DESOTO, MARSHALL, AND TATE COUNTIES, MISSISSIPPI Evaluation of the Healthy Kids, Healthy Communities National Program

December 2009 to December 2013



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### **BACKGROUND**

### **Healthy Kids, Healthy Communities National Program**

With the goal of preventing childhood obesity, the Healthy Kids, Healthy Communities (HKHC) national program, funded by the Robert Wood Johnson Foundation (RWJF), provided grants to 49 community partnerships across the United States (Figure 1). Healthy eating and active living policy, system, and environmental changes were implemented to support healthier communities for children and families. The program placed special emphasis on reaching children at highest risk for obesity on the basis of race, ethnicity, income, or geographic location.<sup>1</sup>

Project Officers from the HKHC National Program Office assisted community partnerships in creating and implementing annual workplans organized by goals, tactics, activities, and benchmarks. Through site visits and monthly conference calls, community partnerships also received guidance on developing and maintaining local partnerships, conducting assessments, implementing strategies, and disseminating and sustaining their local initiatives. Additional opportunities supplemented the one-on-one guidance from Project Officers, including peer engagement through annual conferences and a program website, communications training and support, and specialized technical assistance (e.g., health law and policy).

For more about the national program and grantees, visit www.healthykidshealthycommunities.org.

Figure 1: Map of Healthy Kids, Healthy Communities Partnerships



### **Evaluation of Healthy Kids, Healthy Communities**

Transtria LLC and Washington University Institute for Public Health received funding from the Robert Wood Johnson Foundation to evaluate the HKHC national program. They tracked plans, processes, strategies, and results related to active living and healthy eating policy, system, and environmental changes as well as influences associated with partnership and community capacity and broader social determinants of health. Reported "actions," or steps taken by community partnerships to advance their goals, tactics, activities, or

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benchmarks from their workplans, formed community progress reports tracked through the HKHC Community Dashboard program website. This website included various functions, such as social networking, progress reporting, and tools and resources to maintain a steady flow of users over time and increase peer engagement across communities.

In addition to action reporting, evaluators collaborated with community partners to conduct individual and group interviews with partners and community representatives, environmental audits and direct observations in specific project areas (where applicable), and group model building sessions. Data from an online survey, photos, community annual reports, and existing surveillance systems (e.g., U.S. census) supplemented information collected alongside the community partnerships.

For more about the evaluation, visit www.transtria.com/hkhc.

### Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties

In December 2009, the Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties partnership received a four-year, \$360,000 grant as part of the HKHC national program. The partnership focused on increasing access to healthy foods and physical activity opportunities within the three counties located in the Delta region of Northwestern Mississippi.

The Community Foundation of Northwest Mississippi was the lead agency for the partnership. The partnership and capacity building strategies of the Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties partnership included:

- Training and Technical Assistance: The Community Foundation of Northwest Mississippi provided training
  opportunities and technical assistance on active living and healthy eating policy and environmental
  changes. The opportunities included annual summits or conferences and several presentations.
- DeSoto County Community Health Council's Youth Health Ambassadors: The HKHC partnership
  collaborated with the DeSoto County Health Council to develop the MoveDeSoto....Change4Life! program
  that was designed to provide support and training to youth and school staff to implement health councils.

See Appendix A: Desoto, Marshall, and Tate Counties Evaluation Logic Model and Appendix B: Partnership and Community Capacity Survey Results for additional information.

Along with partnership and capacity building strategies, the Healthy Kids, Health Communities of Desoto, Marshall, and Tate Counties partnership incorporated assessment and community engagement activities to support the partnership and the healthy eating and active living strategies.

The healthy eating and active living strategies of the Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate included:

- Comprehensive Plans: The Cities of Olive Branch and Holly Springs revised and expanded their Comprehensive Plans to include recommendations for active living.
- Active Transportation: The cities of Holly Springs, Byhalia, Senatobia, and Hernando adopted a Complete Streets Policy. Design standards were created for sidewalks in Byhalia and Holly Springs, and a grant was received from the Mississippi Department of Transportation to upgrade sidewalks in Senatobia. Since 2010, Hernando added bike lanes and a new stretch of sidewalk that connected the east and west sides of the city. In addition, an agreement with the Mississippi Department of Transportation and Hernando was signed for the use of an underpass to connect the city, and a new walking track was installed at Senatobia Middle School.
- Greenways/Blueways: In 2011, DeSoto County and local municipal officials received \$2.26 million from
  the Mississippi Department of Transportation for greenway projects. The projects included beginning
  development of the Johnson Creek trail; an extension of the Bass Landing Park trail; design and
  construction of a new trailhead and trails at the Crockrum Civic Center; construction of an asphalt bicycle
  path/walking trail from the Central Park. In 2012, a set of rules and regulations was created for the DeSoto
  County Greenways. A comprehensive update of the Greenways Plan is currently underway and will be
  completed after December 14, 2013.

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- Parks and Play Spaces: To increase active living in the tri-county area, several environmental changes
  were made. New play equipment was installed at parks in DeSoto, Marshall, and Tate Counties. New
  signs identifying the park name were placed in ten DeSoto County parks, and improvements were made
  to the walking trail in Byhalia. Land donations were received to develop a new park in Senatobia, expand
  a park in DeSoto County, and to build a skate park in the City of Hernando. In addition, a DeSoto County
  Parks and Recreation District was established.
- Farmers' Markets: The City of Holly Springs and City of Olive Branch established farmers' markets. Two
  existing markets, Tate County Farmers' Market and Hernando Farmers' market received certification from
  the Mississippi Farmers' Market Certification Program. In 2013, the markets were able to start accepting
  Supplemental Nutrition Assistance Program (SNAP) and Senior Vouchers.
- Other Healthy Eating Strategies: To increase access to healthy foods in the tri-county area, the
  partnership supported several community initiatives including the creation of a regional food hub,
  development of learning gardens, establishment of a mobile food pantry, and providing community health
  partner awards for healthy restaurants.

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### **COMMUNITY DEMOGRAPHICS**

DeSoto, Marshall, and Tate Counties are located in the Delta region of Northwestern Mississippi (see Figure 2). With a total population of 227,282, the counties are a part of the Memphis, Tennessee metropolitan area. DeSoto County, which includes the cities of Hernando, Horn Lake, Olive Branch and Southaven, is a suburban area with a population of 161,252. Marshall County, which includes Holly Springs and Byhalia, is a rural area with a population of 37,144. Tate County, which includes the cities of Senatobia and Coldwater, is also a rural area with a population of 28,886.<sup>2</sup> The tri-county area is bound together by the upper Coldwater River Watershed, a tributary of the Mississippi River. See Table 1 for demographic information.

Figure 2: Map of Desoto, Marshall, and Tate Counties, Mississippi<sup>3</sup>

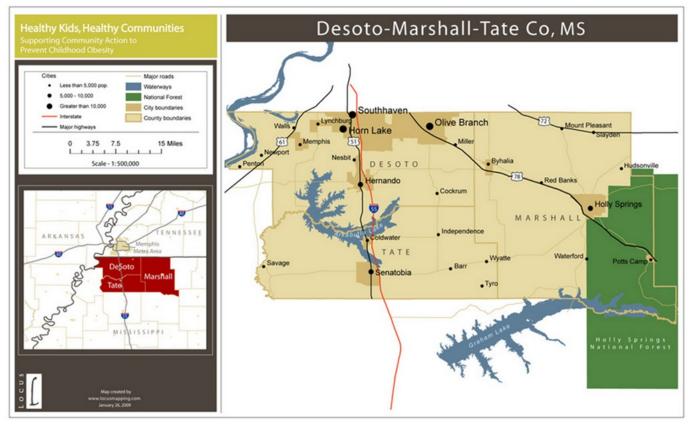


Table 1: Desoto, Marshall, and Tate County Demographics, 2010<sup>2</sup>

	Population % I	% Below	Race/Ethnicity		% Language Other than	
Community	Population	Poverty	Black	Hispanic	English	
DeSoto County	161,252	9.5%	21.9%	5.0%	5.9%	
Hernando	14,090	11.0%	13.1%	5.5%	5.4%	
Horn Lake	26,066	16.0%	32.9%	8.0%	8.0%	
Olive Branch	33,484	5.0%	23.1%	4.2%	7.3%	
Southaven	48,982	10.5%	22.2%	5.0%	5.5%	
Marshall County	37,144	24.2%	46.9%	3.2%	3.4%	
Byhalia	1,302	43.7%	44.9%	4.0%	0.9%	
Holly Springs	7,699	41.4%	79.2%	2.2%	2.2%	
Tate County	28,886	18.1%	30.3%	2.2%	2.3%	
Coldwater	1,677	35.2%	75.7%	1.4%	0.0%	
Senatobia	8,165	22.0%	35.0%	2.4%	2.9%	

### **INFLUENCE OF SOCIAL DETERMINANTS**

### **Poverty and Unemployment**

Approximately 9.5% to 24.2% of residents are living below the poverty level in DeSoto, Marshall, and Tate Counties. Byhalia (43.7%), Holly Springs (41.4%), and Coldwater (35.2%) have much higher rates. Unemployment rates range from 8.0% to 13.0%, with Marshall County having the highest rate. Residents oftentimes travel to Memphis to work. For example, 65% of DeSoto County residents work in Memphis. Jobs in the three counties are typically in manufacturing and government.

### **Economic Development/City Funding**

Elected officials in Marshall and Tate Counties are eager to boost economic development, because the counties are very low-income. Hernando is working to attract more businesses and shops, which will generate more tax funds.

Approximately 60-65% of general fund budgets in most cities come from sales tax revenue; therefore, cities encourage any kind of business development, even fast food restaurants. The city of Hernando has the lowest tax rate of the four major cities in DeSoto County.

### **Schools**

DeSoto County, which has one consolidated school system, is the largest in the state. Tate and Marshall Counties each have two school districts. The state legislature is trying to consolidate many of the schools in Mississippi because there are many at-risk, failing schools that do not have funding.

### **Smoking Ordinances**

Adult smoking rates in Marshall (29%), Tate (28%), and DeSoto (24%) Counties are higher than the national (13%) and state of Mississippi (24%) rates.<sup>4</sup> A few of the communities have smoking ordinances, including Senatobia and Hernando, which are a smoke-free community. Although smoking ordinances exist, some are very restricted, such as the Olive Branch Ordinance which bans smoking in restaurants until 9 PM.

### **Transportation**

There is no public transportation system in DeSoto, Marshall, or Tate Counties. Although, federally funded busses are provided to take residents to medical appointments. A large portion of DeSoto County residents work in Memphis and would benefit from a public bus route.

## HEALTHY KIDS, HEALTHY COMMUNITIES OF DESOTO, MARSHALL, AND TATE COUNTIES PARTNERSHIP

### **Lead Agency and Leadership Teams**

The lead agency was the Community Foundation of Northwest Mississippi. The foundation was started in 2002 and currently serves ten counties in Northwest Mississippi. Governed by a board of 20 volunteer civic leaders, the agency prioritized youth, education, and health. The foundation managed 133 donor-established funds and distributed \$11.2 million to support organizations.<sup>5</sup>

A multidisciplinary partnership, focusing on childhood obesity, was created in 2005 by a local county attorney and physician in DeSoto County. Since receiving HKHC funds, the efforts had been expanded to include Marshall and Tate Counties. Project Director Peggy Linton and Project Coordinator Shelly Johnstone had led the partnership since the beginning of HKHC. Peggy is employed by the Foundation, while Shelly Johnson is a contractor through Johnstone & Associates. Other staff from the Community Foundation of Northwest Mississippi helped with HKHC activities, but were not funded through the grant.

A Partners Group was established in each of the counties. The groups consisted of residents, mayors, health officials, educators, churches, businesses, and non-profits. See Appendix C for a list of partners. The Partners met each year to review and update plans for healthy eating and active living. Desoto County's Partner Group was renamed the Community Health Council. The remaining Partner Groups were merged into the Mayor's Health Council.

### **PARTNERSHIP FUNDING**

Several funding sources were obtained to support the HKHC initiatives. Grants or funds were received from private and public foundations or organizations. As part of HKHC, grantees were expected to secure a cash and/or in-kind match equal to at least 50% of the funds received from Robert Wood Johnson Foundation (RWJF) over the entire grant period. For additional funding information, see Appendix D: Sources and Amounts of Funding Leveraged. Partner organizations provided in-kind support for staff time and meeting space as part of the matching funds.

A few examples of funds received to support the HKHC initiatives included:

- The lead agency received a \$50,000 grant from General Mills called Champions for Healthy Kids to work with preschools in DeSoto and Tate Counties through the First Regional Library Child Resource and Referral Center.
- A three-year grant for \$350,000 was received from W.K. Kellogg Foundation to sustain the work of the Regional Health Council.
- The Mississippi Department of Transportation funded the City of Senatobia \$238,000 for Safe Routes to School.
- The City of Senatobia received a \$10,000 Delta Health Collaborative grant to establish a Mayor's Health Council.
- Youth Service America awarded the Community Foundation of Northwest Mississippi and the after-school garden program a \$2,000 grant to assist in developing new gardens and expanding existing gardens.
- A grant for \$1,000 from Entergy (the local utility provider) assisted with the creation of raised vegetable and herb gardens in elementary schools in DeSoto County serving approximately 15,000 children.
- A two-year Robert Wood Johnson Foundation grant of \$150,000 will provide continuation and coordination of the Regional Health Council.

### **COMMUNITY ASSESSMENT**

The partnership conducted several general assessments to guide the HKHC initiative.

- Policy Checklist/Document Review: Project Coordinator and Evaluator Shelly Johnstone completed
  assessments in each city and town in the tri-county area. In June 2010, she tailored a policy checklist
  after receiving training through the Centers for Disease Control and Prevention (CDC). She also reviewed
  each county's Comprehensive Plan and interviewed the mayors. Assessment results were compiled and
  shared with local mayors in September 2010.
- Focus Groups: In May 2010, key leaders, parents, and church representatives from Marshall and Tate Counties participated in focus groups to discuss barriers, challenges, and opportunities to becoming a healthier community.
- Charrettes: The Bouchillon Institute for Community Planning conducted a seminar in December 2010.
  The seminar was followed up with Charrettes in Tate and Marshall Counties to facilitate healthy
  community planning. A Community Strategic Plan was developed for each county that included a vision
  statement, existing/potential resources, goals, objectives, and strategies related to healthy eating and
  active living. Results were presented to the Partner Groups of each county.
- Healthy Congregations Survey: Surveys were completed by participants of the Healthy Congregations Conference 2010 and 2011, which indicated the congregations that were involved in health ministries.

In addition, the partnership, in collaboration with partners, conducted several strategy-specific assessments to help guide the planning and implementation of HKHC activities.

- Corner Store Survey: In 2011, a survey tool was developed by Dr. Heather Chambliss from the University
  of Memphis entitled "Living for Healthier Mississippi Today." An intern from the university used the tool to
  survey stores in Marshall and Tate Counties. Survey results, observations, and recommendations were
  compiled into a report.
- Farmers' Market Survey: The farmers' markets in the tri-county area were surveyed to better understand what they needed in order to be sustainable.
- Farmers' Market Environmental Audit: The partnership used the Farmers' Market Environmental Audit to assess the Tate County Farmers' Market, Hernando Farmers' Market, and Olive Branch Farmers' Market. The tool was modified from existing audit tools including the Farmers' Market Vendor Evaluation, Farmers' Market Evaluation, Mystery Shopping Farmers' Market, and the Nutrition Environment Measurement Survey (NEMS). The tool assessed the presence or absence of different features as well as the quality or condition of the physical environment. Data was collected in 2012 and 2013. Findings indicated that at least 50% of the market vendors at each market sold fresh produce. For further information, see the summary report in Appendix E.
- Parks and Recreation Survey: Hernando residents completed a parks and recreation survey to help plan future park projects. The results of the survey were discussed at the Board of Aldermen meeting on October 18, 2011.
- Parks and Play Spaces Environmental Audit: Representatives from the partnership used audits to assess
  the presence or absence of different features as well as the quality or condition of parks and play spaces
  in DeSoto County. Ten parks and play spaces were included in the assessment. Results indicated that all
  ten spaces were located outdoors and had clear signage displaying the park name. The parks were all
  accessible, none required entrance fees, and there were no vending machines on-site. For further
  information, see the summary report in Appendix F.

### PLANNING AND ADVOCACY EFFORTS

### **Community Outreach, Engagement, and Advocacy**

Residents of DeSoto, Marshall, and Tate were involved in the multi-disciplinary partnership. As mentioned previously, each county had its own Partner Group. Members of the partnership have made individual contacts and used email for project updates.

Partnership sessions were held for youth, but because of competing school activities and lack of transportation, participation was low. Youth engagement was especially challenging in Marshall County. The partnership piloted the Alliance for a Healthier Generation's EmpowerME4Life at a summer camp that was held in Holly Springs, MS. At the summer camp, youth were taught about healthy eating and active living. Outside of the summer camp, EmpowerME4Life youth sessions were held twice a week for four weeks in 2010 to empower youth to advocate for change within their communities. In addition, information was provided to several youth groups in the tri-county area, including the Superintendent's Youth Leadership Council in DeSoto County, Teens for Tate, and DeSoto/Tate County Tobacoo-Free Students Working Against Tobacco.

Residents, community leaders, and elected officials were actively engaged through seminars, trainings, and technical assistance.

- The Bouchillon Institute for Community Planning conducted a free Your Town-Your Health Seminar in December 2010 to facilitate healthy community planning. About 50 individuals, including planners, community leaders, and elected officials from the tri-county area participated. Charrettes were conducted after the seminar in Tate and Marshall Counties, and Geographic Information Systems (GIS) maps were created for the communities.
- A Healthy Ministry Advocate Training was held in September of 2010 for nurses or lay persons who
  wanted to start health ministries in their churches. The five course graduates were trained to be advocate
  for healthy communities.
- An annual Healthy Congregations Conference, sponsored by the Community Foundation of Northwest Mississippi and the Mississippi Faith-Based Healthy and Wellness Network, was held for community residents.
- In 2011, The Bouchillon Institute held a training seminar for community officials focused on active living.
- Physical activity and healthy eating training workshops were held for preschool and daycare staff in 2012.
   The workshops were called "I'm Moving I'm Learning," and participants received a Choosey Kids Toolkit.
   The workshops were funded through General Mills, and the grant also supported parent and child "Start Healthy Stay Healthy" sessions at local libraries.
- In 2013, The Community Foundation of Northwest Mississippi held regional health summits to work on creating a strategic plan.
- Over the four years, the partnership provided on-site assistance and resources to each of the tri-counties, including the Healthier Community Toolkit, National Policy and Legal Analysis Network (NPLAN) templates, HKHC Dashboard resources, and guides to start a community garden and health ministry.

In addition, the partnership supported and engaged community members through their participation in local and regional councils.

### Mayor's Health Council

The partnership, in collaboration with the City of Senatobia, created the Mayor's Health Council. The city applied for and received a \$10,000 Delta Health Collaborative grant to establish the council. The group met once a month to work on health issues including childhood obesity. A representative from the Mayor's Health Council served on the Regional Health Council.

### Regional Health Council

Representatives from the partnership were engaged in the Regional Health Council, which was comprised of

non-profit organizations from across eight counties in the northwest Mississippi region. In May 2011, the council received a grant from the Kellogg Foundation for \$375,000 for development and sustainability efforts that focused on physical activity, access to healthy foods, and nutritional education.

### Food Policy Council

Representatives of the partnership were engaged in the Mississippi Food Policy Council. The Project Director served on the Farm to School Subcommittee.

### **Programs/Promotions**

Several programs were held from 2009 to 2013 related to the HKHC initiative, including the Byhalia Health Fest, Walk with the Mayor, Biggest Loser Contest at Town Hall, Project Fit America, DeSoto County Health and Fitness Day, and a 5K Walk/Run for American Cancer Society and Sounds of Summer.

In 2012, a local HKHC partner, the YMCA in DeSoto County, added Coordinated Approach To Child Health (CATCH) to its summer and after-school programs. CATCH was a curriculum designed to incorporate physical activity into learning games and exercises. Some local daycare programs also used Sports, Play, and Active Recreation for Kids (SPARK) equipment.

The HKHC initiative and other health-related initiatives in the tri-county area were promoted through local news (e.g., Channel 5 NBC, ABC Good Morning America), German TV, local and state newspapers (e.g., DeSoto County Times/Tribune, Clarion Ledger), and social media (e.g., Facebook).

### **COMPREHENSIVE PLAN**

The partnership supported the City of Holly Springs and the City of Olive Branch as they revised their Comprehensive Plans.

### Policy, Practice, and Environmental Changes

- The City of Olive Branch in DeSoto County expanded its Comprehensive Plan in May 2012 to include recommendations for parks, recreation, and open spaces.
- In the spring of 2013, the City of Holly Springs in Marshall County revised and passed a new Comprehensive Plan.

### Implementation

### City of Holly Springs Comprehensive Plan

The City of Holly Springs revised its Comprehensive Plan in March 2013 to include the following components under the transportation section:

- Adopt a Complete Streets Policy
- Seek to establish a multimodal path system
- Pursue the rehabilitation of existing sidewalk system at the rate of 2,000 feet of sidewalk per year
- The city to facilitate the movement of students related to its secondary and high education facilities
- Include standards for bike racks in private and public developments

In the public facilities section, the following components were added:

- Develop new park facilities in six locations
- Seek to develop a greenway system based upon location outlined in the Future Land Use Map

In addition, the City of Holly Springs committed efforts to expand recreation and environmental amenities that supported community health, such as new and expanded parks and greenways systems and the addition and renovation of sidewalks.

### City of Olive Branch Comprehensive Plan

The HKHC partnership worked with city officials to update the City of Olive Branch's Comprehensive Plan that originally only included a one-sentence section on active living. After planning, an expanded plan that included goals and recommendations for parks, open spaces, and recreation, was adopted in May 2012.

### **Population Reach**

The revised Comprehensive Plans targeted residents in the City of Holly Springs and the City of Olive Branch.

### **ACTIVE TRANSPORTATION**

The partnership worked to increase active transportation opportunities in the tri-county area through passing Complete Streets Policies, creating design standards for sidewalks, and installing bike lanes and sidewalks.

### Policy, Practice, and Environmental Changes

The following policy, practice, and environmental changes occurred as a result of HKHC:

### **DeSoto County**

- The City of Hernando collaborated with HKHC and Get A Life! to pass a Complete Streets Resolution in April 2010.
- A Helmet Policy was passed in 2012 for youth under the age of 18 years.
- In 2012, new bike lanes were constructed in the City of Hernando to make biking safer.
- In 2013, new sidewalks were installed connecting the east and west sides of the city.

### **Marshall County**

- The Town of Byhalia passed a Complete Streets Resolution in December 2011.
- In 2013, the City of Holly Springs passed a Complete Streets Policy.
- Design standards were created for sidewalks in Byhalia and Holly Springs.

### **Tate County**

- The City of Senatobia passed a Complete Streets and Sidewalk Ordinance for new development.
- In 2012, a Helmet Policy was passed for youth under the age of 18 years.
- A new school walking trail was installed in September 2013 at Senatobia Middle School with funds raised by community leaders and the Parent Teacher Organization.

In addition to the changes mentioned above, the Mississippi Department of Transportation (MDOT) adopted a bicycle/pedestrian resolution on March 2011. Through the resolution, MDOT planned to



Photo provided by Transtria LLC

implement a policy considering the development of multi-purpose trails and wide-paved shoulders during planning of new highways and re-construction of existing highways. The resolution complemented work supported by the HKHC partnership.

For additional information see Figure 3: Active Transportation Infographic.

### **Complementary Programs/Promotions**

The partnership planned and implemented several events to promote active transportation. In October 2011, more than 600 students and faculty from a local elementary school in DeSoto County participated in Walk to School Day. The City of Hernando developed a Walking School Bus for Oak Grove Central Elementary. In addition, the partnership's Safe Routes to School efforts were recognized through the National Safe Routes to Schools Newsletter (July 2010).

### **Implementation**

### Complete Streets Resolutions

Complete Streets Policies or Resolutions were passed in all three of the tri-county areas.

In April 2010, the City of Hernando passed a Complete Streets Policy with the support of HKHC partners and

Get A Life! The work will include improvements such as marking bike lanes, repairing sidewalks, installing biking signs and routes, and marking crosswalks. The partnership provided \$5,000 to the City of Hernando to assist with the implementation process of the policy.

In December 2011, the Town of Byhalia passed a Complete Streets Policy at a board meeting with the assistance of the HKHC Project Director and Project Coordinator.

The City of Holly Springs passed a Complete Streets Policy in March 2013, along with the passing of the city's new Comprehensive Plan. The plan included the following language: increasing walking and bicycling offers the potential for improved health, reduced traffic congestion, a more livable community, and more efficient use of road space and resources; the City of Holly Springs General Development Plan calls for the development of a pedestrian friendly community with sidewalks and bike paths; the City of Holly Springs will implement policies and procedures with construction, reconstruction, or other changes to transportation facilities to support the creation of Complete Streets including capital improvements, re-channelization projects, and major maintenance, recognizing that all streets are different.

### Bike Lanes and Sidewalks

The HKHC partnership collaborated with the City of Hernando and the City of Olive Branch to work on several bicycle and pedestrian improvements.

The partnership supported Hernando in designating new bike lanes. Meetings were held with bikers and local residents to gain input on where the new lanes should be installed. In 2010, The City of Olive Branch was awarded \$128,000 from the American Recovery and Reinvestment Act funding to install bike lanes along a 1.3-mile stretch of road. The City of Southaven received a \$150,000 grant from the Transportation Alternative Program for new sidewalks and bike lanes.

In 2012, the partnership worked with the Mississippi Department of Transportation to sign an agreement that connected the east and west sides of Hernando through the use of an underpass tunnel. The tunnel ran under Interstate 55 and allowed pedestrians and bicyclists to travel from one part of the city to another. In 2013, the City of Hernando provided funds (\$15,000) to install a new stretch of sidewalk that would allow safer travel. The sidewalk was 400 feet long and 5 feet wide, covering a total of 2,000 square feet.

In the future, the City of Hernando plans to add curb cuts to sidewalks that comply with the Americans with Disabilities Act (ADA). DC Greenways plans to purchase new bike lane signs for Olive Branch.

### **Helmet Law**

In May 2012, DeSoto and Tate Counties passed the helmet law for youth under 18 years of age. The cities also provided free helmets to youth, if needed.

### Safe Routes to School

Representatives from the partnership attended meetings for Safe Routes to School (SRTS) and provided information to each community within the tri-county region. The partnership offered assistance if a community was interested in pursuing an SRTS grant.

The City of Senatobia received a \$238,000 SRTS grant from Missouri Department of Transportation for new sidewalks as well as reconstruction of several existing sidewalks. The city matched 20%. The installation was scheduled to begin in the fall of 2012. The city also planned to install lights and reflectors on the school crosswalks.

In September 2013, a community walking track was installed at Senatobia Middle School with funds raised by the community and funds from the Community Foundation of Northwest Mississippi.

### **Population Reach**

The active transportation initiatives targeted residents of DeSoto, Marshall, and Tate Counties.

**Figure 3: Active Transportation Infographic** 

DESOTO, MARSHALL, TATE, MISS



Community Based Organizations

City and County Government

Policy and Advocacy Agencies



Policy Checklist/Document Review



Focus Groups

Charrettes

Healthy Congregations Survey



\$531,000 Revenue Generated





Byhalia Health Fest

Bike Brigade

Walk with the Mayor

Project Fit America Walk to School Day and Walking School Bus

Biggest Loser Contest



# ADVOCACY

Your Town-Your Health Seminar

Charrettes

GIS Maps

Elected Officials Active Living Training

# POLICY&PRACTICE

POLICY Byhalia

Senatobia

→ Hernando

Holly Springs

### HELMET POLICY

Tate County DeSoto County

bike lanes in Hernando NFW sidewalks in Hernando walking trail at Senatobia Middle School

Mississippi Department of City of Senatobia SRTS Program Transportation



### DESIGN STANDARDS

FOR ALL NEW SIDEWALKS Byhalia Holly Springs



# IVIRONMENT

### **Challenges**

The HKHC partnership and its partners experienced the following challenges while working to improve active transportation across the tri-county area:

- Cities tried to improve sidewalks in the past, but oftentimes encountered cost barriers.
- The City of Senatobia passed a Complete Streets Ordinance and Sidewalk Ordinance for new development; however, the town was old and new development was not happening.
- A bus route could be eliminated due to funds being used to create a pedestrian and bicycle pathway in the City of Hernando.

### **Sustainability**

The partnership plans to continue to collaborate with DeSoto, Marshall, and Tate Counties as they improve active transportation. Some projects will move forward with funding received during HKHC, such as the SRTS grant in Senatobia.

### **GREENWAYS/BLUEWAYS**

The partnership worked to expand and connect greenways/trails and blueways along the Coldwater River in the tri-county area.

### Policy, Practice, and Environmental Changes

The following policy, practice, and environmental changes occurred as a result of HKHC:

- In November 2011, the DeSoto County Greenways expanded to Bass Landing Park with a bike trail connection.
- In June 2011, a 4.7-mile mountain bike trail was established at Bayou Point as the result of a partnership between the Corps of Engineers and the Mid-South Trails Association.
- DeSoto County added amenities, including benches and landscaping, to the greenways in April 2012.
- In 2012, the Johnson Creek Trail was established as the first leg of the greenways project.
- In 2012, rules and regulations were created for the DeSoto County Greenways.
- Design and construction of a few trailhead and trails at the Crockrum Civic Center.
- DeSoto County Greenways joined with Tunica County to develop the Great River Road Bike Trail in 2011.

### **Complementary Programs/Promotions**

The partnership helped to promote the greenways and blueways in the community. In September 2010, a hike was held during the DeSoto County Health and Fitness Day. A Coldwater River Canoe and Kayak Trail website was developed in 2012. A map of the Coldwater River Trail was created and included on the new website. A Greenway Summit, sponsored by the River Partnership of Community Foundations, was held to inform elected officials, board of supervisors, and other interested groups about the greenway project.

Future activities along the blueway will be planned by the new DeSoto County Parks and Greenways District.

### **Implementation**

### **Greenways**

The partnership hoped to connect greenways throughout the three counties starting in Desoto County near the Mississippi River (Figure 4). In 2011, the DeSoto County Greenways expanded to Bass Landing Park. DeSoto County Greenways signed a Memorandum of Understanding with the US Army Corps of Engineers to incorporate the Coldwater River Nature Trail as part of the existing countywide greenway system. The Coldwater River Nature Trail consisted of two hiking trails, one three miles in length and the other five miles in length. The Johnson Creek Trail was paved and a 4.7-mile bike trail was constructed at Bayou Point. Lastly, amenities (e.g., benches, landscaping) were added in April 2012 to the new section of greenways.

The DeSoto County Greenways adopted a set of rules and regulations in 2012 pertaining to the trails. The rules included permits, protection, easements, and postings.

Figure 4: DeSoto County Greenways Map (dashboard)



In 2011, DeSoto County and local municipal officials received \$2.26 million from the Mississippi Department of

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Transportation for greenway projects (e.g., pave Johnson Creek Trail). DeSoto County Greenways also received \$1.4 million from the Mississippi Transportation Commission to enhance portions of the greenway system. Entergy gave the Northwest Mississippi Land Trust \$100,000 for construction of the Johnson Creek Trail. Twenty acres were donated to the Northwest Mississippi Land Trust for the DeSoto County Greenways to be used as an outdoor classroom for a local high school. In December 2013, the DeSoto County Greenways received a \$50,000 grant from the Regional Greenprint Consortium to develop a comprehensive green resources plan and to update the DeSoto County Greenway Plan.

### Blueways

The partnership had also hoped to create blueways that would allow residents to use the local rivers such as Coldwater. The Coldwater River runs through each of the three counties. A community champion worked hard to make the Coldwater River a blueway with canoes, boats, and guided tours.

### **Population Reach**

The geenway and blueway initiative was targeted toward residents in Desoto, Marshall, and Tate Counties.

Photo provided by Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate counties.

### Challenges

The partnership and its partners encountered the following challenges:

- The community champion who led the blueways efforts passed away, halting the level of activity of the initiative.
- The cost for improving blueways was very high, impeding the partnership from moving forward.
- Flooding continued to be a major barrier to working on the blueways.

### **Sustainability**

The partnership plans to continue moving forward with the greenway and blueway initiative. Currently, partners are working to update the Greenway Plan and to apply for additional funding for greenway projects.

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### **PARKS AND PLAY SPACES**

To increase active living in the tri-county area, the partnership worked with local partners to improve park amenities and facilities.

### Policy, Practice, and Environmental Changes

The following policy, practice, and environmental changes occurred as a result of HKHC:

### **DeSoto County**

- The Hernando DeSoto County Park was expanded from 1.5 acres to 41 acres in 2012.
- New park signs were placed at ten DeSoto County parks.
- Amenities were installed at the Hernando DeSoto Park, including landscaped pathways, and benches.
- The DeSoto County Parks and Recreation District was established.
- In December 2012, members of the Southern Modern Woodmen Chapter planted ten trees at the Cockrum Community Park.



Photo provided by the Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate Counties

 New playground equipment (e.g., swings, slides, climbing wall) was installed at Lake Cormorant Community Park, Eudora Park, and Cockrum Community Park.

### Marshall County

- Improvements were made to the Byhalia Park walking trail.
- New play equipment was installed at Byhalia Park.

### **Tate County**

• In May 2012, a new park and playground were installed in the City of Senatobia through funding from KaBoom! and funds raised by the community.

### **Complementary Programs/Promotions**

The Hernando Parks and Recreation Department held healthy eating and active living sessions on Tuesday and Thursday nights in 2011. The sessions were free, and a \$100 cash prize was given to a weight loss winner. The parks department also held activities (e.g., 18-mile Ride and Seek, ballroom dancing lessons) and organized sports (e.g., men's basketball league) to get residents active.

### **Implementation**

### **DeSoto County**

In 2011, The Desoto County Board of Supervisors and the Yazoo Levee Board signed an agreement to turn over the Hernando DeSoto County Park (formally the Bass Landing Park) to the DeSoto County Greenways, which expanded the area from 1.5 acres to 41 acres. In collaboration with the County Parks Commission new signs were added to all ten of the DeSoto County Parks with funds from the parks maintenance budget.

The city of Hernando proposed the development of a new park, Renaissance Park. A public meeting was held to gather input from the community on what types of features were desired for the park. Consultants drew plans for the park in October 2012. The parks department is exploring grant options to obtain Americans with Disabilities Act (ADA) accessible playground equipment for the proposed Renaissance Park.

In December 2012, DeSoto County Supervisors allocated \$16,000 each for playground equipment (e.g., swings, slides, climbing wall) at Lake Cormorant Community Park, Cockrum Community Park, and Eudora

Park. During the same month, members of the Southern Modern Woodmen Chapter planted ten trees at the Cockrum Community Park.

The City of Hernando donated one acre of land for a skateboard in February 2012. Fundraising and applying for grants will begin. A skate park group is raising money using Facebook. A professional is drawing up plans for the park.

In addition, the City of Olive Branch received \$37,500 for a new trail in an existing park, and Hernando was awarded a \$600,000 Transportation Enhancement Grant to develop a linear park for pedestrians and cyclists.

### Parks and Recreation District

The DeSoto County Board of Supervisors developed a new Parks and Recreation District. The board appointed seven community members to be Park Commissioners, one of which was the HKHC Project Director. The commissioners met monthly to discuss budget, funding, and park improvements.

A formal public/private partnership agreement between DeSoto County Board of Supervisors, DeSoto County Economic Development Council, and the DeSoto County Parks Commissioners was signed as a cooperative agreement promoting and managing DeSoto County Parks and Greenways. The agreement allocated \$142,500 in 2013 for administrative costs associated with promoting and managing the parks and greenways.



Photo provided by Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate County.

### Marshall County

The walking track at the Byhalia City Park was expanded, and a new playground was built.

### **Tate County**

A group of residents and aldermen began initial discussions to build a new park in Senatobia. In 2011, a 30-acre area of land was donated to the Land Trust by a family in Senatobia. The Senatobia Parks and Recreation Committee applied to become a Playful City, USA. The partnership provided support to the group to become a Playful City, USA and to apply for a KaBoom! grant. The remaining funds needed for the play area was raised by the community. Senatobia received the designation of Playful City, USA, which allowed the community to obtain the \$25,000 grant to built a new playground in the park. The main donor for the playground was Sycamore Bank; therefore, the park was named Sycamore Park. More than 250 volunteers helped build the park in May 2012.

### **Population Reach**

The parks and play spaces initiative was targeted toward residents in DeSoto, Marshall, and Tate Counties.

### **Challenges**

The partnership identified the following challenges while improving parks and play spaces in the tri-county area:

- The City of Byhalia did not have a parks and recreation department or director, which would have been helpful during the process of expanding the park's walking track and constructing a new playground.
- The new Sycamore Park in Senatobia was built on land that was not close to residential areas or schools. There were no connections, such as bike lanes or trails to the downtown area.

### Sustainability

In June 2013, a formal agreement was signed between the DeSoto County Board of Supervisors, DeSoto County Economic Development Council, and the DeSoto County Parks Commissioners to promote and manage DeSoto County Parks and Greenways moving forward.

### **FARMERS' MARKETS**

The partnership collaborated with cities in the tri-county area to increase access to fresh produce through the development of farmers' markets, acceptance of Supplemental Nutrition Assistance Program (SNAP) vouchers, and certification of established farmers' markets.

### Policy, Practice, and Environmental Changes

The following policy, practice, and environmental changes occurred as a result of HKHC:

- In 2011, the City of Holly Springs established a farmers' market on its historic square.
- The City of Horn Lake developed a farmers' market in 2011, which was located on the parking lot of the city hall.
- In the summer of 2012, the City of Olive Branch established a market after receiving training from the partnership.
- The Tate County Farmers' Market and Hernando Farmers' Market received certification in 2013.
- Local markets were able to accept Supplemental Nutrition Assistance Program (SNAP) vouchers and Senior Vouchers as of December 2013.

### **Complementary Programs/Promotions**

The partnership collaborated with several local partners to plan and conduct events (e.g., grand opening) to promote the local farmers' markets.



Photo provided by Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate Counties.

The DeSoto County Community Health Council collaborated with the partnership to establish Fit and Fresh Saturdays for the Hernando Farmers' Market. Free activities were planned by volunteers during the market season (May 1-October 26). Targeted 45-minute activities were held for adults, seniors, and kids.

In 2012, the Hernando Farmers' Market distributed fresh produce to Catholic Social Services that worked with a low-income area in Hernando every Monday morning. The Mayor and Community Development Director/HKHC Project Coordinator delivered the produce.

The markets were also promoted through local resources, including the Mississippi Magazine (2010), DeSoto Magazine (2010), and Hernando Farmers' Market Newsletters.

### **Implementation**

HKHC assisted in the establishment of the Olive Branch Farmers' Market, Holly Springs Farmers' Market, and continuation of the Hernando and Tate County Farmers' Market through trainings and technical assistance.

### **Trainings**

A farmers' market training for food safety, marketing, and certification was held at the Gale Center in Hernando on March 7, 2011. The partnership, City of Hernando, and the Mississippi State University Extension Service sponsored the event. Approximately 70 participants came from Hernando, Holly Springs, Senatobia, Horn Lake, Clarksdale, Batesville, and other nearby communities. In February 2012, a farmers' market vendor training was held in Hernando. The training was sponsored by the partnership to certify vendors to sell at the market. Lastly, farmers' market trainings were held in the fall of 2012 with the community of Cockrum and the City of Olive Branch.

### Farmers' Market Development

In 2011, the City of Horn Lake developed a farmers' market on the parking lot of the city hall. The market was

FARMERS' MARKETS 23

open every Saturday from July through October. During the same year, the City of Holly Springs established a farmers' market on its historic square. The market operated through October, and about six vendors sold each time. The Holly Springs Main Street Association, in collaboration with the vendors, developed the guidelines for the market.

The Olive Branch Farmers' Market opened in the summer of 2012. The market operated from 2-6 PM every Friday. The number of vendors and clientele had increased since the market's opening.

Tate County developed a plan to make physical improvements, such as an expansion to the Tate County Farmers' Market, which was operated by the local Extension Service with support from the Corps of Engineers. The market set a grand opening for June 2012 to celebrate the 20-year-old market. The HKHC partnership collaborated with Tate County Farmers' Market to submit a grant to the US Department of Agriculture Farmers' Market Promotion for \$63,000 for marketing and to hire a part-time Farmers' Market Manager.

### Farmers' Market Certification

In 2011, the Hernando Farmers' Market received certification by the Mississippi Department of Agriculture and Commerce as part of the Mississippi Farmers' Market Certification Program in July 2010. The program was designed to identify and promote markets where fruits, vegetables, and plant materials were sold. The Hernando Market was open on Saturdays from 8 AM until 1 PM. The market was recertified in July of 2013.

The Tate County Farmers' Market also received certification from the Mississippi Department of Agriculture and Commerce as part of the Farmers' Market Program.

### **Nutrition Assistance**

The partnership assisted Hernando and Tate Counties with distribution of Senior Vouchers through the US Department of Agriculture. Electronic Benefit Transfer (EBT) was available at some of the markets to accept Supplemental Nutrition Assistance Program (SNAP) vouchers.

### **Population Reach**

The farmers' market initiative targeted residents in the tri-county area, although the Hernando Farmers' Market also served residents in the surrounding communities (e.g., Tunica, Lafayette, West Tennessee).

### **Challenges**

The partnership identified a few challenges with the farmers' market initiative:

"I bet we haven't had two people come to our market with EBT cards and we've been offering it for two years..." - Staff

- Although EBT was accepted at markets the participation was extremely low.
- The partnership was unable to get Double Value coupons accepted at the market; however, several
  markets were able to accept Supplemental Nutrition Assistance Program (SNAP) vouchers and Senior
  Vouchers.
- Markets were often competing with each other for vendors and consumers, especially those that operated on the same day.
- It was difficult getting the word out to potential vendors and consumers. For example, the Tate County Farmers' Market, which had been open 20 years, struggled to attract new and consistent vendors.

### **Sustainability**

The partnership plans to continue supporting the new farmers' markets established in Holly Springs, Horn Lake, and Olive Branch, in addition to the Hernando and Tate Counties markets that had previously existed.

FARMERS' MARKETS

### OTHER HEALTHY EATING STRATEGIES

To increase access to healthy foods in the tri-county area, the partnership supported several community initiatives including a regional food hub, learning gardens, an organic farm, mobile food pantry, and community health partner awards.

### Policy, Practice, and Environmental Changes

The following policy, practice, and environmental changes occurred with the support of the HKHC partnership:

- In 2012, the Mid-South Food Bank opened a mobile food pantry that traveled to DeSoto and Marshall Counties.
- A regional food hub, 4Rivers Fresh Foods, was established and launched in July 2013.
- A local master gardener and volunteer assisted DeSoto County elementary schools with the development of 14 raised gardens.
- In Marshall County, Byhalia Middle School, with assistance from the Byhalia Garden Club, established ten raised beds.



Photo provided by Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties

- There were four new community gardens developed in DeSoto County (Walls Library Community Garden, Horn Lake, and Hernando) and one in Tate County (City of Coldwater's Community Garden).
- River City Management Group, an HKHC partner, developed an organic farm in Marshall County to serve local restaurants.

### **Complementary Programs/Promotions**

### Community Health Partner Program

In 2012, the partnership created a Community Health Partner Program for local restaurants as an incentive for providing healthy options. Interested restaurants were required to complete an application that would determine if healthy options were provided. An award and window decal were presented to restaurants that qualified. The application was made available to all restaurants in the eight counties served by the Community Foundation of Northwest Mississippi. The first award for providing healthy options was received in October 2012 by Buon Cibo, which was a restaurant in Hernando. Then in December 2012, Hazel's Family Restaurant in Olive Branch and the Memphis Street Café in Hernando received awards. As of December 2013, a total of six applications were received, and four had been awarded. Feedback was offered to those who did not qualify.

### Gardens

In 2011, eleven schools in DeSoto County participated in a Celebration of Seeds, which was the planting of herbs and vegetables on school property. Participants were educated on team building, responsibility, nutrition, and gardening. In addition, the partnership provided each of the counties with resources and training for starting a community garden.

### **Implementation**

### Regional Food Hub

The HKHC Project Director met with the Mississippi Commissioner of Agriculture and Commerce in August of 2012 to discuss the idea of a Regional Food Hub. The discussions and work of the Regional Health Council and HKHC led to the establishment of 4Rivers Fresh Foods. The regional food hub, established in July 2013, served the DeSoto County area, but will eventually serve all ten counties that are a part of the Community

Foundation of Northwest Mississippi network. Initial funding (\$30,000) for Phase One of the hub came from the Foundation and its Endowment for the Future of Northwest Mississippi. Partners that provided monetary or in-kind support included Stern Cardiovascular Foundation, Red Square Fish and Meat Market, DeSoto Athletic Club, and Fillin Station Grille. Ten producers were a part of the food hub.

Partners that planned the hub decided to purchase Biz Pro, an online organizational website that was used by other food hubs. The site allowed consumers to go online to see who the producers or farmers were and learn about their products. Customers were also able to place orders through the site. A part-time manager was hired for the hub, and a business plan was developed. Volunteers helped with distribution and pick-ups.

The boxes of produce were sold for \$15 (small) or \$25 (large), and the hub was able to accept Supplemental Nutrition Assistance Program (SNAP) benefits. As of October 2013, there were about 75 subscribers.

### Gardens

The HKHC partnership supported the development of new gardens in DeSoto, Tate, and Marshall Counties. The partnership assisted the DeSoto County Master Gardeners in establishing a garden teaching tool and demonstration garden in 2013. The partnership assisted the DeSoto County Praise Garden for two years as a project of Heartland Church, City of Horn Lake, and the Chamber of Commerce. In 2012, the Walls Library community garden was established with the support of HKHC. In addition, a total of 14 raised garden beds were developed in after-school programs in DeSoto County elementary schools.

The town of Coldwater in Tate County developed a community garden in 2012 on US Army Corps of Engineers land. Produce grown at the garden included tomatoes, butter beans, string beans, squash, cucumbers, and sweet potatoes. Community members were allowed to pick produce on certain days for no charge.

In Marshall County, Byhalia Middle School, with assistance from the Byhalia Garden Club, established ten raised beds. In 2013, the Bluejays Junior Garden Club was responsible for planning, planting, maintaining, and harvesting the gardens. Students planned to sell their harvest at a local farmers' market.

### Mobile Food Pantry

Once a month, local residents in DeSoto and Marshall Counties received fresh produce and other staples from the Mid-South Mobile Food Pantry. Qualified recipients came to a designated meeting place to receive at least 40 pounds of food, including fresh produce. Recipients also received education and health screenings.

The Community Foundation of Northwest Mississippi funded the pantry in Marshall County. United Way provided funding for the pantry in DeSoto County.

### Organic Farm

HKHC partner River City Management Group developed an organic farm in 2010 to serve local restaurants owned by the company.

### **Population Reach and Impact**

The HKHC healthy eating initiatives targeted residents of DeSoto, Marshall, and Tate Counties, although some activities were directed toward certain areas or neighborhoods.

The mobile food distribution in Marshall County assisted 2,012 low-income households since 2012 and provided over 100,236 pounds of food since February 2013.

### Sustainability

The food hub will continue to operate with funding from the Community Foundation of Northwest Mississippi. Eventually, the producers of the food hub would like to become an LLC, for-profit business.

The partnership, along with the Community Foundation of Northwest Mississippi, plans to continue supporting the healthy eating initiatives in the tri-county area.

### SUSTAINABILITY OF THE PARTNERSHIP AND INITIATIVE

The HKHC partnership's work on healthy eating and active living will continue through the Regional Health Council. The council is funded through a W.K. Kellogg Foundation grant (\$350,000). The Foundation hopes that the development of an Endowment for the Future of Northwest Mississippi will help to continue childhood obesity prevention work.

The lead agency and partnership provided training and technical assistance throughout the duration of the HKHC grant to help each community build the skills and capacity needed to continue the initiative moving forward.

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### APPENDIX A: EVALUATION LOGIC MODEL

In the first year of the grant, this evaluation logic model identified short-term, intermediate, and long-term community and system changes for a comprehensive evaluation to demonstrate the impact of the strategies to be implemented in the community. This model provided a basis for the evaluation team to collaborate with the Healthy Kids, Healthy Communities of DeSoto, Marshall, Tate Counties partnership to understand and prioritize opportunities for the evaluation. Because the logic model was created at the outset, it does not necessarily reflect the four years of activities implemented by the partnership (i.e., the workplans were revised on at least an annual basis).

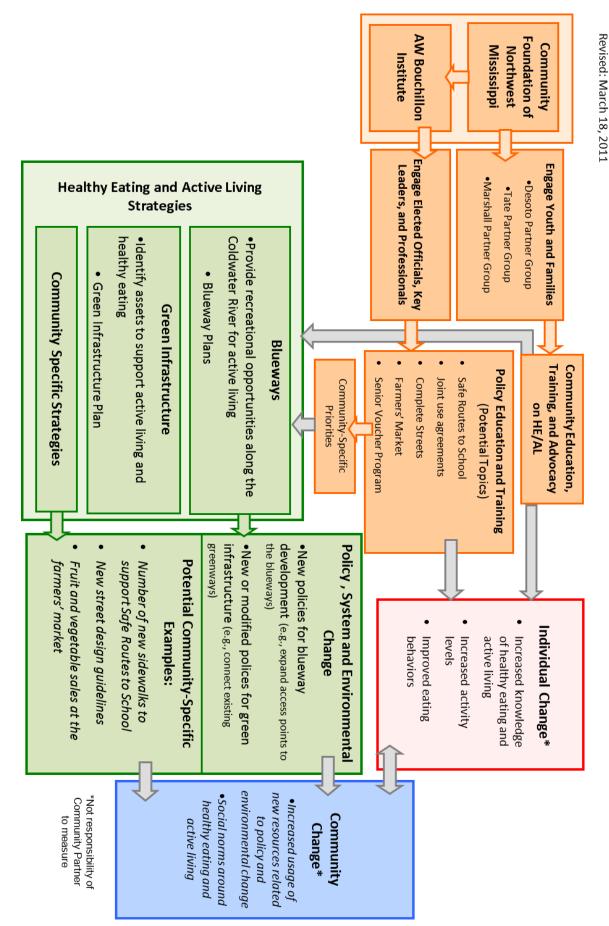
The healthy eating and active living strategies of Healthy Kids, Healthy Communities of the DeSoto, Marshall, and Tate Counties partnership included:

- Comprehensive Plans: The Cities of Olive Branch and Holly Springs revised and expanded their Comprehensive Plans to include recommendations for active living.
- Active Transportation: The cities of Holly Springs, Byhalia, Senatobia, and Hernando adopted a Complete Streets Policy. Design standards were created for sidewalks in Byhalia and Holly Springs, and a grant was received from the Mississippi Department of Transportation to upgrade sidewalks in Senatobia. Since 2010, Hernando added bike lanes and a new stretch of sidewalk that connected the east and west sides of the city. In addition, an agreement with the Mississippi Department of Transportation and Hernando was signed for the use of an underpass to connect the city, and a new walking track was installed at Senatobia Middle School.
- Greenways/Blueways: In 2011, DeSoto County and local municipal officials received \$2.26 million from
  the Mississippi Department of Transportation for greenway projects. The projects included pavement of
  the Johnson Creek trail; an extension of the Bass Landing Park trail; design and construction of a new
  trailhead and trails at the Crockrum Civic Center; construction of an asphalt bicycle path/walking trail from
  the Central Park. In 2012, a set of rules and regulations was created for the DeSoto County Greenways. A
  comprehensive update of the Greenways Plan is currently underway and will be completed after
  December 14, 2013.
- Parks and Play Spaces: To increase active living in the tri-county area, several environmental changes
  were made. New play equipment was installed at parks in DeSoto, Marshall, and Tate Counties. New
  signs identifying the park name were placed in ten DeSoto County parks, and improvements were made
  to the walking trail in Byhalia. Land donations were received to develop a new park in Senatobia, expand
  a park in DeSoto County, and to build a skate park in the City of Hernando. In addition, a DeSoto County
  Parks and Recreation District was established.
- Farmers' Markets: The City of Holly Springs and City of Olive Branch established farmers' markets. Two
  existing markets, Tate County Farmers' Market and Hernando Farmers' market received certification from
  the Mississippi Farmers' Market Certification Program. In 2013, the markets were able to start accepting
  Supplemental Nutrition Assistance Program (SNAP) and Senior Vouchers.
- Other Healthy Eating Strategies: To increase access to healthy foods in the tri-county area, the partnership supported several community initiatives including the creation of a regional food hub, development of learning gardens, establishment of a mobile food pantry, and providing community health partner awards for healthy restaurants.

### APPENDIX A: EVALUATION LOGIC MODEL

# Desoto/Marshall/Tate Counties, MS HKHC Logic Model

Community Foundation of Northwest Mississippi (CFNM)



### APPENDIX B: PARTNERSHIP AND COMMUNITY CAPACITY SURVEY RESULTS

To enhance understanding of the capacity of each community partnership, an online survey was conducted with project staff and key partners involved with Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate Counties during the final year of the grant. Partnership capacity involves the ability of communities to identify, mobilize, and address social and public health problems.<sup>1-3</sup>

### Methods

Modeled after earlier work from the Prevention Research Centers and the Evaluation of Active Living by Design,<sup>4</sup> an 82-item partnership capacity survey solicited perspectives of the members of the Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate Counties partnership on the structure and function of the partnership. The survey questions assisted evaluators in identifying characteristics of the partnership, its leadership, and its relationship to the broader community.

Questions addressed respondents' understanding of Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate Counties in the following areas: partnership capacity and functioning, purpose of partnership, leadership, partnership structure, relationship with partners, partner capacity, political influence of partnership, and perceptions of community members. Participants completed the survey online and rated each item using a 4-point Likert-type scale (strongly agree to strongly disagree). Responses were used to reflect partnership structure (e.g., new partners, committees) and function (e.g., processes for decision making, leadership in the community). The partnership survey topics included the following: the partnership's goals are clearly defined, partners have input into decisions made by the partnership, the leadership thinks it is important to involve the community, the partnership has access to enough space to conduct daily tasks, and the partnership faces opposition in the community it serves. The survey was open between September 2013 and December 2013 and was translated into Spanish to increase respondent participation in predominantly Hispanic/Latino communities.

To assess validity of the survey, evaluators used SPSS to perform factor analysis, using principal component analysis with Varimax with Kaiser Normalization (Eigenvalue >1). Evaluators identified 15 components or factors with a range of 1-11 items loading onto each factor, using a value of 0.4 as a minimum threshold for factor loadings for each latent construct (i.e., component or factor) in the rotated component matrix.

Survey data were imported into a database, where items were queried and grouped into the constructs identified through factor analysis. Responses to statements within each construct were summarized using weighted averages. Evaluators excluded sites with ten or fewer respondents from individual site analyses but included them in the final cross-site analysis.

### **Findings**

Ten of the project staff and key partners involved with Healthy Kids, Healthy Communities of Desoto, Marshall, and Tate Counties completed the survey.

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### Partnership and Community Capacity Survey Respondent Summary Community Partnership Desoto/Marshall/Tate Cou Respondents (n= 10 ) Respondent Characteristics Gender Indentified Race/Ethnicity Identified Role Female American Indian Hispanic or Latino O Community Partnership Lead 2 Male 3 0 or Alaskan Native Not Hispanic or 0 Community Partnership Partner 3 No response Asian Latino 0 Community Leader 2 Don't know/ Unsure 0 White 10 Age Range Community Member ethnicity 4 African American/ Refused to identify 0 18-25 0 Public Official 1 Black ethnicity 26-45 Pacific Islander/ Other ethnicity Other role 0 1 0 Native Hawaiian 46-65 7 66+ No response Type of Affiliated Organization Faith- or Community Based Organization 10.0% (1)1 School (district, elementary, middle, high) 10.0% 1 (2)**1** Local Government Agency (city, county) 3 30.0% (3)**2 3** University or Research/Evaluation Organization 0 0.0% (4)□6 0.0% Neighborhood Organization O (5)10 Advocacy Organization 10.0% (6)1 Health Care Organization 0 0.0% (7)Child Care or Afterschool Organization 0.0% 0 (8)4 40.0% (10)No response 0.0% (999)Partnership and Community Capacity Data Provision of required space and equipment Participants provided level of agreement to statements indicating the community partnership provided adequate space, equipment, and supplies to conduct business and meetings. Strongly disagree Strongly agree 35.56% 0.00% Agree 41.11% 22.22% I don't know 0.00% No response Disagree 1.11% Partner skills and communication Participants provided level of agreement to statements supporting partner skills and ability to communicate with and engage multiple types of people (e.g., public officials, community leaders). Strongly agree 38.18% Strongly disagree 0.00% 50.00% Agree I don't know 1.82% 0.00% Disagree 10.00% No response

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**Community Partnership** 

### Community and community members

Participants provided level of agreement to statements suggesting the communities are good places to live, and that community members are helpful, can be trusted, and share the same goals or values.

Strongly agree	28.18%	Strongly disagree	0.00%
Agree	60.00%	I don't know	8.18%
Disagree	0.00%	No response	3.64%

### Partner and community involvement

Participants provided level of agreement to statements indicating partners and the community were actively involved in partnership activities, meetings, and decisions.

Strongly agree	40.00%	Strongly disagree	0.00%
Agree	46.00%	I don't know	4.00%
Disagree	0.00%	No response	10.00%

### Partner and partnership development

Participants provided level of agreement to statements suggesting the partnership and its partners seek ways learn, develop, and enhance sustainability.

Strongly agree	32.00%	Strongly disagree	0.00%
Agree	58.00%	I don't know	6.00%
Disagree	0.00%	No response	4.00%

### Partnership structure, organization, and goals

Participants provided level of agreement to statements suggesting partnership has processes in place related to structure, meeting organization, and goals.

Strongly agree	31.67%	Strongly disagree	0.00%
Agree	55.00%	I don't know	13.33%
Disagree	0.00%	No response	0.00%

### Relationship between partners and leadership

Participants provided level of agreement to statements indicating the leadership and partners trust and support each other.

Strongly agree	50.00%	Strongly disagree	0.00%
Agree	45.00%	I don't know	2.50%
Disagree	0.00%	No response	2.50%

### Community members intervene

Participants provided level of agreement to statements indicating that community members can be counted on intervene in instances where someone is disrespectful, disruptive, or harmful to another community member.

Strongly agree	13.33%	Strongly disagree	10.00%
Agree	43.33%	I don't know	13.33%
Disagree	16.67%	No response	3.33%

### Leadership motivation

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### **Community Partnership**

l	Participants provided level of agreement to statements suggesting the leadership is motivated to help others, work
l	with diverse groups, shows compassion, and follows through.

Strongly agree	65.00%	Strongly disagree	0.00%
Agree	35.00%	I don't know	0.00%
Disagree	0.00%	No response	0.00%

### Community member and partner participation

Participants provided level of agreement to statements indicating that community members and partners have opportunities to serve in leadership roles and participate in group decision-making.

Strongly agree	60.00%	Strongly disagree	0.00%
Agree	36.67%	I don't know	3.33%
Disagree	0.00%	No response	0.00%

### Involvement in other communities

Participants provided level of agreement to statements suggesting leadership and partners are involved in other communities and various community groups, and help communities work together.

Strongly agree	45.00%	Strongly disagree	0.00%
Agree	42.50%	I don't know	2.50%
Disagree	0.00%	No response	10.00%

### Community member willingness to assist

Participants provided level of agreement to statements suggesting most community members help neighbors and solve community problems. It also suggested some community members may take advantage of others.

Strongly agree	42.50%	Strongly disagree	0.00%
Agree	42.50%	I don't know	5.00%
Disagree	0.00%	No response	10.00%

### Core leadership and leadership skills

Participants provided level of agreement to statements suggesting the community partnership has a core leadership group organizing efforts, and that leaders have the skills to help the partnership achieve its goals.

Strongly agree	60.00%	Strongly disagree	0.00%
Agree	40.00%	I don't know	0.00%
Disagree	0.00%	No response	0.00%

### Partner motivation

Participants provided level of agreement to statements indicating that partners won't give up in their efforts to create change and increase sense of community through the partnership.

Strongly agree	56.67%	Strongly disagree	0.00%
Agree	43.33%	I don't know	0.00%
Disagree	0.00%	No response	0.00%

### Visibility of leadership

Participants provided level of agreement to statements suggesting the leadership is known in the community and works with public officials.

Strongly agree	50.00%	Strongly disagree	0.00%
Agree	40.00%	I don't know	0.00%
Disagree	0.00%	No response	10.00%

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**Community Partnership** 

Landandi Partnersiin					
Leadership lives in the community					
Participants provided level of agreement to a statement indicating that at least one member of the leadership resides within the community.					
	Strongly agree	70.00%	Strongly disagree	0.00%	
	Agree	30.00%	I don't know	0.00%	
	Disagree	0.00%	No response	0.00%	
Leadership has a respected role in the community					
Participants provided level of agreement to a statement that suggests at least one member of the leadership team has a respected role in the community.					
	Strongly agree	60.00%	Strongly disagree	0.00%	
	Agree	40.00%	I don't know	0.00%	
	Disagree	0.00%	No response	0.00%	
Community partnership initiatives are known					
Participants provided level of agreement to a statement suggesting that community members are aware of the partnership's initiatives and activities.					
	Strongly agree	30.00%	Strongly disagree	0.00%	
	Agree	50.00%	I don't know	10.00%	
	Disagree	0.00%	No response	10.00%	
Division of resource	es				
Participants provided level of agreement to a statements suggesting that resources are equally divided among different community groups (e.g., racial/ethnic, lower income).					
unierent community g	Strongly agree	60.00%	Strongly disagree	0.00%	
	Strongly agree	00.0076	Strongly disagree	0.0070	

40.00%

0.00%

I don't know

No response

0.00%

0.00%

Agree

Disagree

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### **APPENDIX C: PARTNER LIST**

Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties			
Organization/Institution	Partner		
Business/Industry/Commercial	Baptist-Memorial Blue Cross, Blue Shield Cedar Hill Farms Entergy Looney Ricks Kiss Mid-South Trails Association		
Colleges/Universities	Mississippi State University Extension Service School of Food Science, Nutrition and Health Promotion Rust College		
Foundation	Aaron E. Henry Community Health Services Center, Inc. Community Foundation of Northwest Mississippi Alliance for a Healthier Generation		
Government Organizations	City of Hernando City of Holly Springs City of Horn Lake City of Olive Branch City of Senatobia DeSoto County Board of Supervisors DeSoto County Greenways and Parks Hernando Parks and Recreation Department Mississippi Department of Transportation Mississippi State Department of Health Mississippi State Department of Agriculture and Commerce Town of Byhalia		
Other Community-Based Organizations	A.W. Bouchillon Institute for Community Planning Gale Community Center Healthy Congregation Main Street Association in Holly Springs Marshall County Health Council Mid-South Food Bank North Mississippi Land Trust		
Other Youth Organization	Olive Branch YMCA		
Policy/Advocacy Organizations	Hernando Bicycle Club National Audobon Society (MS)		
Schools	Byhalia High School DeSoto County Schools		

## APPENDIX D: SOURCES AND AMOUNTS OF FUNDING LEVERAGED

Sources of Revenue			
Community Partnership Desoto/Mars	hall/Tate Counties		
Resource source	Amount	Status	
Business Ye	ar		
Matching funds			
20	10	Annual total	\$1,000.00
	\$1,000.00	Accrued	
20	11	Annual total	\$1,000.00
	\$1,000.00	Accrued	
Sum of revenue generated by resource so	urce \$2,000.00		
Individual/private donor Ye	ar		
Matching funds			
20	10	Annual total	\$1,755.00
	\$1,755.00	Accrued	
20	11	Annual total	\$1,755.00
	\$1,755.00	Accrued	
Other			
20	13	Annual total	\$800.00
	\$300.00	Accrued	
	\$500.00	Accrued	
Sum of revenue generated by resource so	urce \$4,310.00		
Local government Ye	ar		
Matching funds			
20	10	Annual total	\$5,000.00
	\$5,000.00	Accrued	
20	11	Annual total	\$7,000.00
	\$7,000.00	Accrued	
Other			
20	12	Annual total	\$182,250.00
	\$166,250.00	Accrued	
	\$16,000.00	Accrued	
20	13	Annual total	\$142,500.00
	\$142,500.00	Accrued	
Sum of revenue generated by resource so	urce \$336,750.00		

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# HEALTHY KIDS, HEALTHY COMMUNITIES OF DESOTO, MARSHALL, AND TATE COUNTIES

## APPENDIX D: SOURCES AND AMOUNTS OF FUNDING LEVERAGED

Community Partnership Desoto	o/Marshall/Ta	ate Counties	
Resource source		Amount	Status
State government	Year		
Other			
	2012		Annual total \$10,000.00
		\$10,000.00	Accrued
	2013		Annual total \$238,000.00
		\$238,000.00	Accrued
Sum of revenue generated by resou	irce source	\$248,000.00	
Foundation	Year		
HKHC funds			
	2009		Annual total \$76,858.00
		\$2,029.00	Accrued
		\$10,182.00	Accrued
		\$24,488.00	Accrued
		\$40,159.00	Accrued
	2010		Annual total \$106,054.00
		\$17,379.00	Accrued
		\$2,029.00	Accrued
		\$42,146.00	Accrued
		\$44,500.00	Accrued
	2011		Annual total \$16,376.00
		\$16,376.00	Accrued
	2012		Annual total \$95,678.00
		\$22,830.00	Accrued
		\$23,665.00	Accrued
		\$42,146.00	Accrued
		\$7,037.00	Accrued
Matching funds			
	2010		Annual total \$1,500.00
		\$1,500.00	Accrued
	2011		Annual total \$126,500.00
		\$125,000.00	Accrued
		\$1,500.00	Accrued

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## APPENDIX D: SOURCES AND AMOUNTS OF FUNDING LEVERAGED

Community Partnership	Desoto/Marshall/Tate	Counties		
Resource source		Amount	Status	
	2012		Annual total	\$164,328.00
		\$1,500.00	Accrued	
		\$125,000.00	Accrued	
		\$33,328.00	Accrued	
		\$4,500.00	Accrued	
	2013		Annual total	\$155,164.00
		\$13,500.00	Accrued	
		\$125,000.00	Accrued	
		\$16,664.00	Accrued	
Sum of revenue generated I	by resource source	\$742,458.00		
Non-profit organization	Year			
Matching fu	nds			
	2011		Annual total	\$5,000.00
		\$2,000.00	Accrued	
		\$3,000.00	Accrued	
	2012		Annual total	\$5,000.00
		\$5,000.00	Accrued	
Other				
	2011		Annual total	\$37,768.00
		\$37,768.00	Accrued	
	2012		Annual total	\$8,000.00
		\$8,000.00	Accrued	
	2013		Annual total	\$45,000.00
		\$30,000.00	Accrued	
		\$15,000.00	Accrued	
Sum of revenue generated I	by resource source	\$100,768.00		
School	Year			
Matching fu				
	2010		Annual total	\$7,000.00
		\$1,000.00	Accrued	
		\$1,000.00	Accrued	
		\$5,000.00	Accrued	

Wednesday, April 09, 2014

# HEALTHY KIDS, HEALTHY COMMUNITIES OF DESOTO, MARSHALL, AND TATE COUNTIES

## APPENDIX D: SOURCES AND AMOUNTS OF FUNDING LEVERAGED

Community Partnership De	soto/Marshall/T	ate Counties	
Resource source			
Resource source		Amount	Status
	2011		Annual total \$3,000.00
		\$3,000.00	Accrued
Sum of revenue generated by re	source source	\$10,000.00	
Other	Year		
Matching funds			
	2010		Annual total \$30,000.00
		\$30,000.00	Accrued
	2011		Annual total \$30,000.00
		\$30,000.00	Accrued
	2012		Annual total \$30,000.00
		\$30,000.00	Accrued
	2013		Annual total \$30,000.00
		\$30,000.00	Accrued
Other			
	2013		Annual total \$50,000.00
		\$50,000.00	Accrued
Sum of revenue generated by re	source source	\$170,000.00	
Grand Total			\$1,614,286.00

# HEALTHY KIDS, HEALTHY COMMUNITIES OF DESOTO, MARSHALL, AND TATE COUNTIES

#### APPENDICES E & F: ENVIRONMENTAL AUDIT REPORTS

- Appendix E: Farmers Market Environmental Audit Report
- Appendix F: Parks and Play Spaces Environmental Audit Report

APPENDICES 41

# Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties

# Farmers' Market Environmental Audits

# **Summary Report**

Prepared by Transtria LLC



# **Table of Contents**

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#### **OVERVIEW**

DeSoto, Marshall, and Tate's Healthy Kids, Healthy Communities, one of 49 Healthy Kids, Healthy Communities partnerships, is part of a national program of the Robert Wood Johnson Foundation whose primary goal is to implement healthy eating and active living policy, system, and environment change initiatives. In order to better understand the impact of their work around farmers' markets, representatives of DeSoto-Marshall-Tate, collected environmental audit data in farmers' markets throughout DeSoto County. The following three farmers' markets were included in the assessment: Tate County Farmers' Market, Hernando Farmers' Market, and Olive Branch Farmers' Market.

#### **OVERALL RESULTS**

#### **Overall Market**

- Two of the three markets audited were open year-round, with Monday through Saturday morning and afternoon hours.
- All of the markets were open at least once a week during their respective operating seasons.
- All of the markets had legible signs to identify the market.
- None of the markets were located near a public transit stop.
- A third (66%) of the markets accepted WIC/SNAP/EBT.

#### **Vendor Characteristics**

- The number of vendors across the farmers' markets ranged from 11 to more than 40.
- At least 50% of the market vendors at each market sold fresh produce.
- All of the vendors had clean and well-organized displays.

#### **Product Signage and Pricing**

- The amount of products identified by name varied by market. Tate County had signage for most (51%-99%) of products, while Hernando and Olive Branch had some (1%-50%) signage.
- One of the markets had mostly (51%-99%) clear signs documenting product prices and the other two had some (1%-50%) signs documenting product prices.

#### Availability of nutrient-dense and minimally nutritious foods

- Tate County Farmers' Market had no canned or frozen fruits or vegetables.
- The market in Hernando had limited amounts (1-3 types) of canned fruits and canned vegetables. There were no frozen fruits and vegetables.
- The Olive Branch Farmers' Market had no canned fruits, but did have a variety (4+ types) of canned vegetables. The market had no frozen fruits or vegetables.
- Only one market offered high-fiber, whole grain foods. Healthier foods, such as lean meats, fish, and poultry were also offered at this market.
- Sweet foods (e.g., cookies, cakes) were offered at two of the markets.
- Milk was available at one market and included two types; 2% and whole/Vitamin D.

#### Availability and quality of fresh produce

 Auditors did not indicate the quality or quantity of fresh produce available at two of the markets.

- When reported, the quality of all fresh produce was "good" (top quality, good color, fresh, firm, and clean.
- When reported, the quantity of all fresh produce was "a lot" (10+), with the exception of honeydew melons, which were "few" (<3) in quantity.
- The range of fresh fruit was between one type and three types. The range of fresh vegetables was between four and twelve types.
- The most common unit for purchasing fresh produce was individually/each, followed by box/bag. Other units for purchasing were per pound and by the bunch.

#### **Cost of Produce**

- Fresh fruit was more expensive to purchase overall than fresh vegetables. The range in price for fresh fruit was between \$2.00 and \$8.00 and the range in price for fresh vegetables was \$0.50 and \$3.00.
- Among vegetables sold by the box/bag, radishes cost the least (\$0.50) and summer squash and broccoli cost the most (\$3.00).
- Blackberries were the most expensive fruit (\$8.00) among fruit sold by the box and blueberries were the least expensive (\$3.50).

#### **BACKGROUND**

Healthy Kids, Healthy Communities (HKHC) is a national program of the Robert Wood Johnson Foundation (RWJF) whose primary goal is to implement healthy eating and active living policy, system, and environmental change initiatives that can support healthier communities for children and families across the United States. HKHC places special emphasis on reaching children who are at highest risk for obesity on the basis of race/ethnicity, income, and/or geographic location. For more information about HKHC, please visit www.healthykidshealthycommunities.org.

Located in DeSoto-Marshall-Tate, MS, the Community Foundation of Northwest Mississippi was selected to lead the local HKHC partnership. The partnership has chosen to focus its work on farmers' markets, community gardens, parks and recreation, greenway and blueway plans, and complete streets.

Transtria LLC, a public health evaluation and research consulting firm located in St. Louis, Missouri, is funded by the Robert Wood Johnson Foundation to lead the evaluation and dissemination activities from April 2010 to March 2014. For more information about the evaluation, please visit **www.transtria.com/hkhc**. A supplementary enhanced evaluation component focuses on six cross-site HKHC strategies, including: parks and plays spaces, street design, farmers' markets, corner stores, physical activity standards in childcare settings, and nutrition standards in childcare settings. Communities are trained to use two main methods as part of the enhanced evaluation, direct observation and environmental audits. Tools and training are provided by Transtria staff (see www.transtria.com/hkhc).

In order to better understand the impact of their work in farmers' markets, representatives of DeSoto-Marshall-Tate chose to participate in the enhanced evaluation data collection activities. The partnership completed their enhanced evaluation activities for farmers' markets using the environmental audit method.

#### **METHODS**

The Farmers' Market Environmental Audit Tool was modified from three existing environmental audit tools including the Farmers' Market Vendor Evaluation (created by Monika Roth), Farmers' Market Evaluation, Mystery Shopping-Farmers' Market (created by marketumbrella.org), and Nutrition Environment Measurement Survey-NEMS (created by Glanz et al.). Environmental audits assess the presence or absence of different features as well as the quality or condition of the physical environment. The tool captures overall market operations (e.g., months, days and hours of operation, accessibility, government nutrition assistance programs), vendor display areas (e.g., space and equipment), product signage and pricing (e.g., clear signs, unit and price labeled, discounts for larger sales), frozen/canned fruits and vegetables (e.g., quantity and variety of frozen or canned fruits and vegetables), other foods (e.g., availability of healthier options and foods with minimal nutritional value) and the availability, pricing, quality, and quantity of fresh fruits and vegetables.

Four markets were selected throughout DeSoto-Marshall-Tate for data collection. An Evaluation Officer from Transtria LLC trained community members and partnership staff on proper data collection methods using the tool and data collection was completed between during three different time periods. One market was audited on August 25, 2012. The second market was audited during June 2013 and the third was audited during July 2013. Transtria staff performed data entry and validation, including double data entry to ensure accuracy of the data. Agreement of data entry was 98.66% and all errors were fixed.

#### **OVERALL RESULTS**

#### **Overall Market**

Two of the three markets audited were open year-round, with Monday through Saturday morning and afternoon hours. All of the markets were open at least once a week during their operating seasons. All of the markets had legible signs to identify the market. None of the markets were located near a public transit stop. A third (66%) of the markets accepted WIC/SNAP/EBT.

#### **Vendor Characteristics**

The number of vendors across the farmers' markets ranged from 11 to more than 40. At least 50% of the market vendors at each market sold fresh produce. Each market had visible signs with farmers'/businesses' names, although it varied between "some" (1%-50%) or "most" (51%-99%). All of the vendors were reported to have clean and well-organized displays.

#### **Product Signage and Pricing**

The amount of products identified by name (e.g., with signage) varied by market. Tate County had signage for a lot (51%-99%) of products, while Hernando and Olive Branch had some (1%-50%) signage. One of the markets had mostly (51%-99%) clear signs documenting product prices and the other two had some (1%-50%) signs documenting product prices.

#### Availability of nutrient-dense and minimally nutritious foods

Tate County Farmers' Market had no canned or frozen fruits or vegetables. The market in Hernando had limited (one to three types) amounts of canned fruits and canned vegetables, but no frozen fruits and vegetables. The Olive Branch Farmers' Market had no canned fruits, but did have a variety (four or more types) of canned vegetables. Only one market offered high-fiber, whole grain foods. This same market was the only one to offer healthier foods, such as lean meats, fish, and poultry. Sweet foods (e.g., cookies, cakes) were offered at two of the markets. Milk was available at one market and included two types; 2% and whole/Vitamin D.

#### Availability and quality of fresh produce

Auditors did not indicate the quality or quantity of fresh produce available at two of the markets. When reported, the quality of all fresh produce was "good" (top quality, good color, fresh, firm, and clean. When reported, the quantity of all fresh produce was "a lot" (ten or more), with the exception of honeydew melons, which were "few" (less than three) in quantity. Across all markets, the range of fresh fruit was between one type and three types and vegetables ranged between four and twelve types. The most common unit for purchasing fresh produce was individually, followed by box/bag. Other units for purchasing were per pound and by the bunch.

#### **Cost of Produce**

Fresh fruit was more expensive to purchase overall than fresh vegetables. The range in price for fresh fruit was between \$2.00 and \$8.00 and the range in price for fresh vegetables was \$0.50 and \$3.00. Among vegetables sold by the box/bag, radishes cost the least (\$0.50) and summer squash and broccoli cost the most (\$3.00). Blackberries were the most expensive fruit (\$8.00) among fruit sold by the box and blueberries were the least expensive (\$3.50).

#### **RESULTS BY MARKET**

#### **Tate County Farmers' Market**

#### Overall market

The Tate County Farmers' Market was open year-round (January through December). Although the hours of operation were not indicated, the market was open during the morning and afternoon on Monday through Saturday every week. The market featured legible signage to identify the market's name. Both the entrance and aisles were accessible and easy to maneuver. Auditors indicated that WIC/SNAP/EBT was accepted, but the only signage present was for WIC acceptance. The market did not have an ATM on-site or an information booth.

#### Vendor characteristics

There were over 40 vendors present at the market that sold goods and over 40 that also sold fresh produce. Auditors indicated that a lot (>25%) of vendors displayed visible signs with businesses' names, product names, product prices, and product units. A lot (>25%) of the vendor displays were clean and well-organized. None of the vendors were reported to have power cords taped down at their displays to prevent tripping.

#### Product signage and pricing

A lot (>25%) of vendors at the Tate County Farmers' Market identified products by name, had clear signage documenting the price of goods, and unit prices were labeled appropriately.

#### Availability of nutrient-dense and minimally nutritious foods

No frozen fruits or vegetables were sold at the market; similarly, no canned fruits or vegetables were sold at the market. No high-fiber, whole grain foods or lean meats, fish, or poultry were offered. The healthier foods that were offered at the market included nuts, seeds, or dry beans. No minimally nutritious foods (e.g., salty foods, ice cream, candy) were offered at the market. No types of milk (e.g., 2%, skim, Vitamin D) were sold.

#### Availability and quality of fresh produce

Tate County Farmers' Market offered three types of fresh fruits (cantaloupe, honeydew, watermelon) and four types of fresh vegetables (green peppers, summer squash, eggplant, Irish potatoes). All fruits were sold individually. Three of the vegetables were sold by the pound and the other was sold individually. Auditors indicated that the quality of all the fresh produce sold at the market was good (top quality, good color, fresh, firm, and clean). Aside from honeydew melons, the quantity all of the fresh produce available at the market was a lot (ten or more); there were only a few (less than three) honeydews available.

#### Cost of produce

The most expensive fruit was watermelon (\$3.00). Both cantaloupe and honeydew melons cost \$2.00. The lowest priced vegetable was green peppers (\$0.50 each) and the other vegetables were all \$1.00 per pound.

#### **Hernando Farmers' Market**

#### Overall market

The Hernando Farmers' Market was open April through October. The market was open weekly on Saturday, with morning and afternoon hours between 8:00 AM and 1:00 PM. The market featured an accessible entrance with room to maneuver around the market. A parking lot and on-street parking were located adjacent to the farmers' market. A variety of different amenities were present at this market, including: an on-site market manager, legible signage identifying the market name, seating (e.g., benches, tables/chairs), and an ATM. Events and activities were also hosted at the market. Patrons were equipped to navigate the market because market maps (e.g., maps with directions to market, site map with vendors) were provided as well as an information booth/table. The market accepted WIC/SNAP/EBT but signage was only posted for SNAP acceptance.

#### Vendor characteristics

Thirty-three vendors sold only produce at the market; two vendors sold produce in combination with other products; and forty-one vendors sold no produce. Auditors indicated that the amount of produce sold was sufficient for the vendors' space in all cases. Some vendors (1% to 50%) had visible signs with farmers'/business' names. All of the vendors had clean and well-organized displays and power cords taped down to prevent tripping.

#### Product signage and pricing

It was reported that only some vendors (1% to 50%) identified products by name; had clear signs documenting the price; and had product units appropriately labeled.

#### Availability of nutrient-dense and minimally nutritious foods

A limited (one to three types) amount of both canned vegetables and canned fruits were available at the market. No frozen fruits or vegetables were sold at the market. Healthier foods were available, including: high-fiber, whole grain foods and lean meats, fish, and poultry. Foods with minimal nutritional value were offered but limited to sweet foods (e.g., cookies, cakes). Hernando Farmers' Market was the only market that sold milk; two different types (2% and whole/Vitamin D) were available.

#### Availability and quality of fresh produce

Three types of fresh fruits were available at the market, including: blackberries, blueberries, and peaches. Seven types of fresh vegetables (asparagus, broccoli, cabbages, kale, onions, summer squash, tomatoes) were available at the market. All of the fresh fruit was sold by the box/bag. Three of the fresh vegetables were sold by the bunch; two of the fresh vegetables were sold individually (i.e., each); and one was sold by the pound. Auditors did not indicate the quality or quantity of any of the fresh produce available at the market. See Table 3 for more details about fresh produce availability.

#### Cost of produce

Fresh fruit prices ranged from \$3.50 to \$8.00, with blackberries being the most expensive. Fresh vegetable prices ranged from \$1.00 to \$3.00. Of the fresh vegetables sold by the bunch, radishes were the least expensive (\$1.00) and asparagus was the most expensive (\$3.00). Of the fresh vegetables sold individually, cabbages cost more than broccoli (\$2.00 and \$3.00, respectively).

#### **Olive Branch Farmers' Market**

#### Overall market

The Olive Branch Farmers' Market was open May through October, during Friday morning and afternoon hours, every week. Hours of operation were not specified. The market featured an accessible entrance with room to maneuver around the market. A parking lot was located adjacent to the farmers' market. Two other features present included an on-site market manager and a legible sign identifying the market.

#### Vendor characteristics

Six vendors sold only produce at the market; three vendors sold produce in combination with other products; and five vendors did not sell any produce. All vendors had a sufficient amount of produce for their space/stall. Most vendors (51% to 99%) had visible signs with farmers'/business' names and all vendors had clean and well-organized displays.

#### Product signage and pricing

Some vendors (1% to 50%) identified products by name and had clear signage documenting product price. Most vendors labeled product units appropriately.

#### Availability of nutrient-dense and minimally nutritious foods

No canned fruits were available at the market, but a variety (four or more) of canned vegetables was available. No frozen fruits or vegetables were sold. No healthier foods (e.g., high-fiber, whole grain foods) were offered, and foods with minimal nutritional value were limited to sweet foods (e.g., cookies, cakes).

#### Availability and quality of fresh produce

One type of fresh fruit (strawberries) was available at the market. Twelve different types of fresh vegetables were available at the market, including: broccoli. brussels sprouts, cabbages, carrots, kale, onions, radishes, red peppers, summer squash, and tomatoes. Two types of fresh vegetables (green beans, green peppers) were marked as available at the market, but pricing and unit of purchase were not indicated. Six of the fresh vegetables were available for purchase by the box/bag. Three of the fresh vegetables (kale, onions, red peppers) were available for purchase individually (i.e., each). Tomatoes were available for purchase by the pound. Auditors did not indicate the quality or quantity of fresh produce available at the market. See Table 3 for more details about fresh produce availability.

#### Cost of produce

The range of fresh produce prices at the market was between \$0.50 and \$3.00. Of the fresh vegetables sold by the box/bag, radishes were the least expensive (\$0.50) and broccoli and summer squash were the most expensive (\$3.00). Of fresh vegetables sold individually, red peppers were the least expensive (\$0.50) and kale was the most expensive (\$2.00).

# Appendix A: Tables

**Table 1: Overall Market Information** 

Characteristics Present	Tate County Farmers' Market	Hernando Farmers' Market	Olive Branch Farmers' Market
Months of operation: January	X		
Months of operation: February	X		
Months of operation: March	X		
Months of operation: April	X	Χ	
Months of operation: May	X	Χ	Х
Months of operation: June	X	Χ	Х
Months of operation: July	X	Χ	X
Months of operation: August	X	Χ	Х
Months of operation: September	X	Χ	X
Months of operation: October	X	Χ	X
Months of operation: November	X		
Months of operation: December	X		
Days of operation: Monday	X		
Days of operation: Tuesday	X		
Days of operation: Wednesday	X		
Days of operation: Thursday	X		
Days of operation: Friday	X		Х
Days of operation: Saturday	X	Χ	
Market is open on Monday morning	X		
Market is open on Monday afternoon	X		
Market is open on Tuesday morning	X		
Market is open on Tuesday afternoon	X		
Market is open on Wednesday morning	X		
Market is open on Wednesday afternoon	X		
Market is open on Thursday morning	X		
Market is open on Thursday afternoon	X		
Market is open on Friday morning	X	_	

Table 1 (continued): Overall Market Information

Characteristics Present	Tate County Farmers' Market	Hernando Farmers' Market	Olive Branch Farmers' Market
Market is open on Friday afternoon	X		
Market is open on Saturday morning	X	Х	
Market is open on Saturday afternoon	X	Χ	
Operating Hours open:		8:00 AM	
Operating Hours close:		1:00 PM	
Frequency of operation: 1 day a week		Χ	Χ
Frequency of operation: 2-6 days a week	X		
Features: Accessible entrance	X	Х	Χ
Features: Room to maneuver around market	X	Х	Х
Features: On-site market manager*		Х	Х
Features: Legible signs to identify market	Х	Х	Х
Features: Seating		Х	
Features: Events/activities		Х	
Features: ATM		Х	
Features: Information booth/table		Х	
Features: Market maps		Х	
Features: Parking lot adjacent to farmers' market*		Х	Х
Features: On-street parking adjacent to farmers' market*		Х	
Market accepts WIC/SNAP/EBT	X	Х	
Sign for WIC	X		
Sign for SNAP/Food stamps		Х	
How many vendors sell only produce?*		33	6
How many vendors sell produce and other products?*		2	3
How many vendors sell no produce?*		41	5
Number of vendors who sell goods at the market**	40+		
Number of vendors who sell fresh produce at the market**	40+		

Table 1 (continued): Overall Market Information

Characteristics Present	Tate County Farmers' Market	Hernando Farmers' Market	Olive Branch Farmers' Market
Amount of produce sufficient for vendor			
space: All*		X	X
Visible signs with farmers'/businesses' names: Some*		X	
Visible signs with farmers'/businesses' names: Most*	X		X
Clean and well-organized displays: All	X	X	Χ
Power cords taped down to prevent tripping: All*		Х	
Power cords taped down to prevent tripping: No vendors	X		
Product signage and pricing (for fresh fruits/	/egetables only)		
Products are identified by name: Most*	X		
Products are identified by name: Some		Х	Х
Clear signs document the price: Most*	X		
Clear signs document the price: Some		Х	Х
Units are appropriately labeled: Most	X		X
Units are appropriately labeled: Some		X	
Frozen or canned fruits/vegetables			
How many types of canned fruits are available: None*			Х
How many types of canned fruits are available: Limited*		X	
How many types of canned vegetables are available: Limited*		Х	
How many types of canned vegetables are available: Variety*			Х
How many types of frozen fruits are available: None*		X	X
How many types of frozen vegetables are available: None*		X	X
How many types of canned fruits are available: None*			X
No canned fruits available**	X		

**Table 1 (continued): Overall Market Information** 

Characteristics Present	Tate County Farmers' Market	Hernando Farmers' Market	Olive Branch Farmers' Market
Frozen or canned fruits/vegetables (continue	ed)		
No canned vegetables available**	X		
No frozen fruits available**	X		
No frozen vegetables available**	X		
Other foods			
High-fiber, whole grain foods available		X	
Healthier foods: Lean meats, fish, poultry		X	
Healthier foods: Nuts, seeds, or dry beans	X		
Minimal nutritional value: Sweet foods		Χ	X
Milk available: 2%		Χ	
Milk available: Whole or Vitamin D		X	

<sup>\*</sup>on new tool

<sup>\*\*</sup>on old tool

Table 2: Characteristics not Found

Overall market: Foods with minimal nutritional value:

Security features Salty foods

Public transit stop\* Ice cream/frozen desserts

WIC/SNAP/EBT customers use Candy/chocolate

tokens to make purchases at the Regular to high-fat prepared meals

market\* Milk:

Other discount\* Skim milk
Discounts for larger sales\*\* 1%

Flavored whole milk

Healthier foods: Flavored skim, 1%, or 2%
Cottage cheese or low-fat yogurt Rice milk

Low-fat prepared meals

Soy milk

Lactaid

\*on new tool

<sup>\*\*</sup> on old tool

Table 3: Fresh Fruit and Vegetable Availability, Price, Quality, and Quantity

			County ers' Marke	t	-	nando s' Market		Branch rs' Market
Produce Item	Price	Unit	Quality	Quantity	Price Unit		Price	Unit
Fruits								
Blackberries					\$8.00	box		
Blueberries					\$3.50	box		
Cantaloupes	\$2.00	each	good	a lot				
Honeydews	\$2.00	each	good	few				
Peaches					\$5.00	box		
Strawberries*							\$2.50	
Watermelons	\$3.00	each	good	a lot				
Vegetables								
Asparagus					\$3.00	bunch		
Broccoli					\$3.00	each	\$3.00	box
Brussels sprouts							\$1.50	box
Cabbages					\$2.00	each	\$2.00	box
Carrots							\$1.00	box
Green beans**							Х	
Green peppers**	\$0.50	each	good	a lot			Х	
Kale					\$2.00	bunch	\$2.00	each
Onions					\$1.00	bunch	\$1.00	each
Radishes							\$0.50	box
Red peppers							\$0.50	each
Spinach								
Summer squash*	\$1.00	per lb	good	a lot	\$3.00		\$3.00	box
Tomatoes					\$2.50	per lb	\$2.50	per lb
Other: Eggplant	\$1.00	per lb	good	a lot				
Other: Irish potatoes	\$1.00	per lb	good					
Other: Potatoes								

<sup>\*</sup>auditors did not indicate unit
\*\*auditors indicated product price by marking "X"

#### **Evaluation of Healthy Kids, Healthy Communities**

Yes

#### Farmers' Market Environmental Audit Tool Farmers' market ID (for Transtria use only): Farmers' market name: Community partnership: Date: Address: Audit start time: \_\_\_: \_\_ O AM O PM Number of vendors: Audit end time: \_\_ : \_\_ O AM O PM Auditor 1: Auditor 2: Section A: Overall market Section A: Overall market (cont.) 4.c. Security features (security guard(s) 1. What are the market months of operation? and/or security camera(s)) Yes 1.g. July 4.d. On-site market manager 1.a. January Nο Yes Nο Yes No Yes 1.h. August 4.e. Legible signs to identify the market 1.b. February Yes No Yes No Yes 1.i. September 4.f. Seating (e.g., benches, tables/chairs) 1.c. March No Yes No Yes No Yes 1.i. October 4.g. Events/activities (e.g., yoga, live music) 1.d. April No Yes No Yes Yes 1.k. November 4.h. ATM 1.e. May Yes No Yes No No Yes 1.I. December 4.i. Information booth/table 1.f. June Yes Yes 4.j. Market maps (e.g., maps with directions 2. What are the market days and hours of operation? to market, site map with vendors) No Yes 4.k. Public transit stop visible from the 2.a. Sunday (Check yes or no.) Enter operating hours (open/close): Nο Yes farmers' market Nο Yes 2.b. Monday (Check yes or no.) 4.I. Parking lot adjacent to farmers' market Enter operating hours (open/close): No Yes No Yes 2.c. Tuesday (Check yes or no.) 4.m. On-street parking adjacent to farmers' market Enter operating hours (open/close): Nο Yes Yes 2.d. Wednesday (Check yes or no.) 4.n. Other, specify: Enter operating hours (open/close): No Yes Yes 2.e. Thursday (Check yes or no.) 5. Does the market accept WIC/SNAP/EBT? (If Enter operating hours (open/close): No Yes no, skip to Question 6) Yes 2.f. Friday (Check yes or no.) 5.a. Sign for WIC Enter operating hours (open/close): No Yes No Yes 2.g. Saturday (Check yes or no.) 5.b. Sign for SNAP/Food stamps Enter operating hours (open/close): Yes Yes 5.c. WIC/SNAP/EBT customers use tokens 3. What is the frequency of operation? (Circle one.) to make purchases at the market. No Yes 5.d. Other discount, specify: Daily 2-6 days a week

Comments?

1 day a week

strollers and wheelchairs

wheelchairs, strollers)

4. What features are present in the market?

4.a. Accessible entrance (allows entry for

4.b. Room to maneuver around market (e.g.,

Transtria LLC Page 1

items.

**Section B: Vendor characteristics** 

6. How many vendors sell only produce?

8. How many vendors sell no produce?

Fill in the appropriate number of vendors for the next three

7 How many vendors sell produce and other products?

1-3 days a month

No

Yes

Yes

# **Evaluation of Healthy Kids, Healthy Communities**

Section B: Vendor characteristics (cont.)					Section D: Frozen or canned fruits/vegetables (cont.)						
9. Circle the most appropriate response for each item.				14. How many types of frozen vegetables are available? (Circle one.)							
9.a. Amount o	f produce suffi	cient for ver	ndor s	pace	None (0) Limited (1-3 types) Variety (4+ type						
None	Some	Most		All	Section E: Other for	ods					
9.b.Visible sign	ns with farmers	s'/ business	ses' na	mes	, ,	er, whole grain foods or eread or pasta, brown r		□ No	☐ Yes		
None	Some	Most		All	, ,	s of <u>healthier</u> foods are	•	?			
9.c. Clean and	l well-organize	d displays	•		16.a. Cottage che	ese or low-fat yogurt		□ No	Yes		
None	Some	Most		All	16.b. Lean meats, fish, poultry				☐ Yes		
9.d. Power cord	ds taped down to	prevent trip	ping		16.c. Nuts, seeds,	or dry beans		□ No	☐ Yes		
None	Some	Most		All	16.d. Low-fat prep chicken)	ared meals (e.g., bake	ed	□ No	Yes		
Section C: Produvegetables only		pricing (fo	r fresi	n fruits and	16.e. Other, specif	fy:		□ No	☐ Yes		
10. Circle the me		e response	for ead	ch item.	17. What other type: are offered?	s of foods with minima	l nutritio	nal val	lue		
10.a. Products	are identified	by name.			17.a. Salty foods (	e.g., potato chips, pop	ocorn)	□ No	Yes		
None	Some	Most		All	17.b. Ice cream/frozen desserts			No	Yes		
10.b. Clear sig	ns document	the price.			17.c. Sweet foods	(e.g., cookies, cakes)		□ No	Yes		
None	None Some Most All		All	17.d. Candy/choco		□ No	☐ Yes				
10.c. Units are bunch).	appropriately	labeled (e.	g., wei	ght, box,	17.e. Regular to high-fat prepared meals (e.g., fried chicken)				☐ Yes		
None	Some	Most		All	17.f. Other, specify:				Yes		
10.d. Discount	ts for larger sa	les			18. Is milk sold? (If n	□ No	Yes				
None	Some	Most		All	18.a. Skim milk			□ No	Yes		
Go to the Attachr availability, price Vegetable availa	e, quality, and q	quantity; and	d Frest		18.b. 1%	□ No	☐ Yes				
Section D: Froz	zen or canned	l fruits/veg	etable	s	18.c. 2%			□ No	☐ Yes		
11. How many ty one.)	ypes of canned	d fruits are a	availab	ole? (Circle	18.d. Whole or Vit	amin D milk		□ No	Yes		
None (0)	Limited (1-	3 types)	Varie	ty (4+ types)	18.e. Flavored wh	ole milk		□ No	Yes		
12. How many types of canned vegetables are available? (Circle one.)				18.f. Flavored skim, 1%, or 2% milk			No	☐ Yes			
None (0)	Limited (1-	3 types)	Varie	ty (4+ types)	18.g. Rice milk				☐ Yes		
13. How many ty one.)	ypes of frozen	fruits are av	vailabl	e? (Circle	18.h. Soy milk				☐ Yes		
None (0)	Limited (1-	3 types)	Varie	ty (4+ types)	18.i. Lactaid	□ No	Yes				

Comments?

# Attachment for Section C: Fresh fruit availability, price, quality, and quantity

				c. Unit/W	/eight		d. Qı	uality	•	e. Quantity		
Fruit	a. Not Available	b. Lowest price	Per pound (lb)	Per box/ bag	Each	Bunch	Avg./ Good	Poor	A lot 10+	Some 3-9	Few <3	f. Comments
19. Apples												
20. Bananas												
21. Blackberries												
22. Blueberries												
23. Cantaloupes												
24. Cherries												
25. Cranberries												
26. Grapefruits												
27. Grapes												
28. Honeydew melons												
29. Kiwis												
30. Mangos												
31. Nectarines												
32. Oranges												
33. Papayas												
34. Peaches												
35. Pears												
36. Pineapples												
37. Plums												
38. Raspberries												
39. Strawberries												
40. Tangerines												
41. Watermelons												
42. Other:												
43. Other:												
44. Other:												

## Attachment for Section C: Fresh vegetable availability, price, quality, and quantity

				c. Unit/W	/eight		d. Qı	uality	(	e. Quant	ity	
Vegetable	a. Not Available	b. Lowest price	Per pound (lb)	Per box/ bag	Each	Bunch	Avg./ Good	Poor	A lot 10+	Some 3-9	Few <3	f. Comments
45. Artichokes												
46. Asparagus												
47. Avocados												
48. Broccoli												
49. Brussels sprouts												
50. Cabbages												
51. Carrots												
52. Cauliflower												
53. Celery												
54. Collard greens												
55. Corn												
56. Green beans												
57. Green peppers												
58. Kale												
59. Lentils												
60. Lettuce – Romaine												
61. Lima beans												
62. Mushrooms												
63. Okra												
64, Onions												
65. Radishes												
66. Red peppers												
67. Spinach												
68. Summer squash												
69. Sweet potatoes												
70. Tomatoes												
71. Other:												
72. Other:												
73. Other:												

# Healthy Kids, Healthy Communities of DeSoto, Marshall, and Tate Counties

# Parks and Play Spaces Environmental Audits

**Summary Report** 

Prepared by Transtria LLC



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#### Overview

DeSoto, Marshall, and Tate's Healthy Kids, Healthy Communities, one of 49 Healthy Kids, Healthy Communities partnerships, is part of a national program of the Robert Wood Johnson Foundation whose primary goal is to implement healthy eating and active living policy, system, and environment change initiatives. In order to better understand the impact of their work in parks and recreation, representatives of DeSoto-Marshall-Tate collected environmental audit data in parks and play spaces throughout DeSoto County. The following ten parks and play spaces were included in the assessment: Lake Cormorant Community Park and Trail, Cockrum Community Park and Trail, Fairview Park, DeSoto County Visitor Center Trail, Robertson-Donald Park, Hernando-DeSoto Park, The Arkabutla Lake Education and Nature Center Trail, Johnson Creek Greenway, Eudora Community Park and Trail, and Coldwater River Nature Trails.

#### Results

- All ten park spaces in DeSoto County were located outdoors and had clear signage indicating the park name.
- Almost all (90%) of the parks had a parking area on-site.
- There were no vending machines in the ten audited parks.
- None of the parks required entrance fees.
- All parks were accessible for wheelchair or stroller entry.
- All ten parks audited had sports or recreation features.
- None of the parks audited had broken glass, graffiti/tagging, evidence of alcohol or other drug use, or sex paraphernalia.
- All ten parks lacked sidewalk/pedestrian lighting, bicycle parking, a bus/transit stop, crosswalks at all intersections next to the play space, and a shower/locker room

#### Background

Healthy Kids, Healthy Communities (HKHC) is a national program of the Robert Wood Johnson Foundation (RWJF) whose primary goal is to implement healthy eating and active living policy, system, and environmental change initiatives that can support healthier communities for children and families across the United States. HKHC places special emphasis on reaching children who are at highest risk for obesity on the basis of race/ethnicity, income, and/or geographic location. For more information about HKHC, please visit www.healthykidshealthycommunities.org.

Located in DeSoto-Marshall-Tate, MS, the Community Foundation of Northwest Mississippi was selected to lead the local HKHC partnership. The partnership has chosen to focus its work on farmers' markets, community gardens, parks and recreation, greenway and blueway plans, and complete streets.

Transtria LLC, a public health evaluation and research consulting firm located in St. Louis, Missouri, is funded by the Robert Wood Johnson Foundation to lead the evaluation and dissemination activities from April 2010 to March 2014. For more information about the evaluation, please visit **www.transtria.com/hkhc**. A supplementary enhanced evaluation component focuses on six cross-site HKHC strategies, including: parks and plays spaces, active transportation, farmers' markets, corner stores, physical activity standards in childcare settings, and nutrition standards in childcare settings. Communities are trained to use two main methods as part of the enhanced evaluation, direct observation and environmental audits. Tools and training are provided by Transtria staff (see www.transtria.com/hkhc).

In order to better understand the impact of their work in parks and play spaces, representatives of DeSoto-Marshall-Tate chose to participate in the enhanced evaluation data collection activities. The partnership completed their enhanced evaluation activities for parks and play spaces using the environmental audit method.

#### **Methods**

The Parks and Play Spaces Environmental Audit Tool was used to collect data (see appendix). This tool and protocol were adapted from the Physical Activity Resource Assessment and the BTG-COMP Park Observation Form 2012. An Evaluation Officer from Transtria LLC trained members of DeSoto-Marshall-Tate's community partnership on proper data collection methods using the tool.

Environmental audits assess the presence or absence of different features as well as the quality or condition of the physical environment. This tool captures the setting, accessibility, vending machines, signage, barriers to entry, playground features (swings/slides/monkey bars/sandboxes/ground games), sports and recreation features (fields/courts/pools/tracks/trails), aesthetic features and amenities, trash and vandalism.

In this case, the audit tools were completed for ten parks in DeSoto, Marshall, and Tate Counties. The following parks were included in the assessment: Lake Cormorant Community Park and Trail, Cockrum Community Park and Trail, Fairview Park, DeSoto

County Visitor Center Trail, Robertson-Donald Park, Hernando-DeSoto Park, The Arkabutla Lake Education and Nature Center Trail, Johnson Creek Greenway, Eudora Community Park and Trail, and Coldwater River Nature Trails. One auditor completed the assessments between May 11, 2013 and June 4, 2013. Transtria staff performed data entry and validation. Double data entry was performed to ensure accuracy of data. Agreement of data entry was 99.6% and all errors were fixed.

#### **Overall Results**

#### Setting and accessibility

All ten park spaces in DeSoto County were located outdoors. Half of the spaces were multi-feature publically accessible parks, while three (30%) were publically accessible green spaces (i.e., no features such as sports fields or jungle gyms) and two (20%) were single-feature publically accessible parks.

Almost all (90%) of the parks had a parking area on-site, and one park had on-street parking next to the play space. There were no curbs or other barriers for wheelchairs or strollers entering the play spaces. Sixty percent of the parks had a restroom or portable toilet, although a few are only open during sports events. All ten parks lacked sidewalk/pedestrian lighting, bicycle parking, a bus/transit stop, crosswalks at all intersections next to the play space, and a shower/locker room.

#### Vending machines

There were no vending machines in the ten audited parks.

Signage and barriers to entry

All audited parks had signage indicating the park or play space name. None of the parks had a physical barrier or locked fence, although three had a gate or fence partially restricting access. No entrance fees were required.

#### Playground features

#### **Key Takeaways**

- All ten park spaces in DeSoto County were located outdoors and had clear signage indicating the park name.
- Almost all (90%) of the parks had a parking area on-site.
- All ten parks audited had sports or recreation features.
- None of the parks audited had broken glass, graffiti/tagging, evidence of alcohol or other drug use, or sex paraphernalia.
- All ten parks lacked sidewalk/pedestrian lighting, bicycle parking, a bus/transit stop, crosswalks at all intersections next to the play space, and a shower/locker room

Half of the parks had playground features present in the play space. Three of the playgrounds had woodchip/mulch as the surface, while the other two had grass, dirt, or pea gravel.

One park had three toddler swings, which were all in good condition. Two parks had two youth swings and another had three, all in good condition. One to three slides were found in four of the parks. Four parks had monkey bars or climbing bars and three had

climbing poles. Three of the parks had other play areas, including a counting board, play fort, and driving wheel.

#### Sports and recreation features

All ten parks audited had sports or recreation features. Four of the parks had baseball fields, which were in good condition. Three of the parks with baseball fields also had lighting. Trails were found at a majority (80%) of the parks, ranging from one to three tails per park that have at least one trail with two-way traffic. Other features were present in three parks, including a pond overlook, boat ramp, and educational stage area.

#### Aesthetic features and amenities

The green spaces at seven of the ten parks were reported in average/good condition, while three of the parks were in poor condition. A majority (60-80%) of the parks had benches, picnic tables, trash containers, grills/fire pills, and shade trees that were in average/good condition. A few parks had other gardens and plants (40%) and shelters (20%), which were all in average/good condition.



Picture 1: Trail at ARK

#### Trash and vandalism

Two of the parks had a little/some garbage or litter. None of the parks audited had broken glass, graffiti/tagging, evidence of alcohol or other drug use, or sex paraphernalia.

#### **Results by Individual Park**

# Lake Cormorant Community Park and Trail

Setting and accessibility: Lake Cormorant Community Park and Trail was a multifeature publically accessible park in an outdoor setting with lighted parking onsite. Covering eight acres, the park was located next to the Community Center. The restrooms are open only during ball practice and games. Lake Cormorant Community Park and Trail had a bike lane, sharrow, or signage adjacent to its play space. There were no vending machines present, but concession stands



Picture 2: Lake Cormorant Community Park and Trail

open during ballgames.

<u>Playground features</u>: The park had new playground equipment, including climbing bars, a pole, counting board, and driving wheel in addition to youth swings and slides. The large playground area had a surface consisting of woodchips/mulch.

<u>Sports and recreation features</u>: Two baseball fields with lighting were present. The park also had one asphalt/concrete trail with lighting and two-way traffic.

<u>Aesthetic features and amenities</u>: New benches, picnic tables, and trash containers were present and reported as being in good condition. Bleacher seating and shade trees were also present. The green space at this location was documented as being in poor condition.

### **Cockrum Community Park and Trail**



Picture 3: Cockrum Community Park

Setting and accessibility: The Cockrum Community Park and Trail was a multi-feature publically accessible park in an outdoor setting with lighted onsite parking. The park was two and a half acres, and located next to the volunteer fire department and community center building. A restroom was located at the fire station, although access was restricted to when personnel were present.

<u>Playground features</u>: The park had new playground equipment, including climbing bars, a pole, counting board, and driving wheel in addition to youth swings and slides. The playground area was a large size with a surface consisting of woodchips/mulch.

<u>Sports and recreation features</u>: A two-way, four feet wide asphalt/concrete walking trail was present.

Aesthetic features and amenities: All of the features present (benches, picnic tables, trash containers, grills/fire pits) were reported as being in good condition. The park is bordered by mature trees, and newly planted shade trees by the trail and playground. Wildflowers were planted in the picnic area.



Picture 4: Playground at Cockrum Community Park

#### Fairview Park



Picture 5: Fairview Park

<u>Setting and accessibility</u>: Fairview Park was a singlefeature publically accessible park with lighted parking on-site. A restroom was accessible at this location and open during ball games.

<u>Playground features</u>: There were no playground features noted at Fairview Park.

<u>Sports and recreation features</u>: One baseball field with lighting in good condition was present.

Aesthetic features and amenities: Green space was present at the park, although it was reported to be in poor condition.

The other features present (benches, picnic tables, trash containers, grills/fire pits, and shade trees) were in good condition.

#### DeSoto County Visitor Center Trail

Setting and accessibility: The DeSoto County Visitor Center Trail was a single-feature publically accessible trail with lighted on-site parking. A sidewalk was on the street leading to the entrance. Restrooms were located in the visitor center building at the trail head.

<u>Playground features</u>: There were no playground features at this trail.

<u>Sports and recreation features</u>: The DeSoto County Visitor Center Trail's surface was both



Picture 6: DeSoto County Visitor Center Trail

natural (dirt or grass) and asphalt/concrete. It was a quarter mile in length and eight feet wide with little to no elevation. The two-way trail was restricted to hiking/foot traffic only and overlooked a pond.

<u>Aesthetic features and amenities</u>: The trail featured strategically placed benches, interpretive signage, native tree plantings, and a graphic introduction to the DeSoto County Greenways Program. Some features present along this trail (green space, decorative water fountains, benches, and trash containers) were reported as being in good condition, while other features (shade trees and other plants) were in poor condition.

#### Robertson-Donald Park

Setting and accessibility: Robertson-Donald Park was a multi-feature publically accessible park in an outdoor setting with lighted parking on-site, spanning 12.5 acres. There was a sidewalk on the street leading to the entrance. Restrooms were locked, although they are unlocked during baseball practices and games.

There were no vending machines, but concession stands are provided during baseball practices and games. A gate/fence partially restricting access to the park was present.

<u>Playground features</u>: The playground featured one slide and the equipment was plastic, restricting use to small children. The

**Picture 7: Robertson-Donald Park** 

playground surface was reported to be in poor condition; comprised of pea gravel with high weeds.

Sports and recreation features: Two baseball fields with lighting were present.

<u>Aesthetic features and amenities</u>: A pavilion/shelter, picnic tables, and four sets of bleachers were present, all reported in good condition. The green space, drinking fountain, and trash containers were all reported to be in poor condition.

#### Hernando-DeSoto Park

Setting and accessibility: The Hernando-DeSoto Park was a publically accessible green space on 41 acres. The parking area was on-site. No restrooms were present.

<u>Playground features</u>: There were no playground features.

<u>Sports and recreation features</u>: The trail, a mile in length and eight feet wide, was composed of a natural surface (dirt or grass). The difficulty level of the two-way



Picture 8: Hernando-DeSoto Park

trail was reported to be easy and was restricted to foot traffic. As the county's only public access to the Mississippi River, the park featured fishing and a boat ramp.

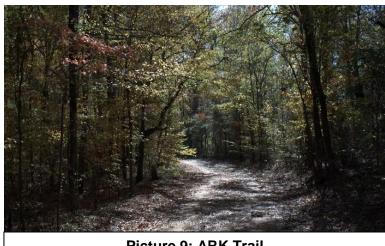
<u>Aesthetic features and amenities</u>: The green space, picnic tables overlooking the river, trash containers, grills/fire pits, shade trees, and other plants were reported in good condition.

#### The Arkabutla Lake Education and Nature Center Trail (ARK)

Setting and accessibility: ARK was a publically accessible green space with on-site parking and portable restrooms. A gate/fence partially restricting access to the park was present.

Playground features: There were no playground features.

Sports and recreation features: Two trails were present at ARK. The nature trail was composed of a natural surface (dirt/grass) and spanned two miles in length and eight feet wide. The trail had little elevation, making the difficulty level of this trail easy. The trail was designated as a wildlife sanctuary, which meant travel is restricted to food traffic and no pets were allowed.



Picture 9: ARK Trail

Aesthetic features and amenities: ARK had two unique features available: an education area with seating and an education area with a stage. Interpretive signs along the trail listed area wildlife and tree identification markers. The trail had views of Arkabutla Lake. the existing swamp, and open space fields planted for wildlife habitat. The green space, benches, picnic tables, trash containers, shade trees, and other plants were all reported as being in good condition.

#### Johnson Creek Greenway

Setting and accessibility: The Johnson Creek Greenway was a publically accessible eight mile greenway. A gate/fence partially restricting access to the park was present.

Playground features: There were no playground features.

<u>Sports and recreation features</u>: Two trails (a three-mile and five-mile) were present. Each trail had a ten foot width and allowed for two-way traffic. Difficulty of these natural gravel trails was recorded as easy, with little to no elevation gain. Trail use was dedicated to biking and hiking.

Aesthetic features and amenities: Only a few features were present along the greenway; both green space and shade trees were reported as being in good condition, whereas other gardens and plants were reported as poor condition. The Johnson Creek Greenway included portions of the Entergy Utility easement on the south side of the creek and portions of the DeSoto County Regional Utility Authority easement on the north side of the creek.

# Eudora Community Park and Trail

Setting and accessibility: The Eudora Community Park and Trail is a multi-feature publically accessible park in an outdoor setting. The park, located on 9.2 acres of land, had lighted on-site parking. Restrooms were available at the nearby fire station.

<u>Playground features</u>: The playground at this site featured climbing bars, a fireman pole, and a play fort, all reported as being in good condition. The



Picture 10: Eudora Community Park and Trail

playground surface was comprised of natural materials (grass or dirt).

<u>Sports and recreation features</u>: One baseball field was present at the park, but no lighting was available. The trail was one-third of a mile, four feet wide, and allowed for two-way traffic. Difficulty of the trail was recorded as easy.

<u>Aesthetic features and amenities</u>: The green space, benches, picnic tables, trash containers, grills/fire pits, and shade trees were all reported to be in good condition.

#### **Coldwater River Nature Trails**

<u>Setting and accessibility</u>: The Coldwater River Nature Trails was a multi-feature publically accessible park in an outdoor setting with lighted parking on-site. A restroom was present at this location.



Picture 11: Coldwater River Nature Trails

<u>Playground features</u>: The playground, located at the trail head, had a surface of woodchips/mulch. Features present in the area included, three toddler swings, three youth swings, two slides and two monkey/climbing bars. All the features were reported to be in good condition.

Sports and recreation features: Three different length trails were present: two miles, three miles, and five miles. All three trails permitted two-way traffic and were open for both walking and biking use. The trail surface was dirt or grass and they traverse a

flat bottomland with little or no elevation gain.

<u>Aesthetic features and amenities</u>: The area included a bottomland hardwood and pine forest. A self-guided interpretive booklet was available at the trailhead, near the playground. Features present at the park included an outlook pier, green space, shelters, benches, picnic tables, trash containers, grills/fire pits, shade trees, and other plants.

The information in this report was funded by Healthy Kids Healthy Communities of DeSoto, Tate, and Marshall Counties.









# Appendix A

**Table 1: Playground Features** 

Park	Toddler Swings	Youth Swings	Slides	Monkey or climbing bars	Other climbing feature	Other play features	Surface of play area	Comments from auditor
Lake Cormorant Community Park and Trail	0	2	3	1	1	Counting board, driving wheel	Woodchips/ mulch	New equipment, nice with a large play area surrounding
Cockrum Community Park and Trail	0	2	3	1	1	Counting board, driving wheel	Woodchips/ mulch	Very nice play equipment-new
Robertson-Donald Park	0	0	1	0	0		Pea gravel	Poor play area-high weeds and plastic pulled up from under pea gravel
Eudora Community Park and Trail	0	0	0	1	2	Fireman pole and play fort	Grass/dirt	Climbing bars, fort, and pole is one piece
Coldwater River Nature Trails	3	3	2	2	0		Woodchips/ mulch	Playground equipment is located at the trail head

<sup>\*</sup>All of the features were rated as being in average/good condition. The following parks did not have playgrounds: Fairview Park, DeSoto County Visitor Center Trail, Hernando DeSoto Park, The Arkabutla Lake Education and Nature Center Trail (ARK), and Johnson Creek Greenway.

**Table 2: Sports and Recreation Features** 

Park	Baseball	Trails	Trail Surface	Trail comments	Other features
	Fields				
Lake Cormorant	2*	1*	Asphalt/concrete		
Community Park and Trail					
Cockrum Community Park and Trail	0	1	Asphalt/concrete	1/4 mile trail. 8 feet wide.	
Fairview Park	1*	0			
DeSoto County Visitor Center Trail	0	1	Asphalt/concrete	1/4 mile trail. 8 feet wide. Hiking, foot traffic only. Difficulty level = easy	Pond overlook
Robertson-Donald Park	2*	0			
Hernando DeSoto Park	0	1	Dirt or grass	1 mile trail. 8 feet wide. Difficulty level = easy. Foot travel only.	Boat ramp
The Arkabutla Lake Education and Nature Center Trail (ARK)	0	2	Dirt or grass	2 mile trail. 8 feet wide. Hiking, foot traffic only.	Education stage area
Johnson Creek Greenway	0	2	Gravel	8 miles total (1 trail = 3 miles, 1 trail = 5 miles). 10 feet wide.  Difficulty level = easy	
Eudora Community Park and Trail	1	1	Asphalt/concrete	1/3 mile trail. 4 feet wide. Difficulty level = easy.	
Coldwater River Nature Trails	0	3	Dirt or grass	2, 3, and 5 mile trails. Walking, biking, running allowed.	

<sup>\*</sup>Lighting present at feature

All of the features were rated as being in average/good condition.

Table 3: Park Characteristics (setting and accessibility)

Park Characteristics	Lake Cormorant Community Park and Trail	Cockrum Community Park and Trail	Fairview Park	DeSoto County Visitor Center Trail	Robertson- Donald Park	Hernando DeSoto Park	The Arkabutla Lake Education and Nature Center Trail (ARK)	Johnson Creek Greenway	Eudora Community Park and Trail	Coldwater River Nature Trails
Setting										
Single-feature publically accessible park			X	X						
Multi-feature publically accessible park	X	X			x				X	x
Publically accessible green space						Х	Х	Х		
Outdoor setting	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
Accessibility										
Parking area on-site	X	Х	X	Х	X	Х	Χ		Х	X
Lighted parking area	Х	Х	Х	Х	Х				Х	Х
On-street parking next to play space								Х		
Sidewalk on street leading to entrance				Х						
Wheelchair or stroller can easily enter space	X	Х	Х	х	X	х	Х	Х	Х	Х
Bike lane, sharrow, or bike signage on street										
adjacent to play space	X		.,	.,	.,		.,			.,
Restroom	X		X	Х	X		X			X

Table 4: Park Characteristics (signage, barriers to entry, trash and vandalism)

Park Characteristics	Lake Cormorant Community Park and Trail	Cockrum Community Park and Trail	Fairview Park	DeSoto County Visitor Center Trail	Robertson- Donald Park	Hernando DeSoto Park	The Arkabutla Lake Education and Nature Center Trail (ARK)	Johnson Creek Greenw ay	Eudora Community Park and Trail	Coldwater River Nature Trails
Signage and barriers to entry										
Signage that indicates the park or play space name Gate/fence partially	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
restricting access to play space					X		X	Х		
Trash and vandalism										
No garbage/litter present	X	X		Х	X		X	Х	X	Х
A little/some garbage/litter			Х			х				
No broken glass present	Х	X	Χ	Х	Х	Х	Х	Χ	X	Χ
No graffiti/tagging present	X	Х	Х	Х	X	Х	Х	Х	Х	Х
No evidence of alcohol or other drug use	X	X	Х	Х	X	Х	X	Х	X	X
No sex paraphernalia present	X	X	Х	Х	X	Х	X	Х	X	Х

Table 5: Aesthetic features and amenities by condition

Park	Green Space	Drinking fountains	Shelters	Benches	Picnic Tables	Trash Containers	Grills/fire pits	Shade Trees
Lake Cormorant Community Park and Trail	Poor	None	None	Good	Good	Good	Good	Good
Cockrum Community Park and Trail	Good	None	None	Good	Good	Good	Good	Good
Fairview Park	Poor	None	None	Good	Good	Good	Good	Good
DeSoto County Visitor Center Trail	Good	None	None	Good	None	Good	None	Poor
Robertson-Donald Park	Poor	Poor	Good	None	Good	Poor	None	None
Hernando DeSoto Park	Good	None	None	Good	Good	Good	Good	Good
The Arkabutla Lake Education and Nature Center Trail (ARK)	Good	None	None	Good	Good	Good	None	Good
Johnson Creek Greenway	Good	None	None	None	None	None	None	Good
Eudora Community Park and Trail	Good	None	None	Good	Good	Good	Good	Good
Coldwater River Nature Trails	Good	None	Good	Good	Good	Good	Good	Good

## **Evaluation of Healthy Kids, Healthy Communities**

Parks and Play	/ Spaces Environm	ental Audit	Tool	l	Play space ID (Transtria use only):						
"Play spaces" may	refer to parks as well as	other play spac	ces (e	.g., pla	aygrounds, pools, greenways).						
Play space name:					Community partnership:		_				
Address:					Date:		_				
Hours of operation	: Open Close				Weather conditions:		_				
☐ No posted hours					Start time: : : O AM O PM						
Size of play space	(acres):				End time:: O AM O PM						
Auditor name:					Auditor name 2:						
				ianac	ge and barriers to entry						
	ng, accessibility, ven	unig macinii	<del>c</del> s, s	igiiag	Accessibility (cont.)						
Setting											
	ark or play space is thi		one.)		13. Is there a shower/locker room on-site?	No	Yes				
1.a. Single-feat	ure publically accessib	le park	[		Vending machines						
			[		14. Are there vending machines that sell						
	re publically accessible	•			beverages? (If no, skip to Question 15)	No	Yes				
_	accessible green space	•	[		14 a Water (no additives)	□ No	☐ Vaa				
	sports fields or jungle ically accessible space				14.a. Water (no additives)	No	Yes				
with temporary p	•	(e.g., sireet	] [		14.b. 100% Juice	□ No	Yes				
	ce adjacent to a school	ol?									
(If yes, print school n	ame):		No	Yes	14.c. Skim milk	No	Yes				
3. What is the se	tting of the play space	? (Circle one.)			14.d. Sports or energy drinks	∐ No	Yes				
Indoor	Outdoor	Indoor and	Outo	door	14.e. Diet soda	□ No	Yes				
					14.f. Sugar sweetened beverages (e.g., soda,						
Accessibility					fruit punch)	No	Yes				
4. Is there a park	king area on-site?				15. Are there vending machines that sell food						
(If no, skip to Questic			No		items? (If no, skip to Question 16)	No	Yes				
4.a. Is the parl	king area lighted?		□ No	Yes	15.a. Chips/crackers/pretzels (baked, low-fat)	□ No	Yes				
	eet parking next to the		No	Yes	15.b. Granola bars/cereal bars	No	Yes				
6. Is there a sidewalk on the street leading to the											
entrance?			No	Yes	15.c. Nuts/trail mix	No	Yes				
6.a. Is sidewalk/pedestrian lighting present?			No	Yes	15.d. Reduced fat cookies or baked goods	□ No	Yes				
Can a wheelchair or stroller easily enter into the				15.e. Candy, chips, cookies, snack cakes							
play space? (No	lay space? (No curbs or other barriers)		No	Yes	(sugar, salt, or fat)	No	Yes				
8. Is there bicycle	narking?		□ No	Voc	Signage and barriers to entry						
	lane, sharrow, or bike	signage on	No	Yes	16. Is there signage that indicates the park or	ПП	Тп				
p. 10 thoro a bino	ia.io, orianiow, or bine	5.9.1490 011	╷╶	$_{\perp}$	1.5. 15 thors dignage that indicates the park of						

Comments?

the play space?

the street(s) adjacent to the play space?

intersections next to the play space?

12. Is there a restroom/portable toilet?

11. Are there crosswalks present at all of the

10. Is there a bus/transit stop on a street adjacent to

Transtria LLC Page 1

Yes

No

No

No

Yes play space name?

17. Is there an entrance fee?

access to the play space?

18. Is there a gate/fence partially restricting

19. Is there a locked fence around the perimeter

or other physical barrier that prevents access?

No

No

Yes

Yes

Yes

# Section B: Playground features

For the following items, please take note and document each feature by condition		Nu		feature	ber of es with ting*					
and whether or not there is lighting.		Po	or			Avera	ge/Goo	d	Tally	Total
	Tally		Total		Tally		Т	otal	lally	TOtal
	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Outdoo	or Only
20. Check if no playground features are present in the play space.  ☐ No playground features (Skip to Section C.) (Leave the items below blank if there are no playground features present.)										
Swings/slides/monkey bars/sandboxes/gro	und ga	mes				T				
21. Swings, toddler										
22. Swings, youth										
23. Slides										
24. Monkey bars/climbing bars										
25. Other climbing feature Specify:										
26. Sandboxes										
27. Marked four-square courts										
28. Marked hopscotch areas										
29a. Other play areas Specify:										
29b. Other play areas Specify:										
*Do not tally the number of lights. Tally the number  30. What is the surface for the playground <i>(chell)</i> Foam/rubber	. 70		atures w	ith lightir	ng prese	ent.				

30.	Wha	at is the surface for the playground (check all that apply)?
		Foam/rubber
		Woodchip/mulch
		Sand
		Grass or dirt
		Paved spaces (concrete or asphalt)
		Other, specify:

Comments?

# Section C: Sports and recreation features

For the following items, please take note and document each feature by			Numbe	er of featu	res by (	condition			Numb features lighti	s with
condition and whether or		Po	oor			Averag	e/Good		Tally	Total
not there is lighting.	Та	lly	To	otal	T	Tally		otal	lally	Total
not there is lighting.	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Outdoor (	Only
31. Check if no sports or recreation features are present in the play space.  ☐ No sports or recreation features (Skip to Section D.) (Leave the items below blank if there are no sports or recreation features present.)										
Fields/Courts/Pools/Tracks/T	rails			_				_	,	
32. Fields, soccer only										
33. Fields, football only										
34. Fields, baseball only										
35. Fields, multi-use										
36a. Other fields										
Specify:										_
36b. Other fields										
Specify:										
37. Courts, basketball only										
38. Courts, tennis only										
39. Courts, volleyball only										
40. Courts, multi-use										
41a. Other courts										
Specify:										
41b. Other courts										
Specify:										
42. Pools (> 3ft deep)										_
43. Wading pools/spray grounds (≤ 3ft deep)										
44. Skateboarding features										_
(e.g., ramps, etc.)										
45. Exercise stations with										
signage										
46. Running/walking tracks										
47. Trails (If no trails, skip Questions 47a and 50 below.)										
47a. Two-way traffic										
on trails?										
48. Other features										
Specify:										
49. Other features										
Specify:										
	<u> </u>		. ,			1: 1.0:	<u> </u>			
*Do not tally the number of lights. 7  50. What is the surface for the final concrete	•		ports/recr	eauon leat	uies Will	пунину рге	sent.			

Comments?

## **Evaluation of Healthy Kids, Healthy Communities**

# Section D: Aesthetic features and amenities (outdoor play spaces only)

For each aesthetic feature and amenity	Condition	on of feature or majority of	of features?
below, document the presence and condition.	Poor	Average/Good	Not present
51. Green space			
52. Beach			
53. Decorative water fountains			
54. Drinking fountains			
55. Shelters			
56. Benches			
57. Picnic tables			
58. Trash containers			
59. Grills/fire pits			
60. Fruit and vegetable gardens			
61. Shade trees			
62. Other gardens and plants			
63. Other features Specify:			

# Section E: Trash and vandalism (outdoor play spaces only)

Indicate the amount of the following types of trash or vandalism.	None	A little/Some	A lot
64. Garbage/litter			
65. Broken glass			
66. Graffiti/tagging			
67. Evidence of alcohol or other drug use			
68. Sex paraphernalia			

#### Comments?

Please be sure to complete end time for the data collection at the beginning of this form.