fairfax

TOPEKA UNITS

L-385

Soldier Creek North Topeka Levee Waterworks Auburndale South Topeka Levee Oakland Drainage District #7
CannonDD
Iowa Point DD #4
Forest City, MO
Holt County DD #7
Doniphan-Burr Oak DD #3
Amazonia I D

Elwood-Gladden DD South St. Joseph DD Halls Levee District DD #15-45

Farley-Beerly DD Waldron LD

Highway 291 MO Corps Mnt

Atherton LD, MO

Atherton-Blue Mills LD, MO Brunswick-Dalton DD, MO Lower Chariton DD, MO New Haven DD, MO

Birmingham DD City of Kansas City City of Kansas City

City of Kansas City NKCLD Kaw Valley DD

Kaw Valley DD Kaw Valley DD Kaw Valley DD Fairfax DD City of Riverside

North Topeka DD North Topeka DD City of Topeka, KS City of Topeka City of Topeka City of Topeka MO-Nemaha-KS: LV/RW Kimsey-Holly: LV/PP

MO: LV

MO-Tieback: LV/PP MO-Mill Creek: LV

MO: LV

MO-Mace-Dillon: LV / PP MO-Peter's Crk: LV / RW MO-Contrary Crk: LV/PP/RW

MO-Contrary: LV

MO- Independence Crk: LV/PP

MO-Platte-Bee Crk: LV MO-Platte: LV/RW

MO: LV

MO - Little Blue: LV Little Blue: LV/CH

MO-Grand-Chariton: LV/RW MO-Lower Chariton - Chariton: LV

MO: LV

MO-Shoal: LV/PP/RG MO: LV/FW/PP

MO - Blue: LV/FW/PP/RW

MO: FW/PP

MO-Rock Crk: LV/PP/RW?

KS: LV/FWIPP
KS: LV/FW/PP/RW
KS-MO: LV/FW/PP/RW
MO: LV/FW/PP/RW
MO: LV/PP/RG

Soldier Creek: LV/CH KS: LV/CH/PP KS: LV/FW/RW KS: LV/PP/RW KS: LV/FW/PP/RW

KS-Shunganunga: LV/FW/CH/PP/RW



KANSAS CITY DISTRICT LOCAL PROTECTION PROJECTS

FLOOD CONTROL PROJECT

LOCATION

Significant Flood Works Features LV: Levee, CH: Channel, FW: Floodwall, IW: IWall, PP: Pump Plant, RG: Rolling Gate,

GCS: Grade Control

NON-MISSOURI RIVER PROJECTS

Abilene Atchison

Bannister Federal Complex

Barnard Levee Bartley Levee

Bedford

Blue River Channel Brush Creek Channel Chariton Shoal Creek Chariton Macon-Adair Chariton Reinhardt Ranch

Clyde Levee
Fairbury Levee
Frankfort Levee
Gypsum Levee
Indianola Levee
Lawrence Levee
Little Blue River
Manhattan
Marysville Levee
Osawatomie

Ottawa Salina Seward Stranger Creek Stonehouse Creek

MILITARY INSTALLATIONS

Sherman Airfield Funston Unit Marshall Field Unit Forsyth Unit Lake City Levee City of Abilene, KS City of Atchison, KS

GSA

City of Barnard, KS City of Barkley, NE City of Bedford, IA City of Kansas City, MO City of Kansas City, MO Shoal Creek DD

Shoal Creek DD
Chariton River DD
Worthington DD
City of Clyde, KS
City of Fairbury, NE
City of Frankfort, KS
City of Gypsum, KS
City of Indianola, NE
City of Lawrence, KS

Jackson Co. MO Parks & Rec. City of Manhattan, KS

Marysville, KS

City of Osawatomie, KS City of Ottawa, KS City of Salina, KS City of Seward, NE

Big Stranger Creek DD, KS Stonehouse Creek DD # I, KS

Ft. Leavenworth DPW, KS Ft. Riley DPW, KS Ft. Riley DPW, KS Ft. Riley DPW, KS

Lake City Army Ammunition Plant, MO

Mud Creek/CH Conduit/CH

Blue River-Indian Crk: LV/FW/IW/RG

Solomon-Rattlesnake: LV Dry Creek: LV/CH

North 101 River: CH/GCS Blue River: FW/CH/GCS

Brush Creek: CH Shoal Creek: CH (2 mi) Chariton: CH (17 mi)

Chariton: CH
Elk Creek: LV/CH
Little Blue: LV
Black Vermillion: LV
Gypsum Creek: LV/CH

Republican: LV

KS-Mud Creek: LV/CH/PP

Little Blue: CH

KS - Blue River: LV/PP/RW

Republican

Marais des Cygnes & Pottawatomie: LV/PP Marais des Cygnes: LV/FW/PP/RG Smoky Hill, Dry, Mulberry: RW/LV/PP

Big Blue: LV/PP Stranger: CH Stonehouse: LV/CH

MO: LV/PP KS: LV KS: LV Republican: LV Little Blue: LV/CH

KANSAS CITY DISTRICT BENDS ON THE MISSOURI RIVER



LOCATION	Begins	Ends	LOCATION	Begins	Ends
Amazon Bend	0	3.4	St. Aubert Bend	122.3	125
Cora Island Bend	3.4	6	Isbell Bends	125	128.7
Bellefontaine Bend	6	9.2	Osage River Bend	128.7	130.2
Brickhouse Bend	9.2	11	Cote Sans Dessein Bend	130.2	132.8
Pelican Bend	11	16.7	Rising Creek Bends	132.8	142
Mullanphy Bend	16.7	21.9	Jefferson City Reach	142	145.9
Cui De Sac Bend	21.9	25.3	Murrays Bend	145.9	149.8
St. Charles Bends	25.3	28.2	Stanley Bend	149.8	151.8
Creve Coeur Bend	28.2	31.9	Burlington Bend	151.8	155.2
Springhouse Bend	31.9	33.9	Marion Bend	155.2	158.7
Howard Bend	33.9	37.7	Eureka Bend	158.7	162.2
Bonhomme Bend	37.7	40.7	Sandy Hook Bend	162.2	166.8
Weldon Springs Bend	40.7	43.7	Providence Bend	166.8	171.3
Monarch Bend	43.7	45.5	PlowBoy Bend	171.3	174.5
Doziers Bend	45.5	48.6	Lupus Bend	174.5	176.6
Centaur Bends	48.6	51.2	McBaine Bend	176.6	178.3
St. Albans Bend	51.2	54.4	Searcys Bend	178.3	180.2
Augusta Bend	54.4	56.7	Rocheport Bends	180.2	187.2
Hinkles Bend	56.7	60.6	Diana Bends	187.2	192.1
Boles Bend	60.6	64.8	Franklin Island Reach	192.1	193.8
South Point Bend	64.8	67	Franklin Bend	193.8	197
Washington Bend	67	69.6	Boonville Bends	197	201.2
Marthasville Bend	69.6	74.6	Lamine River Bend	201.2	203.6
Dundee Bends	74.6	78.2	Slaughterhouse Bend	203.6	205.8
New Haven Bends	78.2	82.7	Robinson Bends	205.8	208.9
Pinckney Bend	82.7	85.3	Arrow Rock Bend	208.9	211.2
Berheimer Bends	85.3	89.7	Salt Creek Bend	211.2	213.8
Berger Bend	89.7	91.8	Saline City Bend	213.8	217.5
Bates Island Bend	91.8	93.9	Euphrase Bend	217.5	220
Hermann Bend	93.9	97.9	Fish Creek Bend	220	222.3
McGirks Island Reach	97.9	103.4	Glasgow Bend	222.3	228.2
Bluffton Bend	101.8	110.2	Cambridge Bend	228.2	232.2
Gasconade River Bend	103.4	105.1	Wilhoite Bend	232.2	234.3
Straubs Bends	105.1	107.8	Gilliam Bend	234.3	237
Morrison Bend	110.2	112.6	Little Missouri Bend	237	239.5
Portland Bend	112.6	116	Bushwacker Bend	239.5	246
Chamois Bend	116	118.4	Grand River Bend	246	250.2
Auxvasse Bends	118.4	122.3	Brunswick Bend	250.2	253.1



KANSAS CITY DISTRICT BENDS ON THE MISSOURI RIVER

LOCATION	Begins	Ends	LOCATION	Begins	Ends
DeWitt Bend	253.1	257.2	Parkville Bend	375.2	378.3
Miami Bend, Lower	257.2	259.8	Pomeroy Bend	378.3	383
Miami Bend, Middle	259.8	261.2	Weavers Bend	383	385.1
Miami Bend, Upper	261.2	263.4	Pope Bend	385.1	388.4
Thomas Bend	263.4	265.8	Delaware Bend	388.4	392.6
Teteseau Bend	265	266.9	Leavenworth Bend	392.6	396.7
Prunty Bend	266.9	271.8	Leavenworth Reach	396.7	398.4
Malta Bends	271.8	275.4	Fort Bend	398.4	400.2
Tamerlane Bend	275.4	279.7	Weston Bend	400.2	403.9
Hills Bend	279.7	282.1	Kickapoo Bend	403.9	406.9
Cranberry Bend	282.1	284.4	latan Bend, Lower	406.9	408.3
Bakers Bend	284.4	289.9	latan Bend, Middle	408.3	409.7
Waverly Bend	289.9	296.4	latan Bend, Upper	409.7	412.5
Moberly Bend	296.4	299.5	Oak Mills Bend	412.5	415.8
Hodge Bend	299.5	301.2	Bean Lake Bend	415.8	417.9
Baltimore Bend	301.2	304.4	Atchison Bend	417.9	425.1
Berlin Bend	304.4	306.9	Rushville Bend	425.1	428.8
Tabo Bend	306.9	309.2	Doniphan Bend	428.8	431.4
Sheepnose Bend	309.2	311.2	Geary Bends	431.4	435
Lexington Bend	311.2	317.7	Kenmoor Bend	435	438.6
Bootlegger Bend	317.7	319.4	Palermo Bend	438.6	442.6
Sni Bends	319.4	323.5	St. Joseph Bend	442.6	449.5
Camden Bend	323.5	326.8	Bon Ton Bend	449.5	451.8
Napoleon Bend	326.8	332.1	Amazonia Bend	451.8	454.8
Fishing River Bend	332.1	335	Burr Oak Bend	454.8	458.9
Sibley Bend	335	336.9	Mill Creek Bend	458.9	462.9
Jackass Bend	336.9	339	Dallas Bends	462.9	466.9
Little Blue Bend	339	340.5	Charleston Bend	466.9	468.9
Cooley Lake Bend	340.5	342.4	Mt. Vernon Bends	468.9	472.5
Missouri City Bends	342.4	346.5	Forbes Bends	472.5	477.6
Jacksons Bend	346.5	351.2	Wolf Creek Bend	477.6	480.5
_iberty Bend	351.2	353.9	Tarkio Bend	480.5	483.2
Big Blue River	353.9	358.6	Iowa Point Bend	483.2	485.7
Randolph Bend	358.6	363.8	White Cloud Bends	485.7	489.4
Kansas City Reach	363.8	366.3	Squaw Bend	489.4	491.1
Kansas River Bend	366.3	368.4	Nemaha Bends	491.1	494.1
Kaw Bend	368.4	372.1	Rulo Bend	494.1	498.4
Quindaro Bend	372.1	375.2			

KANSAS CITY DISTRICT MILITARY INSTALLATIONS

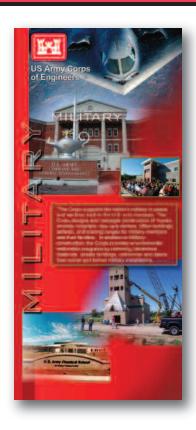


Name of Facility	Location	Name of Facility	Location
	Missouri		Missouri
Camp Crowder	Neosho	McDonnell Aircraft Corp. Lambert Field	
Missouri Ordinance Works	Pike County	(Formerly Curtis-Wright Corp)	St. Louis
Malden Army Air Field (Maulsby Auxiliary Field #2)	Maulsby	National Distillers Product Corp.	Kansas City
St. Louis Ordinance Plant	St. Louis	Whiteman Air Force Base	Knob Noster
St. Louis Ordinance Plant (McQuay-Norris Parking area)	St. Louis	St. Louis Disposal Center #2 (Harvey Parks Airport)	Sikeston
St. Louis Administration Center	St. Louis	St. Louis Ordinance Sub-Depot	St. Louis
Anderson Air Activities	McBride	Springfield National Cemetery	Springfield
St. Charles Rifle Range (Missouri National Guard Range)	St. Charles		
Weingarten POW Camp	Weingarten		Kansas
Ford Motor Company	Kansas City	Jayhawk Ordinance Works	near Galena
Pratt and Whitney Aircraft Corp. of Missouri	Kansas City	Kansas Ordinance Plant	Parsons
Aluminum Company of America	Kansas City	Camp Phillips	Smolan
Missouri Shipbuilding Corp & St. Louis Shipbuilding & Steel Co.	St. Louis	Coffeyville Army Airfield (Auxiliary field #1)	Coffeyville
Weldon Springs Ordinance Works	Weldon Springs	Coffeyville Army Airfield (Auxiliary field #2)	Coffeyville
Rosencrans Army Air Field	St. Joseph	Coffeyville Army Airfield (Auxiliary field #4)	Coffeyville
St. Louis Smelting and Refining Co.	Fredericktown	Strother Field (Auxiliary field #1)	Cowley Co.
Lambert Field (Curtis-Wright Technical Training School)	St. Louis	Strother Field (Auxiliary field #2)	Cowley Co.
Camp Clark POW Camp	Nevada	Olathe Naval Air Station	comey co.
Sedalia Army Air Field (Vichy Army Air Field, Outlying Field)	Sedalia	(Gardner CAA Intermediate Landing Field)	Gardner
Malden Army Air Field	Malden	Kansas City Modification Center #4	Kansas City
Richards - Gebaur Air Force Base	Grandview	Boeing Airplane Co. Plant #2	Wichita
St. Louis Naval Air Station	St. Louis	Independence Army Airfield (Auxiliary Field #4)	Independence
Malden Army Air Field (Dexter Aux. Field #1)	Dexter	Independence Army Airfield (Auxiliary Field #7)	Independence
Malden Army Air Field (Risco Aux. Field #3)	Risco	Concordia POW Camp	Concordia
Malden Army Air Field (Gideon Aux. Field #4)	Gideon	Independence Army Airfield (Auxiliary Field #3)	Independence
Malden Army Air Field (Campbell Aux. Field #6)	Campbell	Independence Army Airfield (Cherryvale Auxiliary Field #9)	Independence
Jefferson Barracks	St. Louis	Garden City AAF (Auxiliary Field #1)	Gray Co.
Ozarks Ore Co.	Ironton	Garden City AAF (Auxiliary Field #2)	Gray Co.
Missouri Institute of Aeronautics	Sikeston	Strother Army Airfield (Arkansas City-Winfield Airport)	Crowley Co.
Kansas City Public Service Co.	Kansas City	Beech Aircraft Corp.	Wichita
Ft. Leonard Wood	St. Robert	Lee Rubber and Tire Corp.	Kansas City
Cape Institute of Aeronautics	Cape Girardeau	Fairfax Field (Adjacent to Aircraft Assembly Plant)	Kansas City
American Can Company	St. Louis	Strother Field (Auxiliary field #5)	Arkansas City
Blytheville Army Air Field Hornersville Aux. A-1	Honersville	Hutchinson Municipal Airport (HNAS, Auxiliary Field #1)	Hutchinson
Blytheville Army Air Field Cooter Aux. #4	Cooter.	Cooperative Refinery Assoc.	Coffeyville
Blytheville Army Air Field Steele Aux. Field #1	Steele, Co.	Coffeyville Army Airfield	Coffeyville



KANSAS CITY DISTRICT MILITARY INSTALLATIONS

Name of Facility	Location
	Kansas
Wichita Municipal Airport	Wichita
Pratt Army Airfield	Pratt
Liberal Army Airfield	Liberal
Walker Field-Smoky Hill Air to Air Gunnery Range	Gove Col
Liberal Army Airfield (Aux. AAF #3)	Garden City
Great Bend Army Airfield	Barton Co.
Camp Phillips (Salina Engr. Redistribution Center	
(Area M. Whse. Sec))	Salina
Kansas City Aircraft ASS. Plant #2	Kansas City
Walker Army Airfield	Victoria
Dodge City Army Airfield Jetmore Auxiliary Field #4)	Jetmore
Dodge City Army Airfield	Dodge City
Herington Army Airfield	Delavan
Midwest Solvents Co., Inc. (Plant sight of lessee)	
and Winthrop, MO. Plant 1312	Atchison
Goodyear Tire and Rubber Co. Plant 2217	Topeka
Garden City Army Airfield	Garden City
Ft. Riley	Manhattan
Eagle-Picher Mining and Smelting Co. (Paxon Operations)	Cherokee Co.
Independence AAF	Montgomery
Kansas City Disp. Center #2 (Fairfax Whse)	Kansas City
Hutchinson HF/DF Station	Hutchinson
Hutchinson Naval Air Station	Hutchinson
Wirt Field	Newton
Forbes Air Force Base	Topeka
Schilling Air Force Base	Salina
McConnell Air Force Base	Wichita



KANSAS CITY DISTRICT HTRW PROJECTS



- 1. 57TH AND N. BROADWAY, KS SUPERFUND SITE, FIVE YEAR REVIEW
- 2. ALCOA, NY SUPERFUND PRP OVERSIGHT FOR RD
- 3. ASTORIA AIRPORT: USTS
- 4. ASTORIA LOW LEVEL BOMBING RANGE: PA/INPR
- 5. ATCHISON CAVES LTM FOR FY05, 89TH RRC
- 6. ATLANTIC RESOURCES, NJ REMEDIAL DESIGN OVERSIGHT ACTIVITIES
- BAKER AFS: UST
- 8. BASIN MINING, MT SUPERFUND SITE FIVE YEAR REVIEW
- 9. BEAVER ARMY TERMINAL: POSS CONTAM WATER
- 10. BERRY CREEK, NJ SUPERFUND SITE TECHNICAL ASSISTANCE RI/FS
- 11. BLAINE NAVAL AMMUNITION DEPOT: OU 15
- 12. BOG CREEK (OU2), NJ SUPERFUND SITE REMEDIAL DESIGN
- 13. BOG CREEK FARM, NJ FOCUSED FEASIBILITY STUDY
- 14. BOISE ARMY BARRACKS
- 15. BREWSTER WELLFIELD, NY SUPERFUND SITE GROUNDWATER TREATMENT SYSTEM O&M
- 16. BROWNFIELDS GRANT REVIEW ORIENTATION/COORDINATION
- 17. BROWNFIELDS SUPPORT TO THE CITY OF KANSAS CITY
- 18. BRUNEAU PRECISION BOMBING RANGE #2: ASR
- 19. BRUNO, NE SUPERFUND SITE TECHNICAL ASSISTANCE FEASIBILITY STUDY
- 20. BURNS AFSTA: SEVERAL UST'S
- 21. CALDWELL TRUCKING, NJ SUPERFUND SITE, OTHER TECHNICAL ASSISTANCE
- 22. CAMP PHILLIPS: PA/INPR
- 23. CAMP WHITE: PA/INPR
- 24. CAMPBELL AUX FLD #6: PA/INPR
- 25. CERRILLOS MINING DISTRICT, NM SUPERFUND RA
- 26. CHEMICAL INSECTICIDE, NJ SUPERFUND SITE REMEDIAL DESIGN
- 27. CHEMICAL LEAMAN, NJ SUPERFUND SITE, TECHNICAL ASSISTANCE RI/FS
- 28. CHEMSOL, INC., NJ SUPERFUND-TECHNICAL ASSISTANCE FOR RA
- 29. CHEROKEE COUNTY, KS SUPERFUND, HAZ WASTE ENFORCEMENT SUPPORT
- 30. COASTAL RADIATION, LA SUPERFUND NORM WASTE DISPOSAL
- 31. COFFEYVILLE AAF: ordnance project
- 32. COFFEYVILLE AUX FLD #4: PA/INPR
- 33. CONCORDIA POW CAMP: PA/INPR
- 34. CORNELL DUBILIER, NJ SUPERFUND SITE REMEDIAL DESIGN
- 35. CORVALLIS AAF: GW/SOIL CONTAMINATION
- 36. CPS/MADISON INDUSTRIES (OU2), NJ SUPERFUND SITE, RI/FS OVERSITE
- 37. DEXTER AUX FLD #1: PA/INPR
- 38. DIAMOND ALKALI, NJ SUPERFUND SITE TECHNICAL ASSISTANCE RI/FS
- 39. DIAMOND HEAD OIL REFINERY, NJ SUPERFUND SITE TECHNICAL ASSISTANCE RI/FS
- 40. DODGE CITY AAF: ASR COMPLETE
- 41. DOVER MUNICIPAL WELL, NJ SUPERFUND SITE TECHNICAL ASSISTANCE RI/FS
- 42. DUPONT NECCO PARK, NY SUPERFUND PRP OVERSIGHT FOR RA
- 43. EAGLE MINE, CO SUPERFUND SITE, 5-YEAR REVIEW
- 44. EMMELLS SEPTIC LANDFILL, NJ SUPERFUND SITE REMEDIAL DESIGN
- 45. EPHRATA AF BASE: ASR COMPLETE
- 46. EPHRATA PATTERN BOMBING RANGE: OEW

- 47. EVOR PHILLIPS SUPERFUND SITE, NEW JERSEY
- 48. FAIRCHILD AFB ATLAS E MISSILE S-4:
- 49. FAIRCHILD AFB ATLAS E S-3:
- 50. FAIRCHILD ATLAS E S-9:
- 51. FEDERAL CENTER COMPLEX: HTRW
- 52. FEDERAL CENTER COMPLEX: PRP PROJECT (AKA BANNISTER)
- 53. FORBES AFB ATLAS FAC S-5: PA/INPR
- 54. FORBES AFB ATLAS FAC S-9: CONFIRMATION STUDY
- 55. FORBES AFB-AF FAC S-6:
- 56. FORBES AFB-AF FAC S-7: HTRW
- 57. FORBES AFB-AF FAC S-8: CON/HTRW
- 58. FORBES AFB: other HTRW areas
- 59. FORDLAND AFS P-68:
- 60. FOREST GLEN, NY SUPERFUND PRP RA OVERSIGHT
- 61. FOREST PARK RECREATION CAMP: ASR
- 62. FORT COLUMBIA MIL. RES.: ASR
- 63. FORT STEVENS MIL RES: UST'S
- 64. FORT TOWNSEND: ASR
- 65. FORT WORDEN:
- 66. FORT WORDEN: Landfill
- 67. FRIED INDUSTRIES, NJ SUPERFUND SITE, REMEDIAL DESIGN
- 68. FT CARSON SUBPART X APPLICATION UPDATE
- 69. FT CROWDER: ASR COMPLETE
- 70. FT LEAVEN PRE GFPR IRP SITES
- 71. FT LEONARD WOOD MACHINE GUN RANGE: PA/INPR
- 72. FT LEONARD WOOD REMEDIAL INVESTIGATION FLW059/FLW037
- 73. FT LEONARD WOOD RIFLE QUALIFYING RANGE: PA/INPR
- 74. FT. RILEY SITE INVESTIGATION OB/OD GROUNDS (RANGE 16)
- 75. FT. LEAV. COST REIM. AE CONTRACT GOAL REMOVAL OF SITE FROM RCRA PERMIT
- 76. FT. LEONARD WOOD GENERAL ENVIRONMENTAL PROGRAM SUPPORT DATA COLL/REP RCRA ETC
- 77. GARDEN CITY AAF: LIMITED RI/FS
- 78. GARDEN CITY AUX FLD #2: 1 UST/EM TO LOCATE
- 79. GARDEN CITY AUX FLD #2: PA/INPR
- 80. GARDEN STATE CLEANERS, NJ SUPERFUND RD OVERSIGHT
- 81. GATEWAY ARMY AMMUNITION PLANT: PA/INPR
- 82. GENERAL MOTORS, MASSENA, NY SUPERFUND PRP RA OVERSIGHT
- 83. GENZALE, NY SUPERFUND SITE REMEDIAL DESIGN GROUNDWATER REMEDIATION SYS
- 84. GEO WRIGHT AIR FORCE BASE:
- 85. GIDEON AUX FLD #3: PA/INPR
- 86. GLEN RIDGE, NJ SUPERFUND SITE REMEDIAL DESIGN
- 87. GLOBAL LANDFILL (OU#2), NJ, SUPERFUND SITE, HWES-DESIGN
- 88. GLOBAL LANDFILL, NJ SUPERFUND TECHNICAL ASSISTANCE FOR RD
- 89. GM MASSENA, NY SUPERFUND PRP OVERSIGHT TECHNICAL ASSISTANCE
- 90. GREAT BEND PBR #2: OEW PROJECT
- 91. GRIFFISS AFB BRAC 95 ENVIRONMENTAL PROGRAM



KANSAS CITY DISTRICT HTRW PROJECTS

- 92. GSA FEDERAL SUPPLY DEPOT, BELLE MEAD, NJ REMEDIAL INVESTIGATION
- 93. HERINGTON AAF: ASR RAC
- 94. HERINGTON RIFLE RANGE: POTENTIALLY 2 TANKS
- HOOKER (HYDE PARK) LANDFILL, NY SUPERFUND PRP OVERSIGHT TECHNICAL ASSISTANCE
- 96. HOOKER CHEMICAL/RUCCO, NY SUPERFUND-RD OVERSIGHT
- 97. HORSESHOE ROAD COMPLEX, NJ REMEDIAL DESIGN
- 98. HUDSON RIVER PCBS, NY SUPERFUND SITE, HAZARDOUS WASTE ENFORCEMENT SUPPORT-CONST
- 99. HUTCHINSON NAS: ASR
- Higgins Disposal, NJ Superfund Site, Hazardous Waste Enforcement Support -Const
- 101. Hooker Hyde Park, NY Superfund Site, Oversight of O&M
- 102. IDAHO NAT. ENGR. LABORATORY: ASR COMPLETE
- 103. IMPERIAL OIL/CHAMPION (OU #3), NJ SUPERFUND SITE, REMEDIAL DESIGN
- 104. INDEPENDENCE AAF: OEW LMS ASR-NOFA
- 105. INDEPENDENCE SATELLITE POW CAMP: PA/INPR
- 106. INVES. & ASSESS IMA-AR/YAKIMA/FORT CARSON/AEC/MISC ENVIRONMENTAL
- 107. IOWA RCRA SUPPORT
- 108. JEFFERSON BARRACKS RIF RG: PA/INPR
- 109. JONES CHEMICAL
- 110. JUNIPER FOREST SUR TRG: PA/INPR
- 111. KANSAS CITY RECORD CENTER: PA/INPR
- 112. KAUFFMAN & MINTEER, NJ SUPERFUND SITE, REMEDIAL ACTION-CONSTRUCTION
- 113. KCDA NIKE 80-RADAR AREA: PA/INPR
- 114. KCDA NIKE BATTERY 10: PA/INPR
- 115. KCDA NIKE BATTERY 30: PA/INPR
- 116. KCDA NIKE BATTERY 60: PCBs at Control Site
- 117. KINGSLEY FIELD: DISPOSAL SITES
- 118. KIRKSVILLE AFS P-64: Tanks
- 119. Kansas Army Ammunition Plant BRAC-ER 05 several projects by WBS Replacement project for P2 #153284
- 120. LAMBERT FLD: PA/INPR
- 121. LARSON AFB TITAN I MISSILE FACILITY S-1:
- 122. LIBERAL AAF: ASR
- 123. LIBERTY INDUSTRIAL, NY SUPERFUND SITE, HAZARDOUS WASTE ENFORCEMENT SPT. DESIGN
- 124. LINCOLN PARK, CO SUPERFUND SITE FIVE YEAR REVIEW
- 125. LITUNGSTEN (GLEN COVE CREEK) (OUR), NY SUPERFUND SITE REMEDIAL DESIGN
- 126. LONE ELK COUNTY PARK: PA/INPR
- 127. LUDLOW SAND & GRAVEL, NY REMEDIAL DESIGN
- 128. LUDLOW SAND & GRAVEL, NY SUPERFUND SITE, OTHER CONSTRUCTION RESPONSE
- 129. MALDEN AIR BASE: PA/INPR
- 130. MALTA TEST STA: MALTA ROCKET FUEL AREA PRP PROJECT
- 131. MANCHESTER ANNEX: UST
- 132. MARK TWAIN IND PARK: PA/INPR

- 133. MARSHALL SATELLITE POW CAMP: PA/INPR
- 134. MARTIN AARON
- 135. MATTIACE PETROLEUM, NY SUPERFUND SITE, HAZARDOUS WASTE ENFORCEMENT SPT - GENERAL
- 136. MAULSBY AUX FLD #2: PA/INPR
- 137. MAYWOOD CHEMICAL, NJ SUPERFUND SITE, FIVE-YEAR REVIEW
- 138. MCGRAW EDISON, IA SUPERFUND SITE, FIVE-YEAR REVIEW
- 139. METALTEC, NJ SUPERFUND TECHNICAL ASSISTANCE FOR FS
- 140. MIAMI INT'L AIRPORT: MIAMI INTL AIRPORT PRP PROJECT
- 141. MIDVALE SLAG, UT SUPERFUND SITE, FIVE-YEAR REVIEW
- 142. MIL PERSON RECORD CENTER: PA/INPR
- 143. MOHONK ROAD, NY SUPERFUND SITE, LONG TERM REMEDIAL ACTION
- 144. MONTCLAIR/WEST ORANGE, NJ SUPERFUND SITE REMEDIAL DESIGN
- 145. MONTGOMERY TOWNSHIP, NJ SUPERFUND RD/RA
- 146. MOUAT INDUSTRIES, MT SUPERFUND SITE FIVE YEAR REVIEW
- 147. MOUNTAIN HOME AF RGE #3: ASR
- 148. MUNICIPAL AP-HUTCHINSON: PA/INPR
- 149. NAS-QUILLAYUTE: HTRW
- 150. NASCOLITE. NJ SUPERFUND RD
- 151. NAV AIR STA, TILLAMOOK: 8 UST'S
- 152. NEBRASKA ORDNANCE PLANT: OPERABLE UNIT 1
- 153. NEW HANOVER COUNTY AIRPORT BURN PIT PRP PROJECT
- 154. NIAG FALLS AR CHEM PLT: PRP
- 155. NIKE HERCULES SL-60: PA/INPR
- 156. NL INDUSTRIES, NJ SUPERFUND SITE, HAZARDOUS WASTE ENFORCEMENT SPT GENERAL
- 157. NORTH BEND AIRPORT: ASR NOFA
- 158. NORTHWEST MANEUVER AREA: OEW PROJECT EE/CA
- 159. O'REILLY GEN HOSPITAL: PA/INPR
- 160. OLATHE NAVAL AIR STATION: WASHRACK, DRUMS, CONC.US
- 161. OLD ROOSEVELT FIELD, NY SUPERFUND SITE, OTHER TECHNICAL ASSISTANCE, VALUE ENGINEERING SCREEN
- 162. OLEAN WELL FIELD, NY SUPERFUND-PRP OVERSIGHT RD
- 163. ORDNANCE OPERABLE UNIT 2
- 164. ORRICK SATELLITE POW CAMP: PA/INPR
- 165. POCATELLO MIL AF:
- 166. POCATELLO MOV TARGET RANG: ASR
- 167. POHATCONG VALLEY (OU#1), NJ SUPERFUND SITE, HAZ WASTE ENFORCEMENT SPT-DESIGN



KANSAS CITY DISTRICT HTRW PROJECTS



- 168. PORT ANGELES COMBAT RANGE: ASR COMPLETE
- 169. POTTAWATOMIE PBR #1: HND TO PERFORM EE/CA
- 170. PRATT AAF: ASR COMPLETE
- 171. PRATT AAF: oew project
- 172. PRATT PBR #1: New OEW
- 173. Puget Sound Naval Puget Sound Naval Ammo Depot: HTRW
- 174. QUANTA RESOURCES, NJ SUPERFUND, HAZ WASTE ENFORCEMENT SUPPORT
- 175. RADIATION TECHNOLOGY (OU2), NJ SUPERFUND SITE RI/FS OVERSIGHT
- 176. RADIATION TECHNOLOGY, NJ SUPERFUND-HAZARDOUS WASTE ENFORCEMENT SUPPORT-DESIGN
- 177. RADON TESTING, ATCHISON CAVES, ATCHISON, KANSAS
- 178. REDMOND AAF: PA/INPR
- 179. REICH FARM. NJ SOILS INVESTIGATION
- 180. REYNOLDS METALS, NY SUPERFUND-PRP RA OVERSIGHT
- 181. RICHARDS-GEBAUR AFB: PRP PROJECT
- 182. RICHARDSON HILL ROAD LANDFILL, NY SUPERFUND SITE HAZ WASTE ENF SUPPT CONSTR
- 183. RISCO AUX FLD #3: PA/INPR
- 184. RIVERFRONT, MO SUPERFUND SITE
- 185. ROCKAWAY BOROUGH WELL FIELD, NJ SUPERFUND SITE, RD TECHNICAL ASSISTANCE
- 186. ROCKY HILL, NJ SUPERFUND RD/RA GROUNDWATER PUMP AND TREAT SYSTEM
- 187. ROEBLING STEEL, NJ SUPERFUND SITE REMEDIAL DESIGN
- 188. ROLLING KNOLLS LANDFILL, NJ SUPERFUND SITE OVERSIGHT OF RI/FS
- 189. ROSEBURG RIFLE RANGE: FURTHER ACTION BY HND RE
- 190. ROSECRANS ARMY AIR FIELD & NATIONAL GUARD: OE
- 191. S E OREGON GUNNERY RANGE: MMRP
- 192. SADDLE MT TAR RG: PA/INPR
- 193. SALINA WASTE ANNEX: PA/INPR
- 194. SAND PT NAS-MAGNUSON PK: PA/INPR
- 195. SCHILLING AFB: CWM Project
- 196. SCHILLING AFB: SHILLING AFB PRP PROJECT
- 197. SCIENTIFIC CHEMICAL PROCESSING, NJ SUPERFUND HAZ WASTE ENFORCMNT
- 198. SEDALIA AAF RIFLE RANGE: ASR COMPLETE
- 199. SEDALIA SATELLITE POW CAMP: PA/INPR
- 200. SHENANDOAH ROAD. NY SUPERFUND SITE-HAZ WASTE ENFORCEMENT SUPPORT
- 201. SHIELDALLOY CORPORATION, NJ SUPERFUND SITE, HAZ WASTE ENFORCEMENT SPT-DESIGN
- 202. SIDNEY LANDFILL, NY SUPERFUND SITE, REMEDIAL ACTION OVERSITE
- 203. SIDNEY LANDFILL, NY, NJ SUPERFUND, HAZARDOUS WASTE ENFORCEMENT SUPPORT
- 204. SLOP PRELIMINARY INVESTIGATION
- 205. SMOKY HILL AIR-AIR GNRY RANGE: ASR COMPLETE
- 206. SMOLAN SATELLITE POW CAMP: PA/INPR
- 207. SOLVENT SAVERS, NY SUPERFUND SITE, TECH ASSIST
- 208. ST LOUIS MEDICAL DEPOT: PA/INPR REVIEW & DOCUMENT BASIS OF THE PROPERTY STATUS

- 209. ST LOUIS NAVAL AIR STATION AREA 1: PA/INPR
- 210. ST LOUIS ORD SUB-DEPOT: PA/INPR
- 211. ST. CHARLES NATIONAL GUARD TARGET RANGE: PA/INPR
- 212. ST. LOUIS ORDNANCE PLANT: PA/INPR
- 213. ST. LOUIS TANK ARMOUR: PA/INPR
- 214. ST.LOUIS ORDNANCE PLANT HANLEY AREA
- 215. STROTHER FIELD: STROTHER FLD PRP PROJECT
- 216. SWAN FALLS BOMBING RANGE: ASR
- 217. SYNCON RESINS, NJ SUPERFUND SITE, REMEDIAL DESIGN
- 218. Scientific Chemical Processing, NJ, Remedial Design Oversight Activities
- 219. TARGET S: PA/INPR
- 220. TOPEKA AAF RIFLE RANGE: ASR COMPLETE RAC 5
- 221. TOPEKA AIR FORCE STATION:
- 222. TRI-CITIES BARREL, NY SUPERFUND SITE, HAZARDOUS WASTE ENFORCEMENT SUPPT DESIGN
- 223. TYSON VALLEY POWDER FARM
- 224. U.S. RADIUM, NJ SUPERFUND SITE TECHNICAL ASSISTANCE RI/FS
- 225. UANTA RESOURCES (OU2), NJ SUPERFUND SITE, OVERSIGHT OF RI/FS
- 226. UNIVERSITY OF MISSOURI RIFLE RANGE: PA/INPR
- 227. UPDATE OF THE FT. LEONARD WOOD, MO SPILL PREVENTION & RESPONSE PLAN
- 228. UPPER TEN MILE CREEK, MT SUPERFUND SITE FIVE YEAR REVIEW
- 229. US RADIUM, NJ SUPERFUND SITE REMEDIAL DESIGN
- 230. USARC ASTORIA: UST
- 231. USFDA LAB DECOMMISSIONING LOS ANGELES LAB
- 232. VARIOUS EQ PROJECTS MCCONNELL AFB, KS
- 233. VASHON NIKE 61:
- 234. VICHY AAF: UST
- 235. WABAUNSEE PBR #2: OEW EE/CA
- 236. WALKER ARMY AIR FIELD: WALKER ARMY AIRFIELD PRP PROJECT
- 237. WARRENSBURG SATELLITE POW CAMP: PA/INPR
- 238. WASATCH CHEMICAL, UT SUPERFUND SITE FIVE-YEAR REVIEW
- 239. WEBSTER-GULF NUCLEAR, TX SUPERFUND NORM WASTE DISPOSAL
- 240. WEINGARTEN POW CAMP: PA/INPR
- 241. WELDON SPRING ORD WORKS: Weldon Spring PRP
- 242. WELDON SPRING ORD WORKS: WSOW 0U2, GROUNDWATER
- 243. WELSBACH & GENERAL GAS, NJ SUPERFUND SITE REMEDIAL DESIGN
- 244. WEST POINT GW SAMPLING/ANALYSIS ON OLD LANDFILLS
- 245. WHITE CHEMICAL, NJ SUPERFUND SITE, TECHNICAL ASSISTANCE RI/FS
- 246. WHITE FARM EQUIPMENT, IA SUPERFUND SITE, FIVE-YEAR REVIEW
- 247. WHITEMAN COMMUNICATIONS TRANSMITTER SITE: Groundwater & soil
- 248. WIRT FIELD: PA/INPR
- 249. YORK OIL OU-2, NY SUPERFUND TECHNICAL ASSISTANCE OVERSIGHT FOR GROUNDWATER RD
- 250. YORK OIL, NY SUPERFUND, HAZARDOUS WASTE ENFORCMENT SUPPORT 0U1
- 251. ZSCHIEGNER REFINING, NJ SUPERFUND SITE REMEDIAL DESIGN