YMDLB Home Office Then & Now



Top: Old Court House in Austin, Mississippi — the birth place of the Levee Board. Photograph is dated April 16, 1884. Above: Current home office in Clarksdale, Mississippi.

LINKS & PARTNERS

Yazoo-Mississippi Delta Levee District www.leveeboard.org

U. S. Army Corps of Engineers — Vicksburg District www.mvk.usace.army.mil

U. S. Army Corps of Engineers — Memphis District www.mvm.usace.army.mil

U. S. Army Corps of Engineers — Five Day River Forecasts www.mvm.usace.army.mil/hydraulics/docs/nws/msrv3.txt

> **Waterways Experiment Station** www.erdc.usace.armv.mil

Mississippi Department of Wildlife, Fisheries, and Parks www.home.mdwfp.com

> **USGS National Mapping Information** www.nationalmap.gov

Mississippi Forestry Commission www.mfc.state.ms.us





YMDLB Celebrates 125th Anniversary

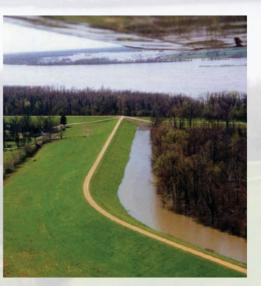
Levee Protects and Improves Quality of Life

The responsibility of the Yazoo-Mississippi Delta Levee Board is to "erect, maintain, and operate a system of levees to protect the people and property of the Delta from damages of high waters of the Mississippi River; to direct the necessary activities attendant to the threat of high water and flood damages from interior rivers and streams; and to furnish the local cooperation required for certain flood control and drainage projects of the U.S. Army Corps of Engineers."

So what does that mean for the citizens of the 10 counties that the Board represents?

"The bottom line, truly, is that since a breech in 1897, the levees within the 10 counties that we protect and maintain have president. "This year marks our 125th 10 counties. anniversary, and that alone is reason to celebrate."

For the past 125 years, the staff, crew, and Board of the Yazoo-Mississippi Delta Levee District have kept people and rivers, and streams; and given back to the community through scholarships, education programs, and beautification Mississippi as a non-emergency agency keys to prosperity and quality of life in the



Above: Since a breech in 1897, levees maintained by the Yazoo Mississippi Delta Levee Board have never

first responder and has logged numerous hours of volunteer time, not only after never had a break," said Sykes Sturdivant, Hurricane Katrina, but also through Yazoo-Mississippi Delta Levee Board storm damage clean-up across the

"Relief from floods has made railroads and highways possible, providing access to markets, consolidation of school systems, and development of new industries," said Kelly Greenwood, Yazoo-Mississippi property safe from flooding; increased Delta Levee Board CEO. "In addition, quality of life by managing interior ditches, improved drainage has reduced sickness and improved agricultural production. The economic progress of the Delta is based on the principle that flood control projects. The Board serves the State of and proper water management are basic

Delta. The Board of Levee Commissioners for the Yazoo-Mississippi Delta is committed to this goal."

The Board protects some 250,000 citizens living in Holmes, Tallahatchie, Yazoo, Leflore, DeSoto, Tunica, Humphreys, Coahoma, Quitman, and Sunflower Counties. The Board is responsible for the first 98 miles of the mainline Mississippi River levee, 18 miles of backwater levees within the Mississippi Delta, and 330 miles of interior rivers and streams.

"The last levee breech in our district was in 1897, and maintenance and improvements on the levees will continue our excellent record," said Greenwood, who also serves as chief engineer. "We will continue to work to ensure the safety of the residents in each of the counties that we serve and represent."

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CONTACT INFORMATION

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B. Sykes Sturdivant, President Tallahatchie County

Bishop David Cotton, Vice President Holmes County

> Ted Winters Sr. Coahoma County

Robert P. Sayle Jr. DeSoto County

N. Craig Brewer III Leflore County

Bobby Rushing Sunflower County

David Williams Jr. Tunica County

Willie Gregory Coahoma County

Ralph Sewell **Humphreys County**

Fred Robinzine Jr. Quitman County

Clarence M. Cariker Jr. Tunica County

William H. Dodd Jr. Yazoo County

Kelly Greenwood Chief Executive Officer Chief Engineer



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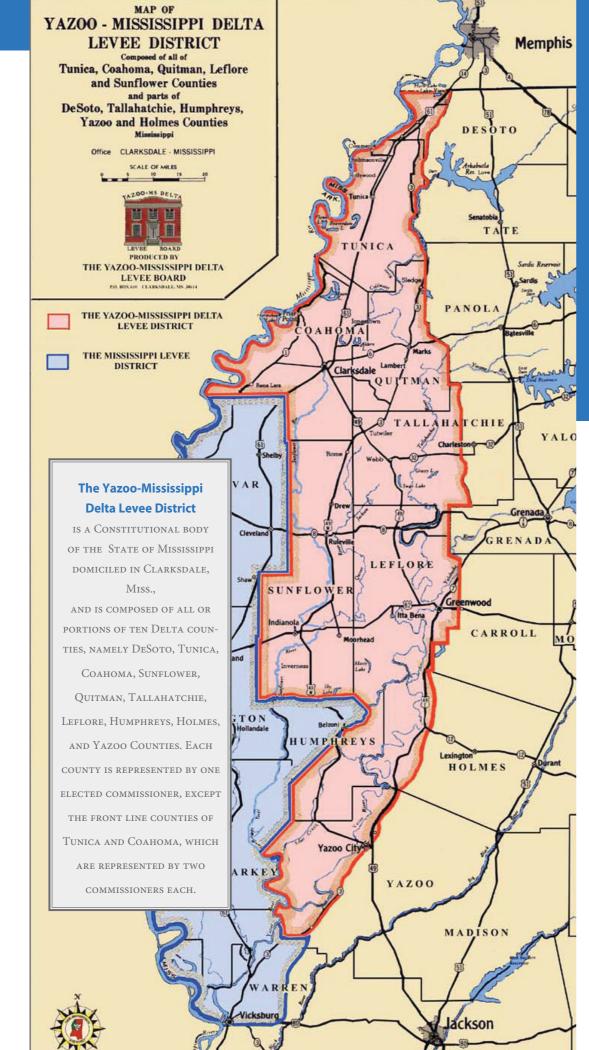
Clarksdale, MS 38614

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WEB SITE: www.leveeboard.org











Above: Indian Bayou

Above: Upper Yazoo Project



Above: Dredging the upper Yazoo







"The Beast" and other machines were recently used to help clear the banks of the Sunflower River in Clarksdale

Yazoo-Mississippi Delta Levee Board Projects

Looking Back: 50 Years of Award-Winning Maintenance

Every year since 1958, the Yazoo-Mississippi Delta Levee Board has received an Outstanding Maintenance Award from the Memphis District, U.S. Army Corps of Engineers. "The rating is a result of the programs and procedures that we have in place to assure that the levee remains in excellent, functional condition at all times," said Kelly Greenwood, Yazoo-Mississippi Delta Levee Board CEO. "As the Board celebrates our 125th anniversary, we also celebrate more than 50 years of extremely high quality maintenance."

Since the breech in 1897, the levees maintained by the Board have never broken. But maintaining the levees to protect citizens from flooding requires much more than one might think. Throughout the years, the Board has been involved in many major projects—all with the protection of lives, land, and livelihood of the some 250,000 citizens it represents.

In 1936, Congress adopted the Flood Control Act, which provided a comprehensive plan called the Yazoo Headwater

Project. The plan consisted of a combination of flood control reservoirs and channel maintenance on the Yazoo River System to safely conduct floods through the Delta to the Mississippi. Work on the Arkabutla, Sardis, Enid, and Grenada reservoirs was completed in 1955. In 1962, the Whittington auxiliary channel and the Greenwood protection works were 55 miles remaining. completed.

The Big Sunflower River and Tributaries Project was first initiated by the U.S. Army Corps of Engineers in the 1960s. Initiation of a major channel rehabilitation began on the lower half of the Big Sunflower River basin in 1999. Major rehabilitation and maintenance of these streams ultimately remains the responsibility of the Corps, but the Board provides minor maintenance to the streams. This project will assure an adequate drainage outlet for interior water within the Mississippi Delta. Board maintenance of the project continues today.

The U.S. Army Corps of Engineers

adopted the Upper Yazoo Project in 1974 which calls for enlarging the existing channel begun in 1976 near Yazoo City. The federally funded project focuses on cleaning out and restoring channel capacity to the Yazoo River and its tributaries at a rate of 10 to 11 miles per year. More than 140 miles have been completed, with

Cleaning and maintaining drainage ditches have been major accomplishments of the Board over the years. One example took place in 2006 when Board crews completed the task of clearing debris that would open existing ditches near the Blue Cain community in Tallahatchie County, thus restoring the ditches to their original capacity and preventing flooding. Citizens were inundated annually by flooding, and before the project was complete, rains of only up to five inches caused roadways to be underwater. Three Board crews complete approximately 100 miles of ditch work per year, totaling at Continued on Page 8

125 Years of YMDLB **Chief Engineers**

Seven individuals have served as Chief Engineer and guided the activities and fortunes of the Yazoo-Mississippi Delta Levee District for the past 125 years:



T.G. Dabney has been described as the "father" of the levee system in the Yazoo-Mississippi Levee District.

T.G. Dabney served the Yazoo-Mississippi Delta Levee District as Chief Engineer from 1884 to 1920 and had further service as Consulting Engineer.

W.L. Head served as Assistant Engineer and as Chief Engineer from 1920 to 1930.

N.E. Offenheiser served as Assistant Engineer and as Chief Engineer from 1930 to 1942.

W.T. McKie served as Assistant Engineer and as Chief Engineer from 1942 to 1964.

Joseph F. Mooney served as Chief Engineer from 1964 to 1991 and has had further service as Consulting Engineer from 1991 to 2000.

Kenneth Weiland served as Chief Engineer from 1991 to 2000.

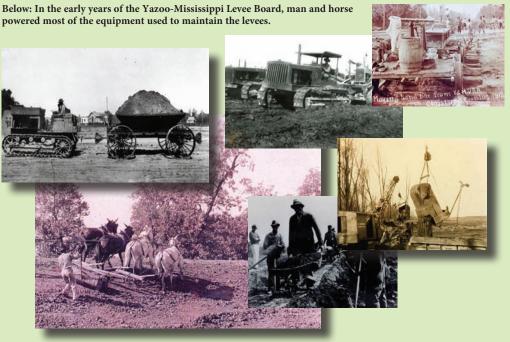


Current Chief Engineer Kelly Greenwood has served as Chief Engineer and CEO from 2000 to present.



Working on the Levee Then & Now

Technology, machinery, and knowledge may have changed since the Yazoo-Mississippi Delta Levee Board was formed in 1884, but the commitment to keep people and property safe from flooding remains the same. As the Board celebrates its 125th anniversary, take a look back at the history of the lands it protects.





ottom Left and Right: Today, modern machinery, along ith manpower, helps provide flood relief to residents of







The Yazoo-Mississippi Delta Levee **District** was formed by an act of the State Legislature in 1884.

1884

President Herbert Hoover described this event as "the greatest peacetime disaster in the history of the United States." This flood brought about passage by Congress of The Flood Control Act of 1928, which recognized that Mississippi River flooding was of national concern and not just the concern of local or state authorities

In 1927, the "flood of record" took

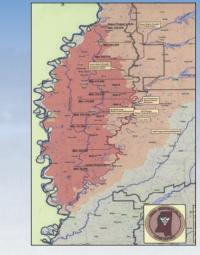
place in the Mississippi Valley.

1927



The Mississippi Valley and the Yazoo-Mississippi Delta Levee District went from 1937 to 1972 without a flood event, which left a new generation with little or no personal knowledge of the devastation of Mississippi River floods.

1937-1972



In 1974, the Corps of Engineers, after presenting a number of plans to the affected population, adopted a new plan, the Upper Yazoo Project. The UYP, which calls for enlarging the existing channel, was begun in 1976 near Yazoo City. This extremely important project is not complete.

In 1991, the town of Marks experienced a 100-year flood of record. Due to efforts of the YMDLB, the town was spared from extreme damage. After heavy storms in 2001, waters rose within 6 inches of the 1991 flood.

Top: Tunica RiverPark Museum. Bottom Left: Rock Quarry. Bottom

1991 to Present



1917

In 1917, the U.S. Congress adopted the first true Flood Control Act to relieve Mississippi River overflow by setting standards for higher and stronger levees and placing revetments to prevent loss of levees to caving riverbanks. The act called for local cost sharing, and the districts were charged with the responsibility of providing maintenance and right of way. But the Yazoo-Mississippi Delta Levee District's levees were already up to the newly enacted standards, and the district did not qualify for federal work under the act.



In 1937, the second highest flood on record flowed safely through the Mississippi Valley without a single levee break. Evaluation of this flood led to new standards incorporated into the Flood Control Act of 1941.



1973

The **flood of 1973** proved once again that flood control must be given priority status for the protection of the Delta and the entire Mississippi Valley. Flood stages at St. Louis lasted 77 days and 89 days at Vicksburg. Although there was not a major levee failure in the Delta, the flood provided a continuous protracted fight to stabilize many weak points that developed.



1983

The 1983 flood was signified by its duration with above-bank stages at many gauging stations almost continuously from December 1982 to June 1983. Emergencies occurred at numerous locations along the river. This flood again proved that constant attention must be paid to flood protection in order for the Delta and the entire Mississippi Valley to





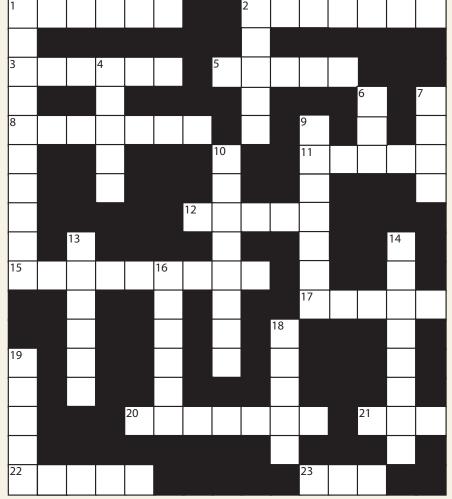
CROSSWORD PUZZLE CONTEST!

Qualify to win a \$100 gift card from Walmart

1. Greenwood is known as the capital



Complete the crossword and qualify to win a \$100 gift card from **Walmart.** To be entered in the drawing, all answers on the puzzle must be correct and be received by October 31, 2009. The winner will be notified on November 5, 2009. The contest is open to the general public with the exception of those employed directly by the YMDLB.



Nan	ne:			-	-		
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Pho	ne:						
Ema							

YMDLB Anniversary Contest Attention: M. Johnson P.O. Box 531 Jackson, MS 39205-0531

of the world.

2. The catfish capital of the world is	•
3. Federal Emergency Management	•
5. Indian Clean Out Project.	
8. YMDLB assisted with cleanup after Hurricane	
11. Students love the YMDLB fishing	
12. The first levees were constructed 3,000 years ago in	
15. Levee workshops for teachers.	
17. The bear was named after President Roosevelt during a hunt in Sharkey County, Mississippi.	•
20 Swamp is located in Humphreys County.	•
21. YMDLB serves counties.	•
22. Clarence Cariker Horse is located in Tunica County.	•
23. Tunica Cut	7
DOWN	
Levee Board headquarters is located in, Mississippi.	
2. The is the nickname of the machine YMDLB uses to turn trees into mulch.	ut alo
4. YMDLB donated the Mississippi Fish Hatchery.	ng do
Protective is planted to prevent loss of dirt from levees.	tted li
7. YMDLB " A Better Mississippi."	ne a
Levees people and property from high waters and flood damage.	Cut along dotted line and mail to address be
10. The state flower of Mississippi:	ail to
13. Mardi Gras colors:, green and gold.) a
	0
14. Father of the Levee Board:	ddre

___ Yazoo project received \$22.5

million in congressional funds in 2007.

19. The Flood occured in 1927.

Departments of the Yazoo Mississippi Delta Levee Board

Several Yazoo-Mississippi Delta Levee technical data during flood and natural

Department performs a wide range of control works. physical tasks associated with flood emergencies, maintenance, and protection of the 98 miles of mainline levee and 330 miles of interior rivers and streams.

for full-time technical guidance and lead-

full-time Registered Professional Land during periods of high water. Surveyor and survey crew to provide critical

Board departments are in place to ensure emergencies as well as to perform day the safety, prosperity, and quality of life of to day boundary and topographical work associated with the establishment and The Operations and Maintenance protection of rights-of-way and flood

The Forestry Department includes a full-time Licensed Forester for the proper oversight and management of the timber on the Board right-of-The **Engineering Department** provides way riverside of the mainline levee.



Above: Construction of a levee berm.

Board Commission is made up of 12 The Yazoo-Mississippi Delta Levee popularly elected Commissioners from ership for flood and natural emergencies Board also employs trained and certified the 10 Delta Counties within the district. as well as the day to day operations Law Enforcement officers. They patrol The Commissioners, as a whole, elect a of the mainline levee and interior drainage the levee structure and adjacent right-of- President and a Vice President to oversee way, observe and report problems, enforce the implementation of policies set by the The Survey Department employs a laws and regulations, and facilitate access Board. The Chief Executive Officer serves as Chief Engineer and oversees execution The Yazoo-Mississippi Delta Levee of Board policies and day to day activities.

YMDLB Projects, continued from page 3

Continued from Page 3

annually to prevent flooding by keeping seepage was the Farrell Relief Well Established in 1978, Panther Swamp provided drainage for several homes and the Corps, strengthened a one-mile section 38,697 acres in Yazoo and Humphreys agricultural land in Humphreys County, of the Mississippi River levee system with Counties. In addition to providing rest-Rivers and Tributaries crew also com- in Coahoma County. pleted extensive work southeast of Silver City and Carter.

like a spring, which can ultimately cause part of the Yazoo River Basin.

massive cleanup effort of **Indian Bayou** in neotropical migratory songbirds. In 2006, Trotter's Berm near Flowers Sunflower County in 2008. Using machin-Lake, five miles west of Clayton in Tunica ery supplied by the Board, officials removed cleared the banks of the Sunflower River County, was extended on almost 44½ huge masses of alligator weed from the between Second Street and State Street in acres of newly aguired real estate by the south fork of Indian Bayou between Clarksdale. To take care of the fallen trees Board. Failures to earthen levees are often Westside Drive and the Alexander Avenue and brush piles, crews used The Beast, the caused by increased seepage in a dirt bridge. The short-term plan was to remove as specialized wood chipping machine that levee, and the extended berm will reduce much vegetation as possible from the trouthe board purchased in 2005. The Beast the hydraulic pressure so the water seeps bled stream and then mount an aggressive was first used to assist with Hurricane at a safe level, keeping it from boiling up control plan in the future. Indian Bayou is Katrina cleanup on the Coast and again

levee breeches. The Memphis District, Also in 2008, the Board assisted the after a tornado and straight line winds U.S. Army Corps of Engineers was in U.S. Fish and Wildlife Service by installing left downed trees and limbs. The Beast charge of the project to reduce seepage culverts at the portion of Panther Swamp, left piles of wood chips reaching nearly on the land owned by the Board, which located in Humphreys County. Panther 20 feet in height along the banks of the involved filling in low spots in the berm Swamp National Wildlife Refuge is one of Sunflower River.

up to an elevation of approximately 180 seven refuges in the Theodore Roosevelt least \$2.5 million worth of work done feet. Another project completed to reduce National Wildlife Refuge Complex. ditches clean. In 2008, the Board Project in 2008. The Board, together with National Wildlife Refuge encompasses southwest of Louise. The Big Sunflower the addition of 47 relief wells near Farrell ing and feeding areas for over 100,000 wintering waterfowl annually, the refuge The Board assisted with the also provides habitat for 200 species of

> In the summer of 2009, the Board in May in Northern Coahoma County

First Responder "The Beast" Put To Work



Left: The Beast, a specialized wood chipping machine owned by the Yazoo-Mississippi Delta evee Board, was used on the Aississippi Gulf Coast following lurricane Katrina in 2005. The Board was named as a supporting agency to MEMA as a result of the manpower logged during the months following the disaster. The Board continues to use it today for clean-up across the state

Delta Levee Board was named as a support- Coast recover." ing agency for the Mississippi Emergency Management Agency (MEMA). This manpower can be summoned by MEMA

"This is a life-long commitment we have to the state," said Kelly Greenwood, Yazoo Mississippi Levee Board CEO. "We back on its feet."

disaster and be completely self-sufficient, providing its own food, water, sleeping ditch clean-up. arrangements, and fuel for team members.

Hours after Hurricane Katrina blew Board mobilized staff and equipment to the Coast to begin what would become an \$809,000 recovery effort. "We knew imme-"We knew it was something we had to do to help our state in a time of great tragedy."

Yazoo Mississippi Delta Levee Board President Sykes Sturdivant said that the commissioners unanimously support- at daily 6 a.m. meetings. ed Greenwood's decision to mobilize immediately.

equipped for a disaster this team is, and we They were crippled."

After its outstanding work in Hurricane are extremely proud of their selfless actions Katrina recovery, the Yazoo-Mississippi and tireless efforts to help citizens on the

maintain Yazoo-Mississippi Delta levees high honor means that equipment and full-time, rotated in and out, logging more than 26,000 man hours from August 30 to assist with cleanup in times of major until late November of that year. Initial aid disasters such as hurricanes, tornados, and came in the way of fuel and equipment, including seven dump trucks, three excavators, two loaders, and numerous other vehicles and tools. The Board team was quickly organized to aid in the clean-up of want the guys to be going in and helping several areas, including cemeteries, beachout until an area struck by disaster gets es, and public and recreational areas, and also helped clear Buccaneer State Park and Jamie Roberson, Board emergency McLeod State Park in Hancock County to management director, said the Board's ready the area for FEMA's temporary housgoal is to mobilize immediately after a ing. The most time-consuming portion of Hurricane Katrina cleanup. Its primary the recovery effort, however, focused on

"We helped remove debris from ditches in Waveland, Bay St. Louis, and through the state in 2005, members of the Diamondhead," Greenwood said. "We started at the Gulf and worked our way in all the way to I-10."

The team, who brought their own eatdiately that we had to go," said Greenwood. ing and drinking supplies, slept on the floor of temporary headquarters, used portable restrooms, and showered with cold water in tents furnished by the National Guard. Greenwood received assignments

"It was pretty overwhelming, but you could see progress made every day," "The commissioners wanted to help Greenwood said. "Most of the state and fellow Mississippians in a time of need," county employees had lost everything, and Sturdivant said. "It is amazing how well- equipment was damaged or destroyed.

The Beast Used for Cleanup of Tornado-Damaged Land

This year, the Board had the opportunity Almost 40 Board employees, who to serve again after a tornado and straight line winds hit the northern portion of Coahoma County on Saturday, May 10. By the following Thursday afternoon, workers with the Yazoo-Mississippi Delta Levee Board and Coahoma County road department were virtually through breaking down the majority of fallen trees and limbs.

> The task was so quickly completed with the help of "The Beast", a specialized wood chipping machine able to convert trees up to 30 inches in diameter into mulch with ease. Owned by the Board, The Beast was purchased in 2005 and assisted with mission on the Coast during the months following the disaster was helping clear state parks in Hancock County, where the Federal Emergency Management Agency located trailers for temporary housing.

The Board is the only public entity in the state to own and operate this piece of equipment—and it is the only one in the state with such a capacity to support the Mississippi Emergency Management

Jamie Roberson, Board emergency management director, mobilized 28 staff members, and in only one and a half days, debris removal in the town of Coahoma was completed, followed by work at Friars

The Beast is housed in Rena Laura and requires an 18-wheeler truck to transport it to the work site.