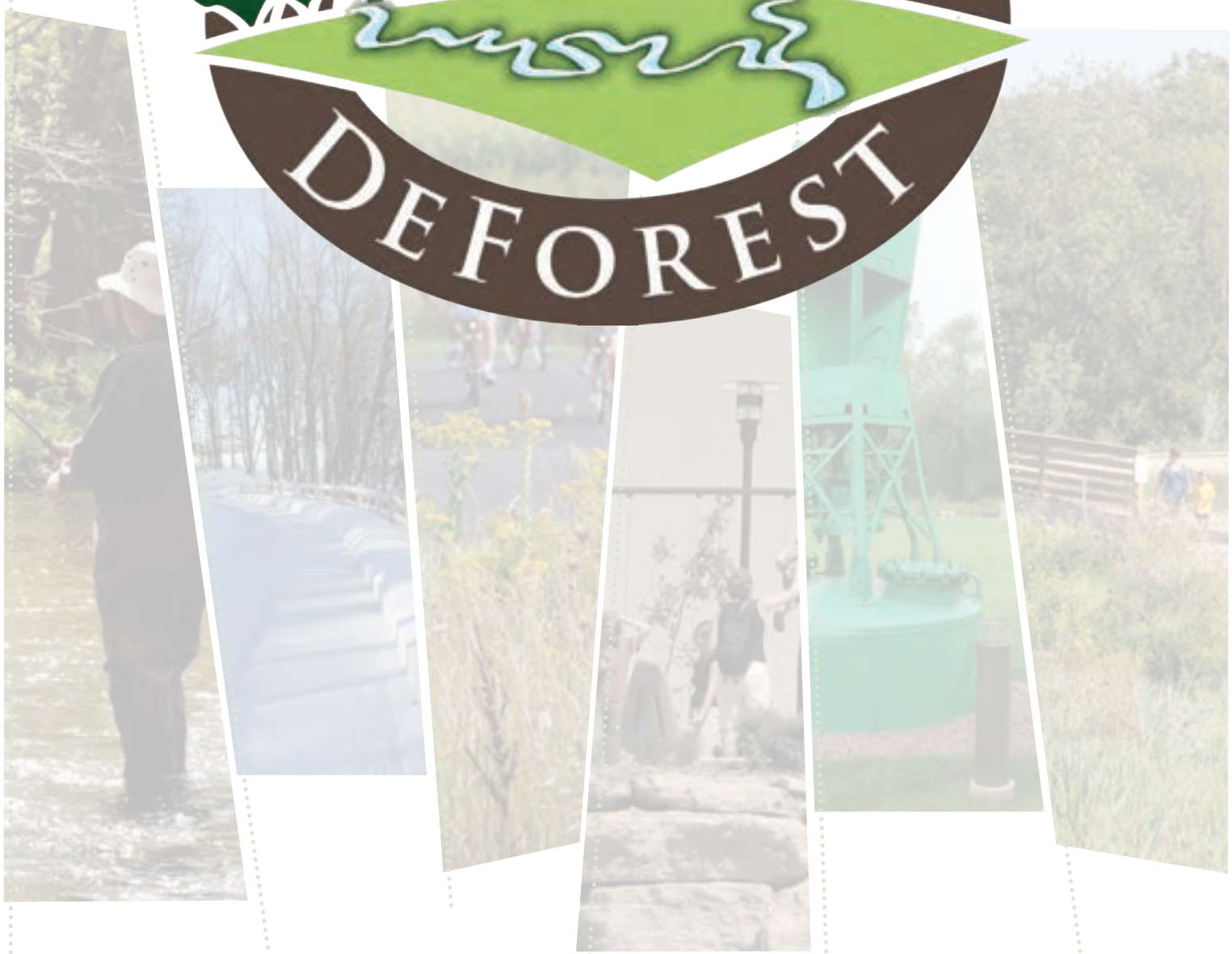

2020-2024

Park & Open Space Plan

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1 INTRODUCTION

This plan has been prepared to guide the Village of DeForest in obtaining, developing and maintaining public parks and outdoor recreation facilities. It also serves as a tool to encourage participation in grant programs through the Department of Natural Resources (DNR) and other agencies.

1.1 Executive Summary

This Park & Open Space Plan establishes DeForest's vision for the future growth and development of its outdoor recreation parks and facilities. The plan is intended to guide the community's outdoor recreation facility development through the year 2024 (though some recommendations may not be realized until after then). The existing park system in DeForest includes 21 parks and natural areas owned and maintained by the Village. Many of these parks are neighborhood scale parks with traditional recreational facilities such as playgrounds, sports facilities and open-air shelters. DeForest's community park, Fireman's Park, was recently improved to include an improved playground, a performance stage, restrooms and basketball courts.

1.1.1 Statement of Need

The Village of DeForest Park and Open Space Plan has been prepared to identify a strategy to provide residents and visitors with an array of recreational opportunities. As a working tool, the plan will provide officials with a clear understanding of park land inventory and future recreational facility needs. The plan also creates an orderly and prioritized strategy for making incremental improvements. The plan will allow the Village to request DNR and other public funding for implementing proposed park improvements. This plan updates the 2015 Park and Open Space Plan which will expire at the end of 2019.

1.1.2 Village of DeForest Public Services Department Mission Statement

The Village of DeForest Public Services Department is committed to enhancing the quality of life for all residents of the community. This is achieved through the development and maintenance of the public parklands and facilities, in addition to providing a variety of quality recreation programs, activities and special events.

1.2 Goals and Objectives

The following section identifies goals and objectives to guide the future development or expansion of parks and recreational facilities in DeForest.

Goal 1.2.1: Ensure that the Village's existing open space, recreational facilities and programs are designed to meet the special needs of all residents regardless of age, gender, or ability.

Objectives:

a. Evaluate conceptual site layout or develop a Master Plan prior to improvement and/or development of any public park to assure the highest and best use of existing Village resources.
b. Provide for barrier-free access in all new park facility construction and play areas.
c. Continue working towards compliance with accessibility requirements in existing facilities as facilities are improved and budget allows.
d. Comply with the Americans with Disabilities Act in Village communications with the public. This is in reference to the standard language that government agencies should use on their agendas and other public meeting documents stating that accommodation for those with disabilities who wish to attend the meeting.
e. Assure that all parks have multiple access points and that a large portion of the facility is publicly accessible and viewable rather than hidden by residential lots.

Goal 1.2.2: Continue to integrate programming and facilities development to correspond to recreational pursuits on a seasonal basis.

Objectives:

a. Create a menu of programs for each season to identify gaps in the calendar where programs are not offered.
b. Promote seasonal festivals in cooperation with local business and organizations.

Goal 1.2.3: Provide all residents with an opportunity to engage in recreational activities.

Objectives:

a. Provide at least one park and recreational facility within a safe and comfortable walking distance for all Village residents.
b. Acquire additional lands for active and passive recreational use based on current supply and demand, demands created by increasing populations, and environmental significance of the land.
c. Acquire at least 15 acres of land suitable for *active* recreation for every 1,000 new residents.
d. Acquire lands suitable for park and recreation use by explicitly stating acceptable characteristics of land in the parkland dedication ordinance. (refer to parkland dedication requirements in Village subdivision regulations)
e. Keep participant recreational activities fees affordable to allow broad participation and enjoyment of park facilities.
f. Establish a bicycle/pedestrian network to link existing and future parkland, employment centers, business districts, surrounding neighborhoods, and schools.

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Goal 1.2.4: Coordinate subdivision review with all departments responsible for providing or maintaining adequate park facilities.

Objectives:

a. Consult and incorporate the needs identified in the Park and Open Space Plan before subdivision plats are approved.
b. Evaluate land dedicated for parks to differentiate between land appropriate for active park use, land appropriate for open space only, and land requiring protection from development. Land requiring protection from development based on environmental constraints should be protected via development codes and should not be used to satisfy park dedication requirements
c. Continually evaluate and update the subdivision ordinance so that it adequately addresses the recreational needs of residents.
d. Preserve any proposed trail corridors in any review of new development.

Goal 1.2.5: Coordinate development efforts and the maintenance of recreational facilities between the Village and private organizations.

Objectives:

a. Encourage cooperative Village/School/Sports Association development projects to help improve and expand recreational opportunities throughout the community in a cost-effective manner.
b. Develop formal use/revenue/maintenance agreements between the Village and community/volunteer organizations to help operate and maintain public recreation facilities in the Village. Agreements should be reviewed periodically.
c. Participate in regional planning of parks and recreational needs, including the planning by surrounding municipalities, Dane County Parks Department and the Wisconsin Department of Natural Resources.

Goal 1.2.6: Stress the benefits of larger neighborhood and community parks that provide a wide range of facilities along with the development of small playground and mini park facilities.

Objectives:

a. Analyze the location, size and function of existing and proposed parks as annexations, residential development, or land use changes occur.
b. Communicate the importance of dynamic, multi-purpose parks and recreational facilities as a component of the Village's regional draw and economic development potential.
c. Provide an adequate supply of large sports fields and other athletic facilities to meet the growing needs of league sports teams and other organized recreational users.
d. Use park service area criteria to help determine the location of future park sites (see Chapter 2).
e. Develop new facilities to provide suitable recreational amenities to traditionally underserved age cohorts such as teenagers and senior citizens.
f. As development needs arise, install mini parks and smaller neighborhood parks in centrally located sites to promote neighborhood cohesion, provide a common gathering place and promote healthy living.

Goal 1.2.7: Provide residents with safe and reliable recreation equipment throughout the Village park system.

Objectives:

a. Accurately inventory existing park facilities and maintain an active log of facility improvements.
b. Continue funding the replacement of old and deteriorating recreation equipment in all Village parks.
c. Continually monitor and maintain existing park equipment to ensure its longevity and safety.
d. Periodically inspect playground equipment for safety and industry standard compliance. Audits should be completed by a National Playground Safety Institute certified inspector.

Goal 1.2.8: Use all available resources to further enhance the quality of the Village's park system.

Objectives:

a. Continually pursue state and federal funding programs, which can aid in the purchase and/or development of desired park system improvements.
b. Nurture the existing positive relationships with public and private organizations for donations and volunteer help to aid in park system development.
c. Update the Village's Park and Open Space Plan every five years to maintain grant eligibility.
d. Regularly review the Village Park Impact Fee section of the Village's subdivision regulations as development and demand for additional parkland grows.
e. Pursue the development of revenue generating recreational facilities and activities, which can aid in the development of new facilities and/or the maintenance of existing facilities.
f. Explore opportunities to coordinate management and operations of parks and open space on a regional level, for example by working more closely with the Village of Windsor and Dane County Parks.

Goal 1.2.9: Improve and expand the bicycle and pedestrian network.

Objectives:

a. Improve trail connectivity throughout the DeForest/Windsor area to parks, schools, and regional trails.
b. Establish wayfinding signage to allow new residents or visitors to effectively travel throughout the Village without the use of a motor vehicle.
c. Increase the availability and accessibility of bicycle parking at parks, commercial centers, employment centers, and key community destinations.
d. Coordinate with streets development to provide on-street linkages (such as bike lanes, sharrows, etc.) between trail segments and park facilities.

Goal 1.2.10: Recognize the importance of an adequate park budget, which can financially address existing park hazards and allow for future parkland acquisition and facility development.

Objectives:

a. Use the Park and Open Space Plan as a guide to establish yearly park budgets and the capital improvement program.
b. Invest funds for the development of facilities that will maximize existing park and recreation areas and provide recreational programs, with the intention of increasing park prominence, community visibility, and use.
c. Balance the need to acquire and develop new park and recreational facilities with the needs to improve, maintain, and renovate existing park sites and facilities.
d. Continue park donation programs (memorial benches, etc.) to enable philanthropy.

Goal 1.2.11: Continue a focus on the preservation and enhancement of the natural environment.

Objectives:

a. Protect environmental corridors and other sensitive ecological areas for stormwater and flood management areas.
b. Promote water-based recreation and education opportunities without over-exploiting the natural beauty of local lakes, ponds, and streams.
c. Continue efforts to improve vegetation and water quality in the Yahara River and its watershed.

d. Collaborate with other groups and organizations on mutually beneficial programs and planning efforts.

Goal 1.2.12: Utilize multimedia to advertise, promote, and educate users about Village owned parks.

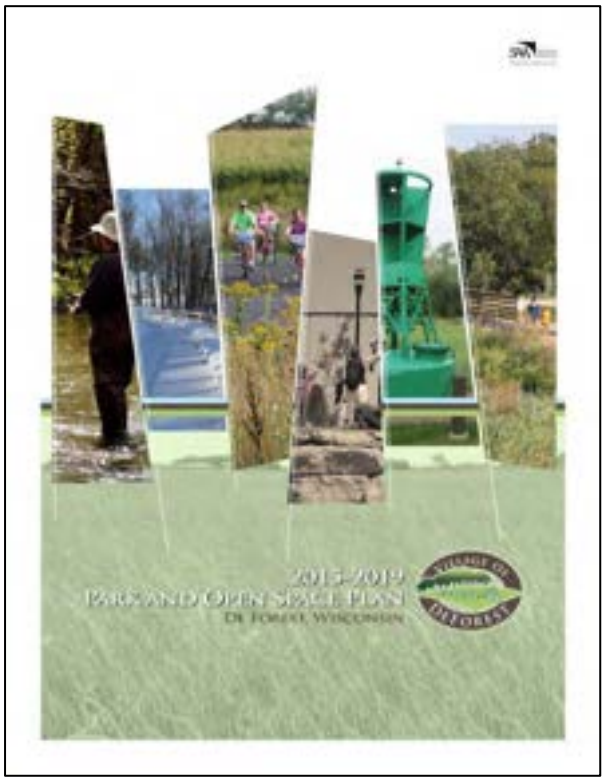
Objectives:

a. Consider developing a more interactive parks website that allows users to select parks and view pictures and information specific to each site.
b. Announce and promote new facilities and playground installations.
c. Encourage neighborhood festivals at local parks to increase familiarity and appreciation for neighborhood parks.
d. Utilize social media to publicize Village park news and events.

1.3 Review of Past Planning Documents (Local, Regional & State)

1.3.1 Village of DeForest Park and Open Space Plan (2015)

This update to the 2011 Park and Open Space Plan set forth the Village of DeForest's vision for future growth and development of its outdoor recreation parks and facilities. It was intended to guide the Village's outdoor recreation facility development to the year 2019. The plan includes recommendations for all existing Village public outdoor recreation sites.



1.3.2 Village of DeForest Comprehensive Plan (2015, Amended 2016 & 2018)

This plan is an update to the 2006 Village Comprehensive Plan and also replaces the 2009 Downtown Revitalization Concept & Implementation Strategy Plan. The goal of the plan is to guide the growth, development and preservation of the Village over the next 20 years. Areas of focus include economic development, land use, transportation and housing. Recommendations from the Comprehensive Plan related to Village parks, recreation and natural resources include:

- Refine and protect environmental corridors
- Update, communicate and uniformly implement environmental regulations
- Implement low impact development standards
- Maintain emphasis on water conservation
- Encourage land owners and developers to consider the preservation of scenic views
- Maintain the urban tree inventory on public lands
- Cooperate on the protection of regional natural resources and systems
- Complete 5-year update to Village's Park and Open Space Plan
- Close remaining gaps in trail network to form continuous off-street loops and continuous out and back routes
- Develop an athletic complex
- Continue to explore the siting and development of an aquatic center
- Explore expanded options for walking and biking in DeForest

1.3.3 Ecological Assessment & Management Plan (2015)

In 2015, an ecological assessment was conducted of the Village of DeForest's conservation parks, which include Western Green Park, Veterans Memorial Park and Bakke Conservancy. The Ecological Assessment & Management Plan records results of the field visits describing the natural communities in the conservancies and providing a plan to guide management actions necessary to preserve and enhance diversity of plant and animal species in these parks. The following action items were identified as high priority:

- Search for and eradicate Japanese hedgeparsley colonies
- Continue to eradicate crown vetch colony
- Continue maintenance of native planting in oak woodland
- Continue to foliar-treat willow re-sprouts and seedlings with herbicide
- Eradicate white sweet clover from recently forestry-mowed areas
- Eradicate cottonwood seedlings and Canada thistle in the infiltration basins
- Eradicate wild parsnip and Canada thistle
- Plant native vegetation in the wildlife scrapes

1.3.4 Upper Yahara River User Analysis, Future Opportunities, and Priority Projects (2008)

The Friends of the Yahara River Headwaters, Inc. commissioned a report to analyze current use, access, and users of the Upper Yahara River and to identify opportunities for advancing river health and expanding river-related activities. The report suggests several geographical areas of opportunity for future activities and improvements associated with the Upper Yahara River, including Conservancy Place, Lake Windsor Golf Course in the Village of Windsor, trails and trailheads, and Downtown DeForest. The report includes detailed recommendations for downtown river projects/activities, such as downtown path connections, improvements at Veterans Memorial Park, a path connection and trailhead at Holum Street, and a kiosk/interpretive structure at either Veterans Memorial Park or the proposed Holum Street trailhead area. Many of these ideas were transferred to the Village's Downtown Strategy Plan, which in 2015 was incorporated into the Comprehensive Plan. In addition, a potential rain garden was proposed for the Village Community Center; however, this location was determined to be infeasible and the rain garden was instead installed in front of Village Hall in 2009.

1.3.5 Yahara River Planning Committee Strategic Plan (2004)

The Village received a River Protection/Planning Grant from the Wisconsin Department of Natural Resources to create a Strategic Plan for the Upper Yahara River Corridor. This report was completed in October 2004 and continues to be a reference for the development of strategies that improve water quality, restore habitat, and initiate streambank restoration and protection projects. Key recommendations from the report include the following:

- Focus on efforts to reduce non-point pollution through continued dialogue and cooperative efforts with contributing Drainage Districts, agricultural landowners, neighboring municipalities, Dane County Land Conservation Department and other watershed groups (such as Token Creek Watershed Association, and the Friends of Yahara River Headwaters, Inc., Friends of Lake Wingra) in primarily agricultural areas.
- Implement no-mow buffer zones to reduce sedimentation and the flow of nutrients into the river. Education and cooperation of adjacent riparian property owners in residential and urban areas will also be necessary.

1.3.5 Safe Routes to School Plan and Sidewalk Policy (2011)

Working with the DeForest Area School District and the then Town of Windsor, the Village completed a Safe Routes to School Plan. That Plan identifies ways to improve bike and pedestrian access to the three elementary schools and one middle school in the DeForest-Windsor urban area. For off-street trail recommendations, the Village closely coordinated that Safe Routes to School Plan with the 2011 Park and Open Space Plan. Based in part on the recommendations of both plans, and recent community discussions about sidewalks, the Village adopted a sidewalk policy.

1.3.6 Dane County Parks and Open Space Plan (2018-2023)

The Dane County Parks and Open Space Plan (2018-2023) seeks to identify significant cultural, historical and natural resources that should be considered for possible protection, preservation or restoration through 2023. The plan identifies countywide recreation needs and Dane County's role in providing facilities to meet anticipated demands. The primary goals of the plan include:

- Provide sufficient park land and recreation facilities to meet the demand of Dane County residents without adversely affecting existing natural resources.
- Preserve for posterity the characteristics and diversity of the natural, cultural and historical resources of Dane County.
- Preserve large tracts of natural and agricultural rural landscapes at urban fringe areas that will provide regional resource protection and recreation benefits.
- Provide volunteer opportunities and stewardship education to all county residents.
- Protect lakes, rivers and streams, including shorelines, wetlands, high infiltration areas and associated vegetative buffers to maintain high water quality, manage water quality and sustain water related recreation throughout Dane County.
- Provide an inclusive parks system for all Dane County residents regardless of age, race, gender or gender identity, national origin, ethnicity, culture, religion, sexual orientation, political affiliation, place of residence, veteran status, physical ability, cognitive capacity, or family, marital, or economic status.

1.3.7 Wisconsin's State Outdoor Recreation Plan (2019-2023)

Since 1965, the State has updated the Statewide Comprehensive Outdoor Recreation Plan (SCORP) in an attempt to classify, measure, and ultimately provide for the preferences and needs of a statewide recreating public. Goals include the following:

- Improve integration of outdoor recreation interests and needs in land use and other relevant planning efforts.
- Continue to provide and enhance access to Wisconsin recreational land and waters.
- Promote outdoor recreation as a means of improving public health among Wisconsinites.
- Establish great urban parks and community green spaces.

1.4 Summary of the Planning Process

1.4.1 Work Plan and Timeline

This plan was developed between March and August 2019. The process included an initial project scope meeting with Village staff, a community survey and input from local stakeholder groups. All parks were audited by Ayres staff with findings identified on inventory sheets.

1.4.2 Meetings

Kick-Off Meeting – March 11, 2019: An overview of the project and a timeframe for project completion was presented. The meeting provided an opportunity for Village representatives to give input about the planning process and the future of Village parks.

Field Work – April 24, 2019: All sites were audited by Ayres Associates staff and issues were photo documented.

Meeting #2 – June 24, 2019: A meeting was held to review the draft recommendations of the plan by Village staff.

Meeting #3 – August 14, 2019: A meeting was held to present the plan and maps to Village staff and to give an opportunity for review before the plan is submitted for final approval.

Meeting #4 – September 3, 2019: Presentation of the plan to the Village Board.

Meeting #5 – September 24, 2019: Presentation of the plan to the Village Planning and Zoning Comminssions.

1.4.3 Online Survey

During the development of this plan, an online survey was created to record public opinion concerning key issues and opportunities for enhanced use and enjoyment of parks in DeForest. The survey was used to formulate recommendations in Chapter 3. The survey went live on April 14, 2019, with a web link posted on the Village website home page. The survey was closed for tabulation of results on May 30, 2019. The survey had an outstanding response from the community with a total of 980 individuals completing the survey, 87% of whom were Village of DeForest residents. General findings of the survey are summarized on the following pages. Some of the key potential areas of improvement reflected in the survey results include:

- There is a strong desire among survey respondents for expanded aquatic facilities in DeForest
- There is a belief that there are not adequate restrooms provided in Village parks
- There is an issue with parking availability in some parks (Especially Fireman's Park and Conservancy Commons)
- 71% of survey participants said they would be willing to pay more in taxes or pay user fees for additional park facilities

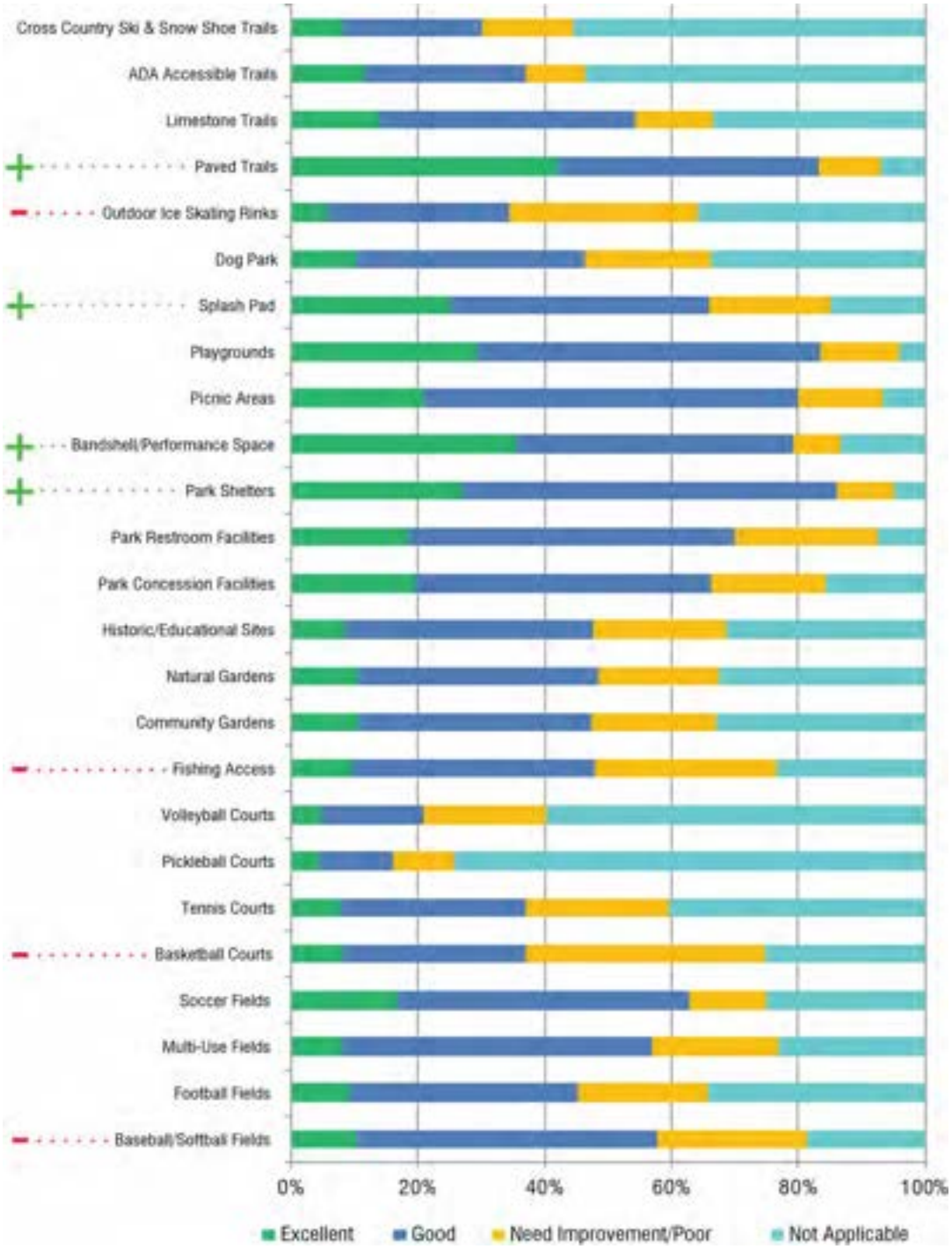
The Village of DeForest Public Services Department is committed to enhancing the quality of life for all residents of the community. This is achieved through the development and maintenance of the public parklands and facilities, in addition to providing a variety of quality recreation programs, activities and special events.

Village of DeForest Public Services Department Mission Statement

A more detailed analysis of survey results can be found on the following pages. The complete survey results can be found in **Appendix C**.

Survey participants were asked to rate the overall condition of recreational facilities in Village parks. Items like park shelters, performance areas, splash pads and paved trails were the most common facilities rated "excellent" by respondents. Facilities that were most commonly rated "need improvement" included outdoor ice-skating rinks, fishing access, basketball courts and baseball/softball fields. See **Chart 1** for complete results.

Chart 1 – Please indicate the overall condition of each type of recreational facility that your community offers.

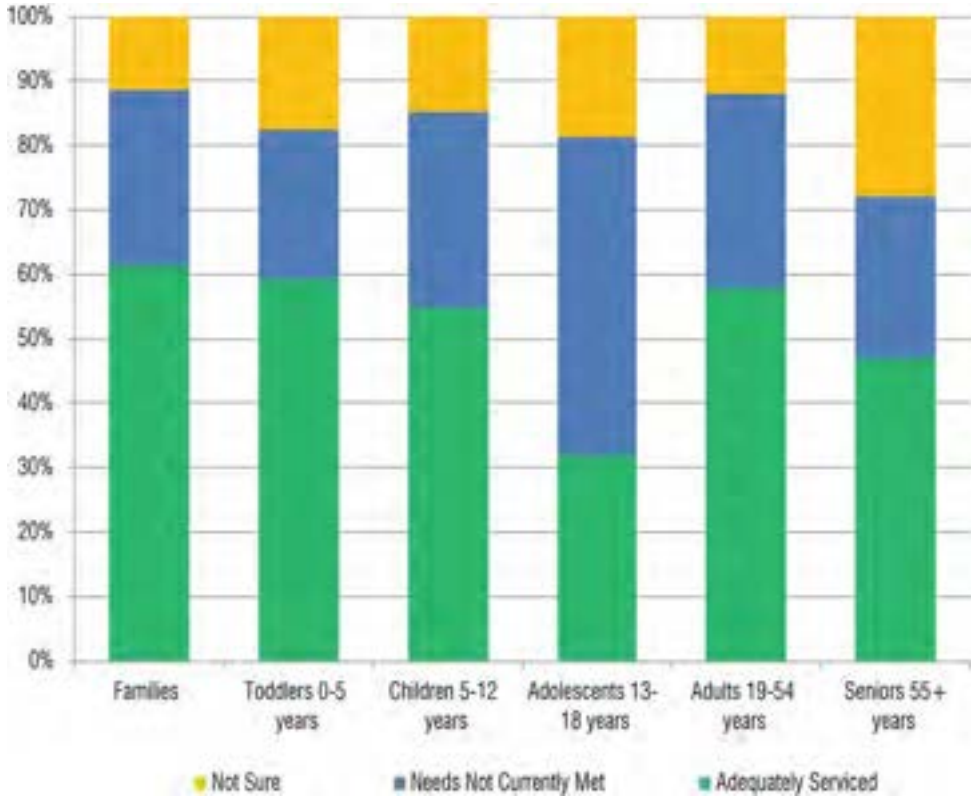


Survey participants were asked if the quantity of any facilities/amenities in DeForest met the demands of the community. The most frequently chosen facility that did not meet the demands of the community was community pool. This was followed by splashpads, basketball courts and fishing access. Soccer fields, park concessions, park shelters and performance spaces were most commonly chosen as being in sufficient quantity to meet demand.

Chart 2 – Please indicate whether DeForest has sufficient quantities for each type to meet demand.

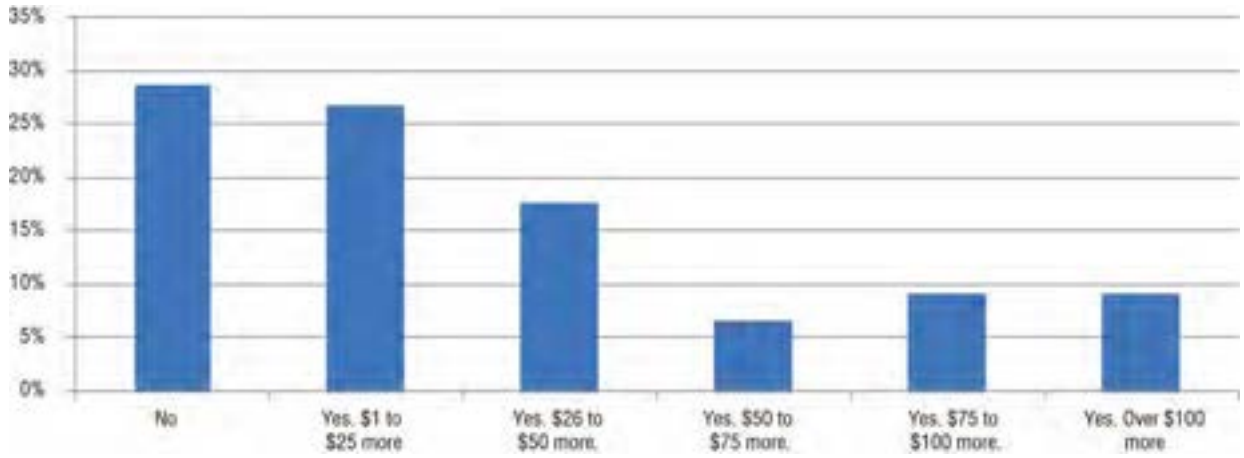
Survey participants were asked if the needs of any age group were not met by the existing facilities in DeForest parks. Adolescents (ages 13 - 18) were the age group the most people (49.4%) felt were not adequately served by park facilities. See **Chart 3**.

Chart 3 - Considering the various age groups of people in the DeForest area, please indicate whether the existing facilities adequately meet their needs.



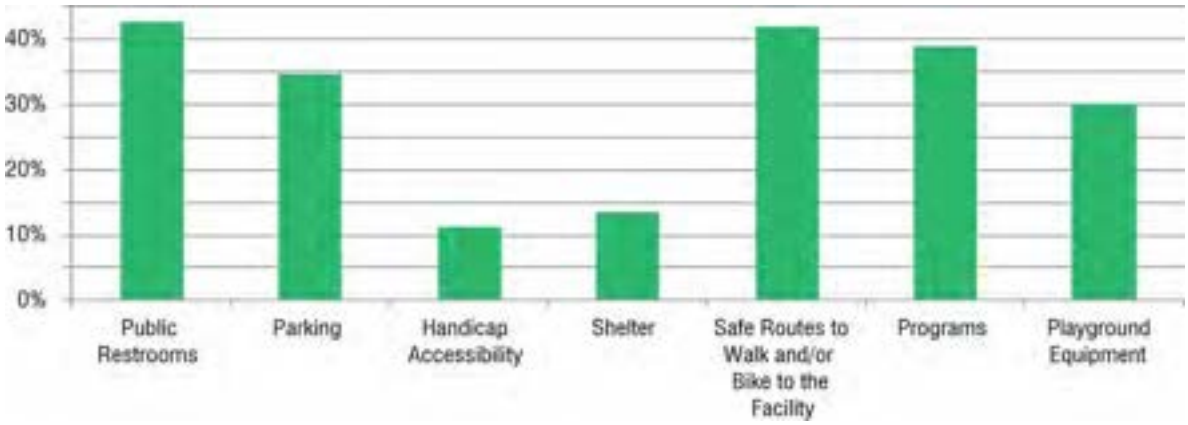
Survey participants were asked if they would be willing to pay user fees or pay more in taxes for additional park facilities in DeForest. 71% of survey respondents said they would be willing to pay some additional amount for park improvements. See **Chart 4**.

Chart 4 – Would you be willing to pay more in taxes or user fees for that facility/service? If yes, how much more would you be willing to pay per year?



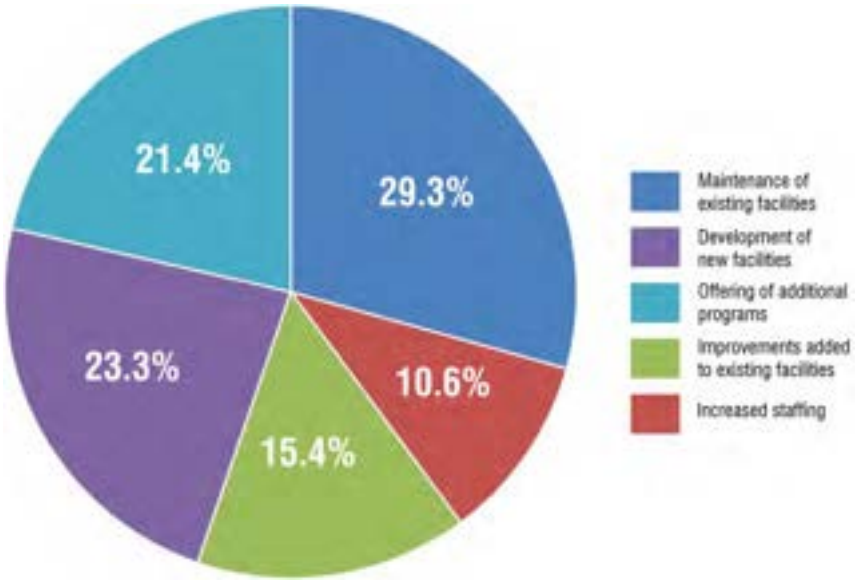
Survey participants were asked if any general park components at Village parks need improvement. “Public Restrooms” was the most commonly selected item followed closely by “Safe Routes to Walk and/or Bike to the Facility”. See **Chart 5** for survey results.

Chart 5 – Please indicate which of the following components at existing park facilities in DeForest need improvement. Select all that apply.



Survey participants were asked to rank five types of general park improvements in order from most to least important. 29.3% of respondents felt “Maintenance of Existing Facilities” was the most important type of improvement. This was followed by “Development of New Facilities” (23.3%), “Offering Additional Programs” (21.4%), “Improvements Added to Existing Facilities (15.4%), and “Increased Staffing” (10.6%).

Chart 6 – Highest Priority Improvements



Other survey results:

- Survey participants were asked what specific facilities were desired but not provided in DeForest. The most frequent response by far was community pool. Other common responses were splash pad, tennis courts and trails.

- A splash pad was chosen as the most desired facility to be constructed in the next phase of Fireman's Park improvements.

- Survey participants were asked if there were any specific facilities in DeForest parks that need improvement. Some of the most common responses included versions of the following:

    - Liberty Land Park needs restrooms
    - Conservancy Commons Park needs parking
    - Fireman's Park needs additional parking
    - Complete trail improvements in Western Green Park

- 64% of survey respondents participate in DeForest recreational programs

- The most common programming survey respondents and their families participate in are youth sports, swimming lessons and outdoor activities.

- Of those survey respondents that said they don't participate in recreational programming, "Other responsibilities/No time" was the most common reason why they do not. Other common responses were "Activities offered at inconvenient times" and "No interest in programs offered".

- Survey participants would like DeForest to offer more youth after school programs, family activities, lifetime sports and outdoor recreational programming.

- Survey participants prefer to receive information about DeForest parks and recreational programming digitally.

- 9% of survey participants said that a member of their household has a disability as defined by the Americans with Disabilities Act (ADA). The most popular accommodations those people would like to see in Village parks are adaptive equipment, wheelchair access and additional staff.

See **Appendix C** for the complete survey results.

1.5 DeForest Demographics

1.5.1 Social Characteristics

This section presents social factors that are important to understanding the community and its recreation needs. Particularly important to planning for the adequate provision of parks and open spaces are population trends and projections over the planning period (5-10 years) and the age characteristics of potential park users.

Population Trends and Projections

There is a direct relationship between population and the need for parks and recreational space. Predicting how the population might grow in the future provides important information about the amount of new parkland and recreational facilities that will be needed to serve the new populations.

According to data provided by the U.S. Census Bureau, DeForest has experienced steady population growth over the last 40 years. The population increased 45% between 1980 and 1990 and 51% between 1990 and 2000. Since 2000, percentage growth has slowed somewhat, with a population increase of 21% from 2000 to 2010 and 8% from 2010 to 2017. There was an overall population increase of 6,296 people between 1980 and 2017.

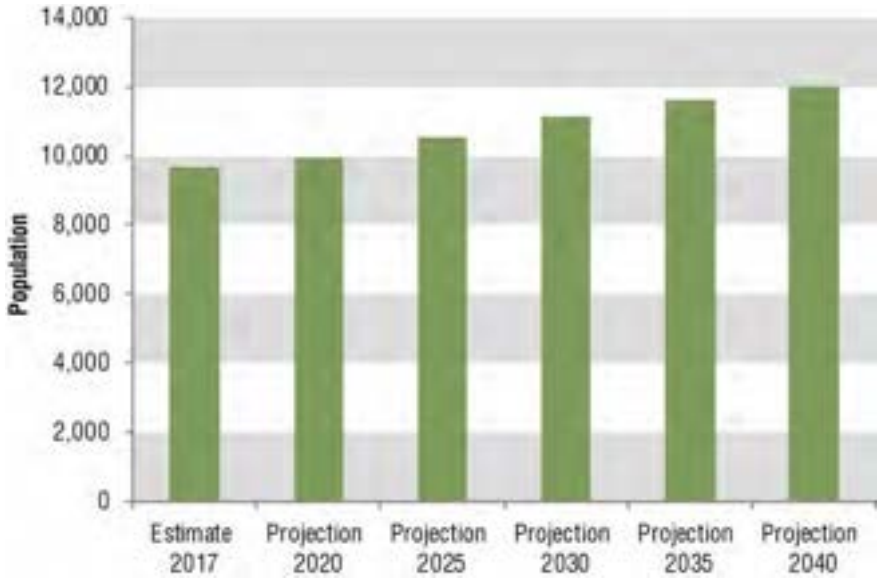
The Wisconsin Department of Administration (DOA) projects that DeForest will experience a 24% population growth between the years 2017 and 2040 resulting in an additional 2,347 residents. Other sources suggest that DeForest's growth may be greater. Population projection information for DeForest and comparable communities is provided in **Table 1.1**. Current National Recreation and Park Association (NRPA) standards recommend a minimum of 10.5 acres of dedicated parkland per 1000 residents. Chapter 2 will discuss this standard as it applies to the current and future populations.

Table 1.1: Population Projections for the Village of DeForest and Comparable Communities (2040)

Name of Municipality	Estimate 2017	Projection 2020	Projection 2025	Projection 2030	Projection 2035	Projection 2040	Percentage Change 2017-2040
V DeForest	***9,663***	***9,945***	***10,560***	***11,150***	***11,610***	***12,010***	***24%***
C Verona	12,303	12,800	13,960	15,070	16,010	16,850	37%
V Mount Horeb	7,121	7,625	8,040	8,415	8,700	8,945	26%
V Waunakee	13,535	13,850	14,920	15,940	16,780	17,530	30%
V Oregon	9,917	10,300	10,980	11,620	12,130	12,580	27%
V Cottage Grove	6,650	7,190	7,845	8,465	8,990	9,470	42%

Source: Wisconsin Department of Administration Estimates and Projections (2013, 2017)

Village of DeForest Population Projections (2017 – 2040)



Source: Wisconsin Department of Administration Estimates and Projections (2013, 2017)

Note: The Wisconsin DOA estimate of population is shown for 2017. All other years show the predicted population based on Wisconsin DOA population projections made in 2013.

Ethnic Background

The 2017 American Community Survey 5-Year Estimate indicated the largest percentage of DeForest residents (92.6%) were "White". The second largest group was "Asian" (3.0%), followed by "Two or more races" (2.9%), "Black or African American" (<1%), "American Indian or Alaska Native" (<1%) and "Some other race" (<1%).

Employment/Unemployment

The 2017 American Community Survey 5-Year Estimate estimated the unemployment rate in DeForest was 2.6%. That rate is lower than the statewide unemployment rate of 4.7%.

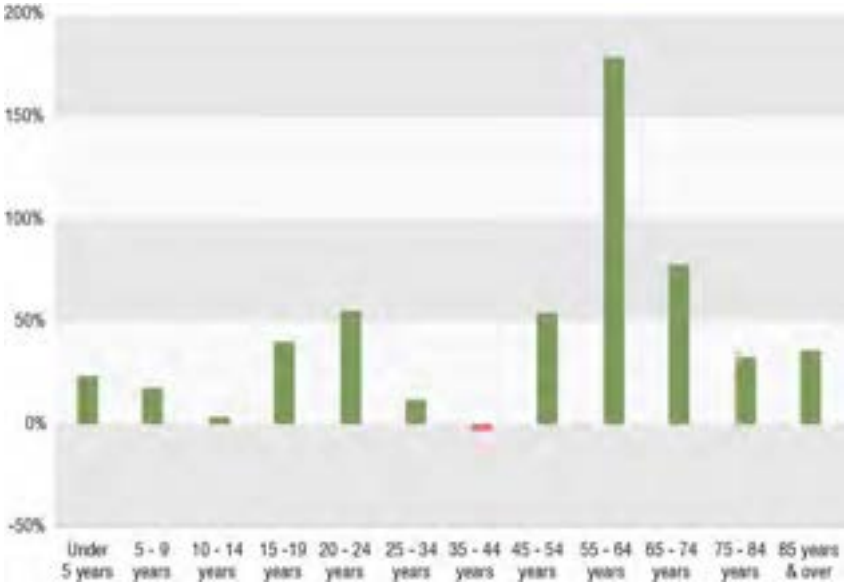
Age

Age distribution in DeForest is shown in **Table 1.2**. Age cohorts are an important consideration when determining park facilities because different age groups utilize different recreation facilities. For example, in 2017 there were an estimated 1,093 people between the ages of 55 and 64. This represents an increase of 178% in the population of this age group from the year 2000. The number of park facilities designed for this age group should be reassessed as there are many more people in this age group in DeForest using park facilities than there were in 2000. Facilities such as hiking trails, pickleball courts and park shelters are used by this age group and may be needed in higher quantities now than they had been in the past.

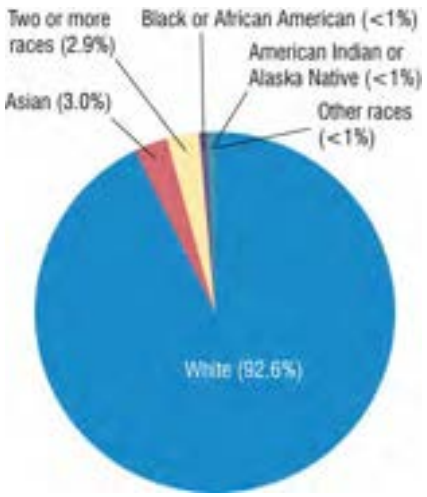
Table 1.2: Age Distribution, 2000-2017
DeForest, Wisconsin

	2000		2017		Percent Change
	Number	Percent	Number	Percent	2000-2017
Under 5 years	632	8.6	775	8.0	23%
5 to 9 years	686	9.3	806	8.3	17%
10 to 14 years	632	8.6	654	6.8	3%
15 to 19 years	507	6.9	709	7.4	40%
20 to 24 years	304	4.1	472	4.9	55%
25 to 34 years	1,274	17.3	1,409	14.6	11%
35 to 44 years	1,394	18.9	1,343	13.9	-4%
45 to 54 years	952	12.9	1,469	15.2	54%
55 to 64 years	393	5.3	1,093	11.3	178%
65 to 74 years	299	4.1	530	5.5	77%
75 to 84 years	225	3.1	298	3.1	32%
85 years and over	70	1.0	95	1.0	36%
Total Population	**7,368**		**9,663**		**31%**

Source: 2000 Census (SF-1), 2017 ACS 5 Year Estimate



Population Change (2000 – 2017)



Ethnic Background

2 ANALYSIS OF THE VILLAGE OF DEFOREST PARK AND OPEN SPACE SYSTEM

This chapter analyzes the existing park system in the Village of DeForest. Parks are inventoried and classified based on standards established by the National Recreation and Park Association (NRPA).

2.1 DeForest Park and Open Space Facilities

The information for this section was gathered from site visits conducted by Ayres Associates, discussion with Village staff and review of past planning documents. A Facility Matrix for the park system is located in **Appendix A**. See **Appendix B** for a map of park locations.

2.1.1 Mini Parks

Mini parks include specialized facilities that serve a concentrated population or specific group such as tots or senior citizens. Typical size is 2 acres or less but parks may be categorized as mini parks simply based on the type and quantity of facilities they offer. Complete park descriptions, inventories and recommendations for improvements for all parks can be found in Chapter 3.

- *Dahl Park*
- *Hank's Hollow Park*
- *O'Donnell Park*
- *Stargazer Park*
- *Sunnybrook Park*
- *Tierney Park*
- *Village Square Park*

2.1.2 Neighborhood Parks

Neighborhood parks are areas for multiple and sometimes intensive recreational activities. Facilities may include athletic fields, sports courts, playgrounds, skate parks, trails, picnic areas and splashpads. Typical size is between 3 to 10 acres.

- *Conservancy Commons Park*
- *Liberty Land Park*
- *Veterans Memorial Park*
- *Western Green Park*
- *Yahara Park*

2.1.3 Community Parks

Community parks are areas of diverse recreational activity and may include amenities such as athletic complexes, trails and large swimming pools. Community parks are typically larger than 10 acres but may vary depending on facilities offered.

- *Fireman's Park*

2.1.4 Conservancy, Open Space and Natural Areas

Conservancy parks and natural areas are established for protection and management of the natural or cultural environment with recreational facilities as a secondary objective. Open spaces are areas that currently offer no recreational facilities but have been reserved as future active or passive park lands.

- *Bakke Conservancy*
- *Chapel Green Park*
- *Marvin and Marie Schweers Natural Area*
- *Upper Yahara River Corridor*
- *Reigstad Park*

2.1.5 Special-Use Parks

Special use parks are areas for specialized or single purpose recreational activities such as athletic complexes, golf courses, campgrounds, nature centers and dog parks. They may also be used to designate areas that are primarily used as event space, general gathering areas, expanded trail corridors or plaza space.

- *DeForest Athletic Complex*
- *Marvin and Marie Schweers Dog Park*
- *Rivers Turn Park*

2.1.6 School Recreational Facilities

Although not maintained by the Village, school facilities offer community residents with additional outdoor recreation activities. School parks often contain structured play equipment, open space and athletic fields. This plan will not offer recommendations for improvements in these school parks, but they should be considered when analyzing facilities available to the community. The DeForest Area School District maintains the recreation facilities of four schools in the Village that are open for public use.

- *Eagle Point Elementary School*
- *Yahara Elementary School*
- *DeForest Area Middle School*
- *DeForest Area High School*

2.1.7 Trail Corridors

A linear park or trail corridor is an area designated for one or more modes of recreational travel such as hiking, biking, snowmobiling, etc. See **Map 5** in **Appendix B** for existing trail locations.

Several trail corridors exist within the Village and additional trails are proposed as land development continues. The Village trail system is planned to connect with adjacent communities and eventually the City of Madison, City of Sun Prairie, Village of Waunakee, and Goose Pond in Columbia County. The Village also maintains the Yahara River Water Trail providing residents paddle sports opportunities when water levels are high.

The Village's named trail facilities include:

- DeForest-Windsor Trail (Liberty Land Park/Antique Acres subdivision)
- Delkamp Trail (North Stevenson Street)
- Mayapple Trail (Mayapple Circle)
- Western Green Trail (Western Green Park)
- Upper Yahara River Trail (Windsor Road to South Street)
- River Road Trail (Woods Glen Court to W North Street)

2.1.8 Nearby County and State Facilities

Dane County Parks

Schumacher Farm

This unique facility is located on Highway 19 and is approximately 117 acres in size. Schumacher Farm features an outdoor museum dedicated to the history of local farm life and offers extensive programming for schools groups, private organizations, and the public. Public recreation opportunities include cross-country ski trails, picnicking, and hiking.

Token Creek Park

Token Creek County Park is a 427-acre park located immediately south of the DeForest Village limits and is accessed via Highway 51. The park has a 43-unit campground as well as a group camping area with restrooms and shower facilities. The largest disc golf course in the county is located in the park and is a regional draw. Multiple shelters offer extensive picnic and gathering opportunities throughout the park. Additional park amenities include park and ADA fishing pier, two playgrounds, hiking trails, and more than 270 miles of snowmobile trails. A master plan was recently completed for the park and includes further development recommendations.

Yahara Heights County Park/Cherokee Marsh Natural Resource Site

The Yahara Heights/Cherokee Marsh Natural Resource Site is a 385-acre property containing the largest remaining wetland in Dane County and the major wetland in Lake Mendota's Watershed. Over 3,000 feet of water frontage provide wildlife habitat, fish spawning grounds and a sedimentation area for Lake Mendota. Recreational opportunities include a 20-acre pet exercise area and a canoe and kayak launch. The site can be accessed off of River Road near the intersection of Highways 113 and M.

Annexed Land West of Interstate 39/90/94

The Village recently annexed property bounded by River Road, the Interstate and Highway 19. This area will likely be the site of future park improvement projects and may serve as a corridor connecting recreational trails in DeForest to Madison, Sun Prairie and the Cherokee Marsh State Natural Area.

State Parks

Governor Nelson State Park
Governor Nelson State Park is a day use park, located on Lake Mendota, that offers a sand beach, boat launch, fishing facilities, picnic areas, playground equipment as well as an extensive trail network and prairie restorations. This park is a major destination for skiing, hiking, swimming, boating and fishing. Primary access to the park is located on the southeast side of County Highway M, about 2 miles west of State Highway 113 and 8 miles west of Interstate 90/94.

Madison Audubon Society

Goose Pond Sanctuary
The Madison Audubon Society owns this 660-acre natural area north of the Village in Columbia County. Goose Pond Sanctuary contains one hundred acres of wetland habitat and 400 acres of tall grass prairie. This restored habitat is the site of over 250 species of birds, seven endangered and threatened plant species and is a waterfowl migration stopover in the spring and fall. The sanctuary has been named one of Wisconsin's Watchable Wildlife Areas and is a designated State Natural Area.

2.2 Parkland Classification Analysis

The number and type of parks and recreation facilities needed within a community are dependent on the demands of the local residents. Identifying the recreational needs and wants of community residents provides the justification for funding the acquisition and development of new facilities as well as for the maintenance of existing recreational facilities.

2.2.1 Parkland Classification

A parkland classification system is a useful tool to determine if an existing park system serves the needs of a community. The definitions in this document are adapted from the NRPA classification system. Total acreage alone does not guarantee that the community's park needs are being met. A community should have a number of different types of parks to serve the various needs of the residents. They may have "met the standard" in acreage through the creation of one large park, but the community's needs can best be met through a variety of recreational activities. **Table 2.1** explains the seven park classifications most commonly used in the NRPA system, their associated use, service areas, desirable size and desired acres per 1,000 population. A well-rounded park system offers at least one park in each classification.

The term "active recreation" is currently used to define open spaces that contain athletic fields (baseball, soccer, football, etc), basketball and tennis courts, swimming facilities, and other traditional park sports. The Village is interested in acquiring new active recreation park lands as residential patterns continue to expand but must balance the need for recreational facilities with the staffing and budget limitations in place. As required by Village ordinance, land must be dedicated (or fee collected in lieu of) to the Village as part of residential development.

Table 2.1 National Recreation and Park Association Parkland Classification System

Component	Use	Service Area	Desirable Size	Acres/1,000 Population
A. Local/Close-to-Home Space				
Mini Park	Specialized facilities that serve a concentrated or limited population or specific group such as young children or senior citizens.	Less than ¼ mile radius	2 acres or less	0.25 to 0.5
Neighborhood Park	Areas for intense recreational activities, such as field games, court games, crafts, playground apparatus area, skating, picnicking, wading pools, etc.	¼ to ½ mile radius to serve a population up to 5,000 (a neighborhood)	3-10 acres	1.0 to 2.0

Community Park	Areas of diverse environmental quality. May include areas suited for intense recreational facilities, such as athletic fields and large swimming pools. May be an area of natural quality for outdoor recreation, such as walking, viewing, sitting, picnicking. May be any combination of the above.	Several neighborhoods. 1 to 2-mile radius	10+ acres	5.0 to 8.0

Total Local Space = 6.25 to 10.5 AC/1,000

Table 2.1 (Continued) NRPA Parkland Classification System

Component	Use	Service Area	Desirable Size	Acres/1,000 Population
B. Regional Space				
Regional/ Metro-politan Park	Areas of natural or ornamental quality for outdoor recreation, such as picnicking, boating, fishing, swimming, camping, and trail uses; may include play areas.	Several communities.1-hour driving time	200+ acres	5.0 to 10.0A
C. Space that may be Local or Regional and is Unique to Each Community				
Linear Park	Area developed for one or more varying modes of recreational travel, such as hiking, biking, snowmobiling, horseback riding, cross-country skiing, canoeing and pleasure driving. May include active play areas. (NOTE: the above components may occur in the "linear park")	No applicable standard	Sufficient width to protect the resource and provide maximum use	Variable
Special Use	Areas for specialized or single purpose recreational activities, such as golf courses, athletic complexes, nature centers, skateparks, marinas, zoos, conservatories, arboreta, display gardens, arenas, outdoor theaters, gun ranges, or downhill ski areas, or areas that preserve, maintain, and interpret buildings, sites, and objects of archeological significance. Also, plazas or squares in or near commercial centers, boulevards, parkways.	No applicable standard	Variable	Variable
Conservancy	Protection and management of the natural/cultural environment with recreational use as a secondary objective.	No applicable standard	Sufficient to protect the resource	Variable

2.2.2 Level of Service Standards

Once a community's existing parks have been classified, a comparison can be made between the national standard for each park type and existing park acreage. While there is no formally established method to determine the Level of Service provided by the existing facilities, the following parameters should be considered.

Indicators	Social Environmental Economic
Acreage	Population standards (Acres per 1000 population) Benchmarking
Facilities, Activities, Capacity	Population standards Demographic analysis Neighborhood area activities Supply and demand
Access	Walking, bicycling, driving and Transit Parks Facilities
Quality	Evaluation Mapping distribution
Programs	Relevancy, quality and variety Scheduling Mapping distribution

The commonly used NRPA standard for park acreage per 1,000 population is 10.5 acres. For this plan, the Village-defined standard of 15-acres/1,000 population (found in the 2011 & 2015 POSP) is used as a basis for determining recommended acreage needs. This acreage should be distributed among park types as follows:

Table 2.2 Recommended Park Standards

Mini Parks	0.5 acres/1,000 population
Neighborhood Parks	4.5 acres/1,000 population
Community Parks	10 acres/1,000 population
Total	15 acres/1,000 population

Park acreage totals in DeForest compared to the established Village standards are shown in **Chart 2.1**. Applying the ratios from **Table 2.2** to the Village's estimated 2017 population of 9,663, the park acreage standards (shown as the green bars in **Chart 2.1**) are established. The Village is below the standard in terms of community park and total park areas but exceeds the standards for mini parks and neighborhood park areas. In order to meet the standard for all park types, the Village would have to add 85.5 acres of community park land. Due to the surplus of neighborhood park acreage, reclassification of neighborhood park to community park could be one way to meet the standard for community park area without acquiring new park land. Special use parks could also possibly be reclassified to community park with the addition of active-use facilities to meet the national standard. It should be noted that only Village owned, active use parks are used in the acreage calculation. Conservancy parks, special-use parks, County parks and school parks are not counted toward the NRPA standard.

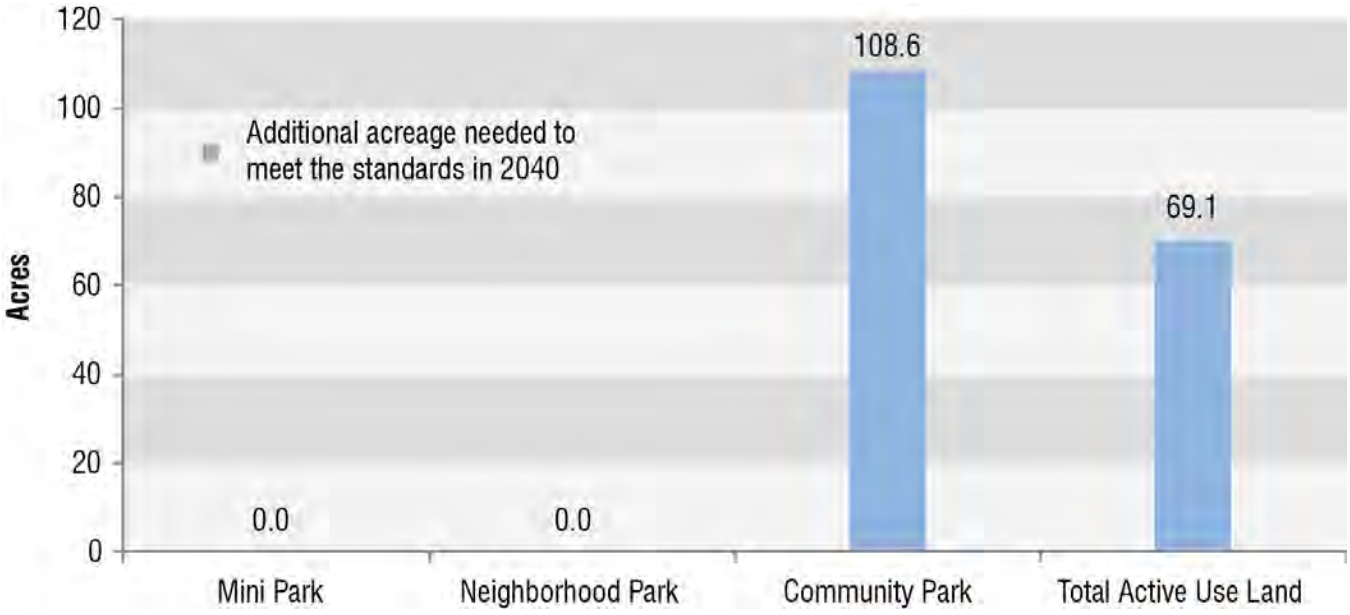
Chart 2.2 uses the 2040 population projection (Wisconsin Department of Administration) of 12,010 Village residents to predict future acreage standards and determine level of service compared to current park acreages. DeForest would require an additional 108.6 acres of community park land and 69.1 acres of total active-use park land to meet the Village standard in 2040 (see **Chart 2.3**). The Village would still exceed the standard area for mini parks and neighborhood parks.

The acreage standards should only be seen as one tool by which to measure the Village's overall park level of service. Several other factors contribute to the value of parks in addition to overall acreage. The number of amenities in parks, the type of amenities in parks and the age makeup of the community are just a few other factors that must be considered when estimating the service level of a park system.

Chart 2.1 – DeForest park acreage compared to the established Village standard

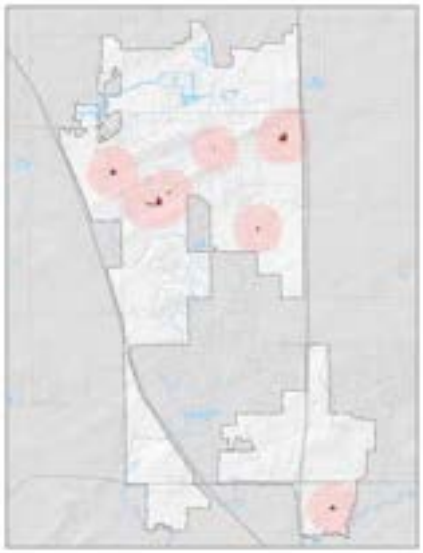
Chart 2.2 – DeForest park acreage compared to the standard calculated for the projected 2040 population

Chart 2.3 – Additional park acreage needed to serve the projected 2040 Village population

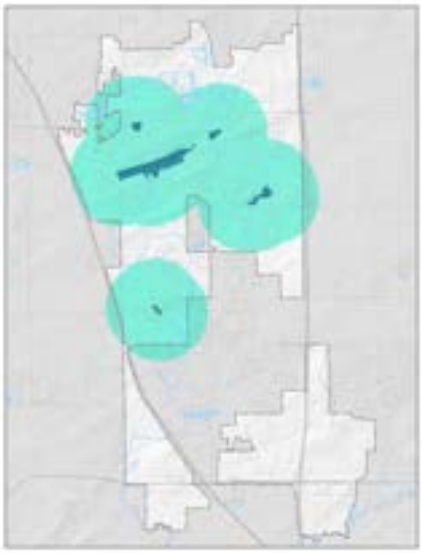


2.3 Park Service Area Requirements

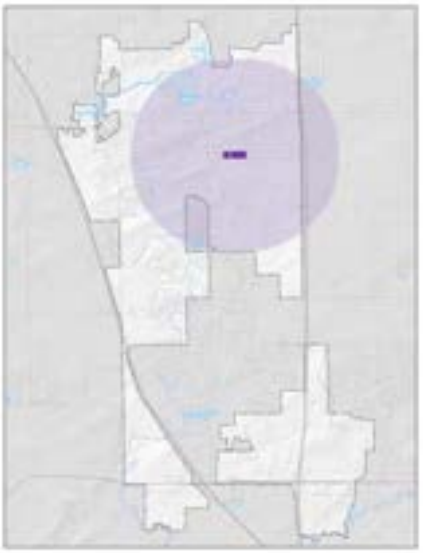
This method of evaluating a community's parkland needs and adequacy of service includes plotting park service areas on a base map to identify areas that are underserved. Utilizing the park service radii criteria established by the NRPA, park service areas were mapped for Village owned mini, neighborhood and community parks. The three maps below show park service radii isolated by park type (mini, neighborhood and community parks).



Mini Park Service Areas



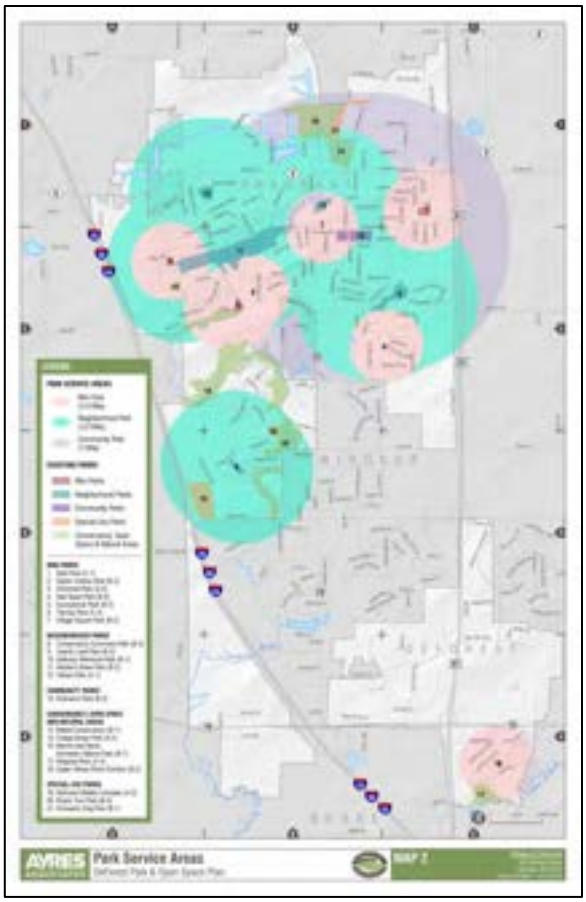
Neighborhood Park Service Areas



Community Park Service Areas

The park service area buffers were combined into a single map that can be found in **Appendix B, Map 2**. The majority of the community is adequately served under the community park classification, but the neighborhood areas south of Oak Springs Circle lack any coverage under this classification. The neighborhood classification has excellent coverage within the existing Village residential areas but will need to be addressed as residential patterns develop in the southern portion of the Village. The largest gap of coverage is in the mini park classification. It should be noted however that several school sites are located in these major gap areas and potentially offer similar types of recreational facilities. The three mini parks that do currently exist are somewhat isolated by the Yahara River. Mini parks are lacking in the outlying areas of the Village, particularly south of Vinburn Road. As the Conservancy Place neighborhoods continue to grow, additional mini parks will be needed. Residential areas in the southeast corner of the Village have the largest gap in public park system coverage.

As residential growth continues, specific areas of focus should include the neighborhoods surrounding the Highway 19/51 interchange, east of River Road south of the River and north of Highway V west of the River. As new housing development occurs in these areas, Village parkland dedication ordinance intends that these developments provide park land for future residents.



SEE FULL SIZE MAP 2 IN APPENDIX B

2.4 GIS Age Cohort Analysis

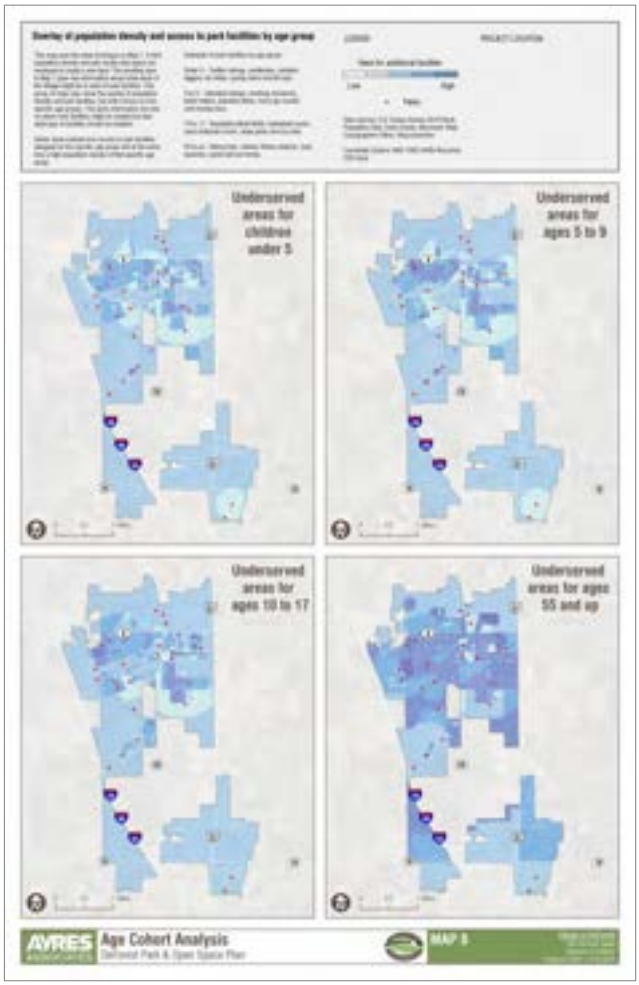
Age cohort analysis was developed to help prioritize improvements based on the distribution of residents by age and the availability of recreation facilities by geographic location. The methodology includes the layering of data on a map (See **Map 8** in **Appendix B**). The result is a graduated scale of relative need or "priority" based on the absence of a particular set of amenities we would expect an age group to utilize. The map is used to identify areas of spatial mismatch where parks containing certain amenities are not located in neighborhoods containing user groups best suited for those amenities. For example, if an area contains a high percentage of toddlers (age 2-5) but does not contain toddler-aged play equipment, the priority rating would be "high" because the area lacks the amenities to serve that population.

The analysis was used for four populations*:

1. Under 5 years of age: toddlers are best served by play equipment such as sandboxes, toddler swings, tot slides, spring riders, and tilt cups.
2. Ages 5 to 9: this group can be expected to use play equipment such as swings, climbing structures, teeter totters, merry-go-rounds and monkey bars.
3. Ages 10 to 17 years of age: this group can be served by a variety of park facilities. Amenities evaluated for this population include facilities related to baseball, softball, soccer, basketball, skateboarding and ice skating.
4. Age 55+: service to this this group included facilities such as hiking trails, outdoor fitness stations, boat launches, pickle ball and tennis.

* The four age groups shown represent groups with specific recreational needs separate from the overall population. They were chosen to determine if there is a lack in recreational amenities for those specific groups outside of the need for amenities for the overall population. Areas of overall population need can be found on **Map 7**. Maps use 2010 Census Block population data.

Parks that appear in "priority" areas (shown as the darkest areas on the graduated scale) are further discussed in Chapter 3 and mapped in **Appendix B**.

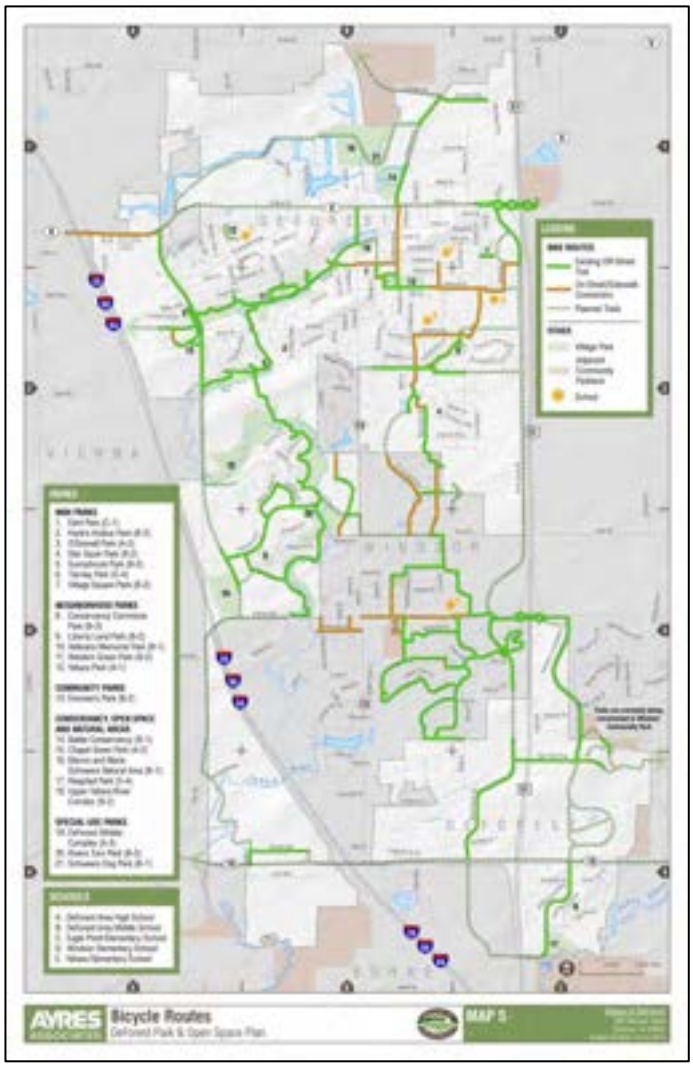


SEE FULL SIZE MAP 8 IN APPENDIX B

2.5 Bicycle and Pedestrian Connections

A park-by-park analysis revealed a lack of barrier-free access to some park facilities and playgrounds. This is an important consideration for residents who have mobility limitations and require additional accommodation. Barrier-free access to many of the facilities can be accommodated by simple solutions such as installing curb cuts to allow easy access for pedestrians from the street to the park. This missing piece of infrastructure also poses a barrier for cyclists. Additional bike racks should be considered in some parks.

Map 5 (Appendix B) shows the existing bicycle network in the Village of DeForest. The network consists of a series off-road trails and on-road routes intended to link destinations as well as to provide enjoyable recreational opportunities to Village residents. One such segment is the *Upper Yahara River Trail* which runs from Western Green Park to the north to Sunfish Pond to the south through the Upper Yahara River Conservancy Area. This scenic trail consists of 2.7 miles of a combination of porous asphalt trails and boardwalk. Other notable trail segments include the *Deforest-Windsor Trail*, the *Delkamp Trail* and the *Western Green Trail*. While this plan will seek to identify opportunities to improve the bike/ped network, the DeForest Safe Routes to School Plan should also be updated on a periodic basis to provide additional analysis and recommend potential improvements.



SEE FULL SIZE MAP 5 IN APPENDIX B

3 RECOMMENDATIONS

This chapter includes a variety of recommendations specifically developed to meet the existing and future needs of the community over the next five years. The recommendations incorporate local citizen input and have been developed as a result of extensive analysis and participation by VIllage officials, Village staff, citizens and local organizations as presented in the preceding chapters.

General recommendations are provided for direction on policy and design considerations while considering operational and maintenance procedures. This chapter also includes a detailed park inventory sheet for each Village park including general issues, possible improvement options and costs. This chapter is divided into the following sections:

3.1 General Recommendations: System-wide policies and procedures

3.2 Future Parks and Trails: Identification of general locations for new park land that would best serve the community

3.3 Individual Park Recommendations: an inventory sheet has been provided for each Village Park (includes inventory and park improvement options)

3.1 General Recommendations

3.1.1 Park Facility Recommendations

Several common issues were noted during the planning process resulting from observations made during site visits, meetings with community staff and community input. Those issues and recommendations for improvements related to those issues are listed below:

1. ADA Accessibility & Inclusivity

Site visits revealed that some parks did not provide ADA accessibility to park facilities such as playground equipment, picnic shelters and sports courts. It was also observed that many of the support components at Village parks (picnic tables, drinking fountains, etc.) were not ADA approved models.

Inclusivity of park facilities should also be considered in the design of new park improvements. Inclusive park design considers the needs of those not necessarily covered by the ADA Act of 1990. Inclusive park facilities may include amenities for children with sensory issues, amenities for service animals and play equipment designed for larger children.

Recommendations:

- Evaluate park facilities and circulation routes for ADA compliance as parks are improved.
- Retrofit all parks and park facilities to be disabled accessible (when possible). This includes assuring barrier-free access to all play areas, shelters, river access points, seating areas and restrooms.
- Where possible with existing infrastructure, assure that all parks are improved with ADA approved drinking fountains, picnic tables and other park components.

Examples of an ADA approved picnic table and drinking fountain.

2. Missing Support Components

Some parks did not have support components such as drinking fountains, trash receptacles and bicycle parking.

- o Recommendations:
  - All parks "Neighborhood Park" size or larger should have trash receptacles, drinking fountains and bike racks. These components should be installed on a hardscape surface such as concrete or asphalt. Install additional temporary trash and recycling receptacles for large events in Village parks.

3. Restrooms/Access to Restrooms

Restroom availability, access and maintenance were common issues throughout the planning process. Many in the community felt that the parks that did not have suitable restroom facilities or that the restrooms were not accessible at certain times. Liberty Land Park, Veterans Memorial Park and Sunfish Pond were specifically mentioned in the community survey by multiple respondents as needing restrooms.

- o Recommendations:
  - Construct new park restroom buildings in Liberty Land Park, Veterans Memorial Park and Sunfish Pond. Consider modular precast restroom buildings in lieu of traditional wood frame construction.

4. Parking Availability

Some respondents to the community survey felt there was not enough parking available in certain Village parks. Fireman's Park and Conservancy Commons Park in particular were identified as not having sufficient parking availability.

- Recommendations:
  - Continue with plans to construct an additional parking lot in the next phase of Fireman's Park improvements. Also consider adding angled parking stalls at Conservancy Commons Park along Yellowwood Lane.
  - Monitor parking conditions at other Village parks to determine if additional parking is needed at those facilities. Parks that host events or athletic leagues may be greater need that those that do not.

5. Aquatic Facilites

The results of the community survey showed that there is a strong desire for expanded aquatic facilities in DeForest.

- Recommendations:
  - Continue with plans to construct a splash pad in future phases of Fireman's Park improvements.
  - Conduct a study to determine the feasibility of constructing an outdoor aquatic facility in DeForest.

3.1.2 Promotion/Education

a. Improve and standardize on-site park signage for all Village parks (rules, interpretive, etc). Expand the community wayfinding system to identify key parks, trails, and bicycle routes along primary transportation corridors to and through the Village. Regularly update all bicycle and park system maps as new facilities are developed.

b. Continue to communicate with user groups over facilities updates and promote donations and formalized use agreements for maintenance.

3.1.3 Environmentally Sustainable Practices

a. Trash receptacles should be distributed throughout Village parks. The method of collection should also be used to determine receptacle locations. Placement of receptacles near sitting benches, for example is not preferred since it may discourage use of the bench or the trash receptacle. While recycling is encouraged in the Village, dedicated recycling containers are not provided due to improper use by park patrons.

b. Consider integrating rain gardens and bio-retention facilities, rain barrels, and other stormwater best management practices into existing facilities and proposed improvements.

c. Consider adopting a "grow not mow" policy in Village parks to limit how often (and what portions of) parks are mowed. Adding a day or more to the mowing cycle and preserving natural grasslands and other features in parks can reduce costs, reduce the amount of fossil fuels consumed in Village operations, increase natural buffers around shoreland and reduce soil erosion.

d. There are a variety of operational and maintenance activities that could be accomplished for less cost. Fuel is a big expense, prompting some communities to have strict idling policies that restrict how long a vehicle can remain running before it is turned off. Similarly, warming up vehicles should be limited – an example would be restricting warm up to no more than five minutes.

e. When replacing and/or installing new lighting in Village parks, use fixtures that utilize solar regeneration and LED illumination to reduce long-term maintenance costs and minimize non-renewable energy use.

f. Due to the invasion of the emerald ash borer (EAB) the Village has stopped planting ash trees. The Village has adopted an EAB management plan, completed a street tree inventory, and is implementing a replanting effort to replace the existing ash tree inventory. The management plan includes replacement, treatment of trees in key locations, and pre-emptive removals.

3.1.4 Finance

a. The Village should pursue grant funding to supplement capital funds for future development and park system upgrades. Some facilities mentioned in this plan are almost entirely dependent on grant acquisition, sponsorships and dedication as development costs are too great to fund through the general fund alone.

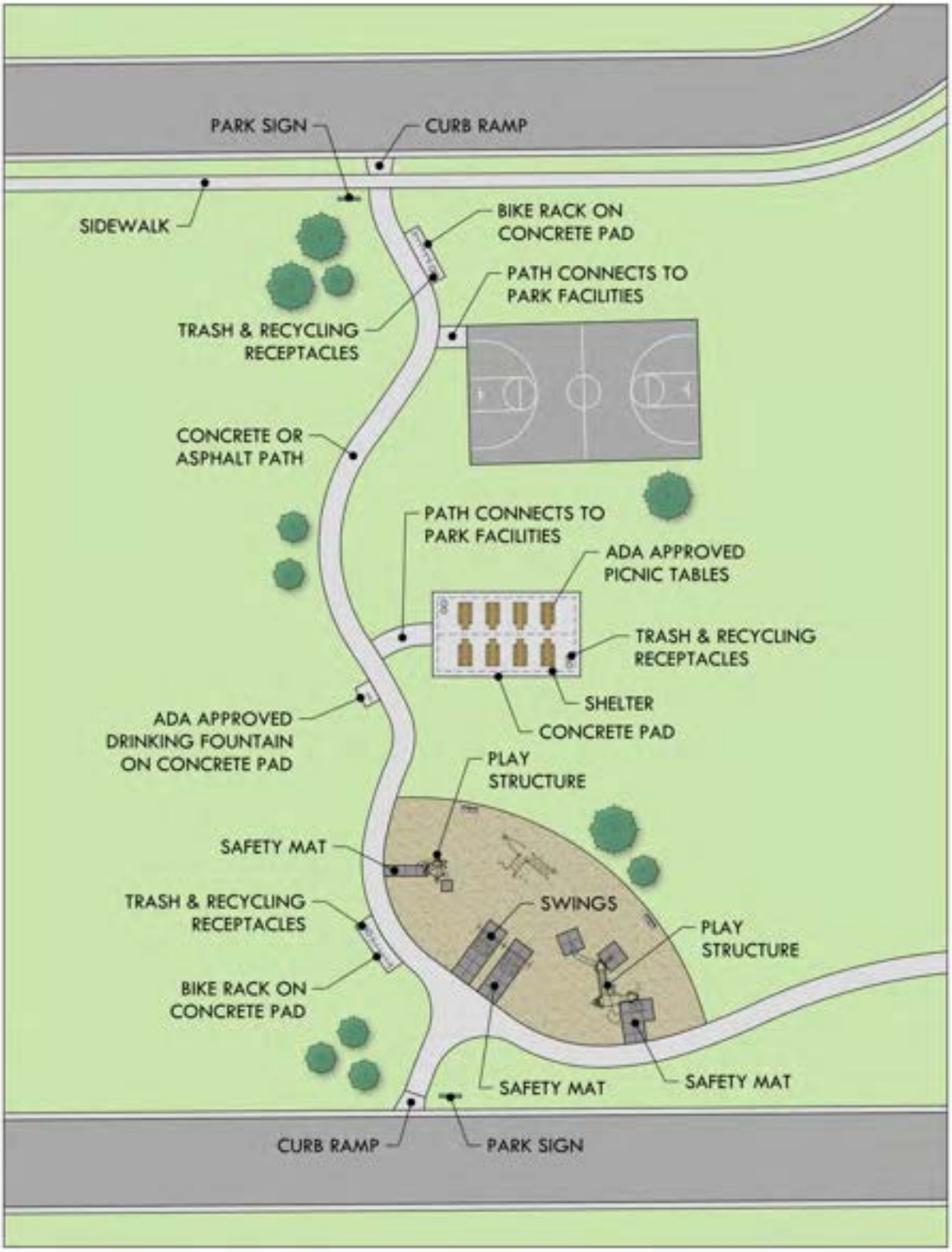
b. User fees should be reevaluated commensurate with increases in service.

c. Consider private sponsorships and non-traditional funding opportunities to fund facilities improvements or special events. These include cash and property donations or planned giving.

d. Continue to require parkland dedication at a rate of at least 1,921 sf per single family residential unit and 1,440 sf per multi-family unit as a condition of land development approval. The fee in lieu of dedication (currently set at $3,308 per single family dwelling and $2,486 per multi-family unit in the Subdivision and Development ordinance) and parkland development impact fee (currently set at $1,739 per single family dwelling unit and $1,308 per multi-family unit in the Subdivision and Development ordinance) will be reevaluated occasionally to ensure they accurately represent site acquisition and development costs.

3.1.5 Best Practices for Park Facility Development

The following graphic illustrates some of the "best practices" for the type of park improvements recommended in this plan. Typical ADA requirements call for barrier free access to all park facilities. Hardscape paths, playground safety mats and ADA approved support components are examples of good design for accessibility. Other examples of necessary elements for general park design include bicycle parking, trash/recycling receptacles and park signage.



3.2 Future Parks and Trails

The following section and **Map 10** in **Appendix B** identify potential future park and trail locations. The proposed locations of most of these future facilities are generalized, except in limited cases where the Village has already acquired lands. For other future facilities, the exact locations will be determined based on detailed analysis and often as part of the approval process for residential subdivisions where they will be located.

3.2.1 Future Community Park Alternative Locations

With the dramatic improvement of Fireman's Park in 2018 and the DeForest Athletic Complex in 2019, the Village has taken great strides to address its community-wide recreational needs. As described in the Section 3.3 that follows, additional improvements to Fireman's Park are anticipated.

Still, as suggested by the analysis in Chapter 2, the Village does not meet National Park and Recreation Association or local standards for community park acreage. In addition, portions of the Village's north side and northern future growth area lie beyond existing park service areas.

Therefore, the Village has identified four potential alternative, general locations for a future community park, indicated by C1, C2, C3, and C4 symbols on **Map 10**. Only one of these sites is warranted for a community park. These alternatives are described as follows:

- **C1:** Located north of North Street/Highway V, between Brule Parkway and the Highway V commercial district. In the late 2000s/early 2010s, this site was considered for a community park/athletic complex within the then-proposed Country View Estates development. That development proposal was dropped and the land has since changed hands. Site C1 potentially includes or abuts a collection of ponds and a large environmental corridor on its north edge. The site is highly visible and accessible.

- **C2:** Located north of North Street/Highway V, between Morrisonville Road and the Interstate. Site C2 is within an area planned by the Village for mixed residential and commercial development. A community park here could be located along a planned collector road that has been identified on the Village's Official Map. Site C2 is now rolling farmland.

- **C3:** Located south of North Street/Highway V and Evco Circle, between River Road and the Interstate. Site C3 is also within an area planned for mixed residential and commercial development. A new indoor commercial athletic complex and a campground are in the vicinity. The land is currently being farmed, flat to gently rolling, with some lowland/wetland. Compared to the other alternatives, site C3 is close to the new DeForest Athletic Complex, which may be a drawback.

- **C4:** Located near the northwest corner of the Heritage Gardens development, along the south side of Vinburn Road. This land is currently zoned for future multiple family residential development within the Heritage Gardens Planned Unit Development (PUD). The owner has expressed a willingness to consider other future uses. Site C4 is north and potentially adjacent to land identified in the PUD as a privately-operated botanical garden.

Acquisition of land for a future community park in one of these alternative locations may be years away or may be pursued sooner-than-later if a unique opportunity presents itself. Refer to Table 2.1 in Chapter 2 for potential size and recreational facilities for a future community park. Where a community park is not sited in one of sites C1, C2, C3, or C4, the Village may obtain less acreage for a neighborhood park or mini park.

3.2.2 Other Future Parks

The Village has and will obtain—typically through developer dedication—new neighborhood and mini parks in areas planned for residential development. The amount of land area dedicated is based on the Village's parkland dedication acreage-per-unit requirements in its subdivision regulations. **Map 10** includes the following "Future Village Parks" that have been platted and are in Village ownership but are not yet improved:

A. **Fox Hill Estates Park (name will likely change):** This is a partially dedicated but unimproved park (1.26 acres are currently in Village ownership). The Village may seek to add acreage based on the evolving surrounding development plans and to assure that an adequate practice athletic field and playground facilities can fit within the space. Park facilities will also be coordinated with what is available at the nearby Windsor Community Park.

B. **Rivers Turn 3rd Addition Park (name will likely change):** This is a dedicated but unimproved mini park in the Rivers Turn subdivision of Conservancy Place. It is 1.56 acres and abuts a 0.97-acre site that will be used mainly for stormwater management. Recent improvements in O'Donnell Park may serve as a model for the types of improvements here. A basketball court is also desired.

C. **Iver Munson Park:** This is a dedicated but unimproved 4.24-acre neighborhood park at the south end of the Heritage Gardens neighborhood. It is adjacent to and directly north of Cradle Hill Park in Windsor, which is 3.4 acres and includes a range of recreational improvements including a splash pad. Future improvements will be geared to the needs of the Heritage Gardens neighborhood and coordinated with facilities at Cradle Hill Park. The two Villages have collaborated on a conceptual plan for the development of these adjacent parks, copied here. It serves as a useful starting point for final design and construction.

Map 10 also suggests the following planned neighborhood and mini parks that have not yet been platted or are not otherwise in Village ownership. Their locations and even their future need is therefore less certain that those already-acquired parklands listed above.

- **N1:** This is a projected future neighborhood park near the Yahara River between the Interstate, River Road and Highway 19, north of the Village's Tax Incremental District #8. It will likely not be required for several years, or possibly ever if surrounding lands do not develop with residential uses. The adjacent future land use pattern is somewhat uncertain. If necessary, it should include riverfront and upland areas for a mix of passive and active recreational uses. It may therefore need to be on the larger side of recommended neighborhood park acreage.

- **N2:** This is a projected future neighborhood park in the undeveloped North River/Knolls section of Conservancy Place. By development agreement, it is projected at 4.6 acres. It could be located near the Yahara River, in a

woodland in this area and/or take the form of a linear park along the Upper Yahara River Corridor Trail. Alternatively, the trail could be rerouted in conjunction with the development of this residential area. The Village intends to plan for future recreational use of park N2 in conjunction with current and possible future facilities in the nearby Sunnybrook Park. Playground equipment should be installed in in at least one of these parks.

- **N3:** This future neighborhood park is west of River Road and the Woods Glen subdivision within an area that has been proposed for residential development over the years (e.g. Ten Oaks, Three Bridges). This park may have wooded sections and/or Yahara River frontage. As such, this future park has been suggested as a possible canoe/kayak launch location.

- **N4:** This projected neighborhood park is located north of Highway V between Morrisonville Road and the Interstate in an area planned for mixed use development. It may not be necessary if the community park C2 location is selected or if this area develops with predominantly non-residential uses.

- **N5:** This projected neighborhood park is located north of North Street/Highway V and west of Brule Parkway in an area planned for neighborhood development. It would not be necessary if the community park C1 location is selected.

- **N6:** This projected neighborhood park is located near the north edge of the Village, southwest of Yahara Road, within an area planned for neighborhood development. At present, it does not appear that this area will develop for many years.

- **M1:** This projected mini park is located west of the Park Crossing and Chapel Green subdivisions in an area planned for neighborhood development. It would ideally be accessible from a westerly extension of the trail currently running through Chapel Green. This mini park would likely be unnecessary if the community park C3 location is selected.

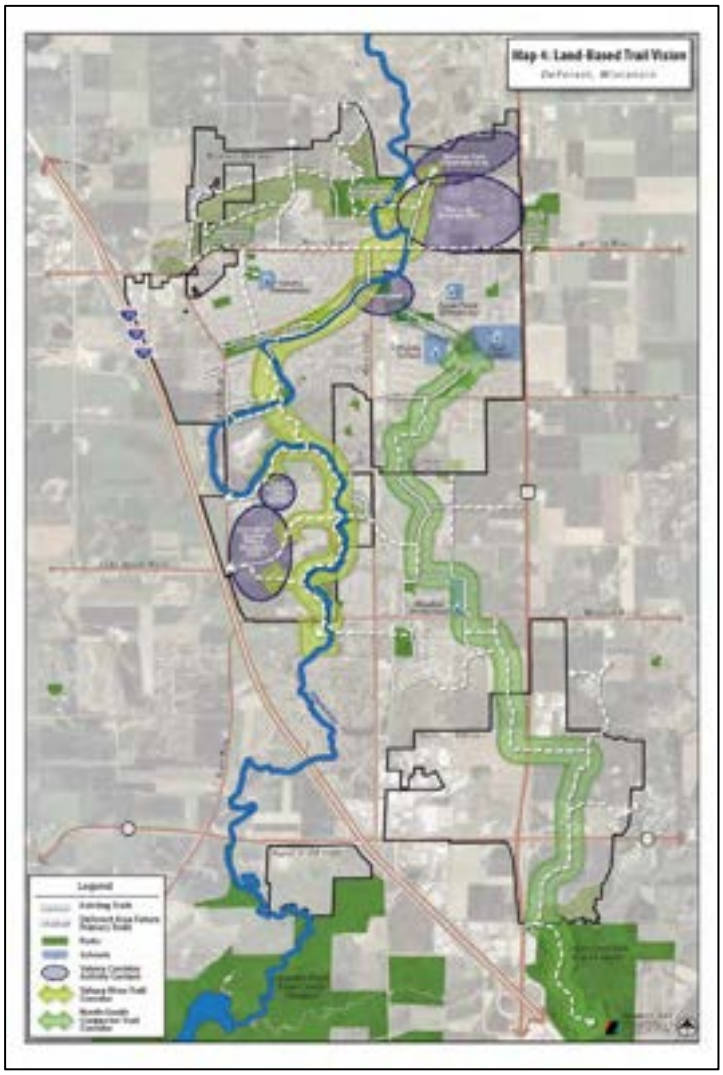
- **M2:** This projected mini park is located east of Morrisonville Road within a part of the Village planned for neighborhood development. At present, it does not appear that this area will develop for many years.

- **M3:** This projected mini park is located southeast of the Heritage Gardens neighborhood in an area that is planned for neighborhood development in DeForest.

- **M4:** This projected mini park is located in an area sometimes referred to as Pleasant Hill Estates East, directly east of the Pleasant Hill Estates subdivision in Windsor and planned for mixed use development. Siting may allow for a panoramic view including the Capitol building.

3.2.3 Future Trails

The Village has for the past several years developed an extensive off-street multiuse trail network, having been very successful in obtaining state, federal, and non-profit grants for such projects. Expansions to the Village's trail network have been based upon a long-range trail vision first presented in the 2011 Park and Open Space Plan and included on the map to the right. Parts of the eastern dark green route have been built as the DeForest-Windsor Trail and much of the western light green route has been built as the Upper Yahara River Trail and others. The Village still has some work to do in fully realizing this vision, working in collaboration with developers, Windsor, Dane County, and others.



Map 10 in **Appendix B** suggests several potential trail projects to carry out this vision.

Priorities include:

- Extending the River Road trail to the south and trail from the Upper Yahara River Corridor Trail to the west, both to connect with the DeForest Athletic Complex.
- Interconnecting the "DeForest South" area internally, and to the "DeForest North" area, Token Creek Park, the Cherokee Marsh, and other area municipalities.
- Fully connecting Village recreational areas along North Stevenson Street and the DeForest Business Park to the rest of the community.
- Securing one or more trail connections between the Upper Yahara River Trail and the DeForest-Windsor Trail. The Innovation Drive bridge—scheduled for completion by 2020–will include a trail section and contribute to fulfilling this priority.

3.2.4 Park Layout Concept /Park Master Plans

Prior to development of a proposed park, a concept or master plan should be prepared prior to construction to guide development. This same process should be repeated for any park if significant improvements are planned. The goal of the master plan is to determine what type of improvements are possible in the given space and to provide a layout for the development of those improvements.

Park Master Plan/Concept Plan Graphic Example (Fireman's Park)

The process for development of a park master plan includes research and data collection to identify drainage patterns, topography and other site features. After this initial reconnaissance, a public engagement process is often held to gather input on preferred park programming and amenities, particularly were there are neighbors in the area. Following this community engagement, concept development plans are created and cost estimates are prepared. These concept plans are further refined through public feedback and staff discussions into a final graphic and summary report.

3.3 Individual Park Recommendations

The following section discusses more detailed recommendations for each park. These recommended improvements are based on issues identified in site visits and comments from residents and local officials. Improvement options identified for each park are included in the 5-Year Capital Improvements Table in Chapter 4.

Each park's inventory sheets contains the location of the park, existing facilities, observed issues and recommendations for improvements. Not all improvements can be made in the next five years and many require substantial investment in the form of time, money or human capital to implement. Improvement recommendations should be viewed as options that could occur to mitigate, improve or promote aspects of the park site.

A sample inventory sheet (shown below) illustrates how information is presented on each park sheet. Park sheets are presented by parkland classifications devised by the National Recreation and Park Association as identified in Chapter 2.

MINI PARKS

Dahl Park

Dahl Park is a 4-acre park on North Halsor Street between Scott Drive and East Holum Street. Park facilities include a playground, an asphalt path and stormwater management ponds. Vegetation species include Cherry and Mountain Ash.

Existing Facilities:

- Open space
- Ponds
- Play structure (5 to 12 year old)
- Swings (1 belt, 1 bucket)
- Asphalt path
- Park sign
- Regulatory signage
- Trash receptacle

Issues:

- The playground is located far from the road
- Lack of seating options
- Cracking swing seat
- Mold/mildew on play structure

Programs, Events & Revenue Generators

- None

Maintenance Program

- Mowing weekly
- Stormwater pond maintenance
- Winter snow removal on sidewalk

Improvement Options & Estimate

- Install small shade structure at playground ……....$15,000
- Install benches and/or picnic tables for seating adjacent to playground ……..…… $1,000

TOTAL $16,000

Dahl Park

Site Photos:


Playground


Stormwater management pond


Mold/mildew on play structure


Cracked swing seats


Slide


Asphalt path

Hank's Hollow Park

This is a 0.4-acre park on Hank's Hollow Trail between Wild Plum Drive and Woodvale Drive. Vegetation species include linden, willow, and Norway maple.

Existing Facilities:

- Play structure (5 to 12-year old)
- Merry-go-round
- Monkey bars
- Picnic table
- Swings (2 belt, 2 bucket)
- Park sign
- Little Free Library
- Trash receptacle

Issues:

- Merry-go-round is aging/No longer meets safety standards
- No ADA access to playground
- No safety mats under play equipment
- No bike racks

Programs, Events & Revenue Generators

- None

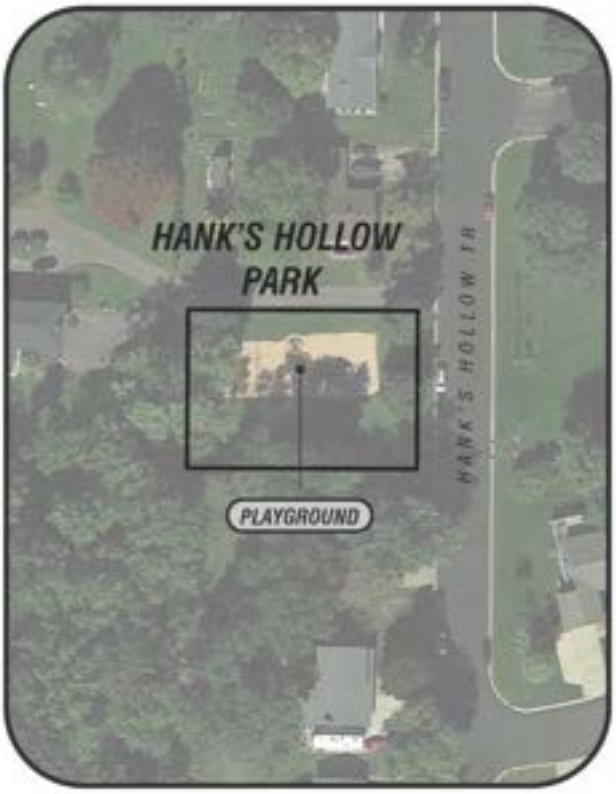
Maintenance Program

- Mowing weekly
- Trash collection weekly
- Fall protection
- Playground inspection

Improvement Options & Estimate

- Remove weed growth from playground mulch. Consider edging materials…….…….$10,000
- Install curb cut and pathway from street to playground area……..……..$6,000
- Install ADA transfer mat to play structure……..……..…$2,000
- Install bicycle rack on hard surface……..…$1,200
- Prune trees over swings for proper clearance …….... $500
- Inspect merry-go-round to ensure proper speed control device is installed……...……..……$0

TOTAL $19,700



Hank's Hollow Park

Site Photos:

O'Donnell Park

O'Donnell Park is a 1.8-acre mini park located on the west side of the Village near the intersection of Acker Parkway and River Road. Park facilities include a play structure, swings and picnic tables.

Existing Facilities:

- Play structure (2 to 12-year old)
- Swings (2 belt, 2 bucket)
- Interactive playground
- Bike rack
- Bench
- Picnic tables
- Trash receptacle

Issues:

- Fill needed around picnic table concrete pad
- No ADA approved picnic table
- Curb cut needed from street

Programs, Events & Revenue Generators

- None

Maintenance Program

- Mowing weekly
- Trash collection weekly

Improvement Options & Estimate

- Install ADA curb ramp on Griffin Way ……$2,000
- Replace (1) picnic table with an ADA approved model …..$1,500

TOTAL $3,500

O'Donnell Park

Site Photos:


Bike rack


Bench


Picnic tables


Play structure (2 - 12 year olds)


Slide

Interactive playground

Star Gazer Park

Star Gazer Park is a 1/2-acre mini park located at the intersection of Star Gazer Drive and Lavender Way. Park facilities include play structures, swings and a small park shelter.

Existing Facilities:

- Play structure (5 to 12 year old
- Play structure (2 to 5 year old)
- Small park shelter
- Swings (2 belt, 2 bucket)
- Open space
- Bike rack
- Picnic tables
- Benches
- Trash receptacle
- Concrete path

Issues:

- Picnic table not ADA approved
- Potential for additional facilities in north portion of park

Programs, Events & Revenue Generators

- None

Maintenance Program

- Mowing weekly
- Trash collection weekly

Improvement Options & Estimate

- Construct basketball court in north portion of park $25,000
- Replace picnic table with an ADA approved model $1,500

TOTAL $26,500

Stargazer Park

Site Photos:

Sunnybrook Park

This 4.3-acre park is located north of the Yahara River Conservancy on Riverside Drive at the junction of the Upper Yahara River Trail. Vegetation species include red maple, miscellaneous understory shrubs/trees, and perennial garden plantings.

Existing Facilities:

- Gazebo
- Asphalt path
- Boardwalk
- Open space
- Park signs (2)
- Regulatory signage
- Pond
- Pet waste station
- Trash receptacle
- Picnic tables (2)

Issues:

- Potential for additional recreational facilities
- Park is a hub of the Village trail network yet there are no facilities for trail users
- No ADA approved picnic tables

Programs, Events & Revenue Generators

- Shelter rental

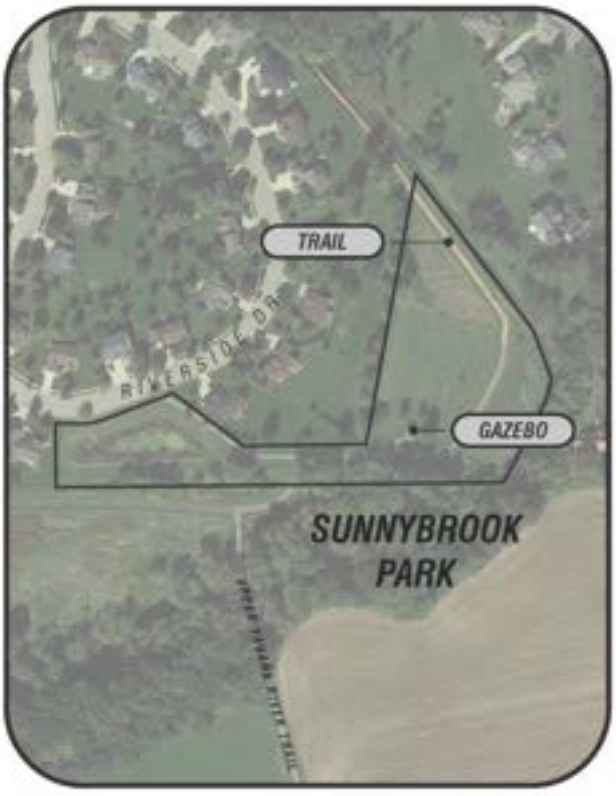
Maintenance Program

- Mowing weekly
- Trash collection weekly
- Shelter cleaning before rentals
- Stormwater pond maintenance
- Winter snow removal on trail

Improvement Options & Estimate

- Install play equipment (5 to 12 year-old) ……..……..$60,000
- Install trail wayfinding/kiosk map……..……$7,000

TOTAL $67,000



Sunnybrook Park

Site Photos:


Boardwalk

Park sign


Asphalt path


Pond


Gazebo

Trail wayfinding

Tierney Park

Tierney Park is a 1.3-acre mini park on Hanover Drive between Dagny Lane and John F Kennedy Drive. Due to its size it qualifies as a mini park, however due to the number of facilities in the park, it could easily qualify as a neighborhood park. Some park facilities include play equipment, a park shelter and a tennis court.

Existing Facilities:

- Shelter/restroom/ concessions building
- Climbing structure
- Swings (2 belt, 2 bucket, 1 seat)
- Tire swing
- Zip line
- Ring spinner
- Teeter spring rider
- Sandbox with Sand diggers
- Play structure (2 to 12 year old)
- Tot riders (3)
- Sky runner
- (2) ½ basketball courts
- Tennis/pickleball court
- (2) parking lots
- (2) park signs
- Picnic tables
- Benches
- Drinking fountain
- Water bottle filler
- Asphalt path/park drive
- Trash receptacles

Issues:

- Bollards needed at drive entrances to prevent non-Village vehicles from driving into park
- No ADA approved picnic tables
- Potential tennis and basketball use conflicts

Programs, Events & Revenue Generators

- Shelter rental

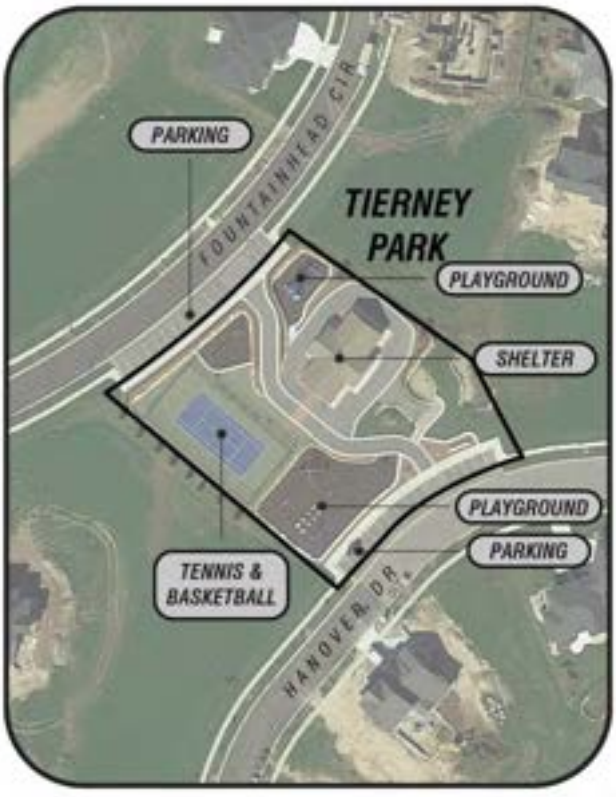
Maintenance Program

- Mowing weekly
- Trash collection weekly
- Shelter cleaning before rentals
- Winterization of shelters and restrooms

Improvement Options & Estimate

- Install (3) ADA approved picnic tables ……..$4,500
- Install removeable bollards at park drive entrances ……...$4,500

TOTAL $9,000



Tierney Park

Site Photos:


Swings

Park sign


Basketball


Tennis/pickleball/basketball


Benches


Climbing structure

Village Square Park

Village Square Park is a 0.2-acre mini park at the corner of Ethun Place and Library Street. Future development of this site is dependent on downtown economics and continued growth in the area.

Existing Facilities:

- Stone seating area

Issues:

- Under-utilized civic space
- Lack of shade
- No trash receptacles

Programs, Events & Revenue Generators

- Library concerts

Maintenance Program

- Installation of temporary electrical outlet for library concerts

Improvement Options & Estimate

- Install small shade structure……..….$15,000
- Install permanent electrical outlets ……..……$10,000
- Install moveable picnic tables and benches……...$2,000
- Plant trees……....$1,200
- Install park signage……..$500

TOTAL $28,700

Village Square Park

Site Photos:

NEIGHBORHOOD PARKS

Conservancy Commons Park

This is a 3-acre neighborhood park located in the Village of DeForest at the corner of Innovation Drive and Yellowood Lane. Park facilities include a large shelter, splashpad and play equipment. Vegetation species include shade trees such as red maple, freeman maple, swamp white oak, bur oak, common hackberry, shagbark hickory, black cherry and Kentucky coffeetree. Ornamental trees include species of musclewood, allegany serviceberry, pagoda dogwood, prairie fire crabapple, thornless cockspur hawthorn, serviceberry and black hills spruce.

Existing Facilities:

- Splash pad
- Shelter
- Play structure (2 to 5 year old)
- Climbing play structure
- Swings (2 belt, 1 bucket, 1 enclosed)
- Talk tubes
- Teeter totter
- Tot spinners
- Athletic field
- Concrete paths
- Open space
- Sledding hill
- Picnic tables
- Benches
- Restrooms
- Drinking fountain
- Amphitheater area
- Bicycle racks (3)
- Park sign
- Regulatory signage
- Trash receptacles

Issues:

- Steep and heaving concrete areas by three restroom building doors
- Trip hazard at playground to concrete transition – Gap between concrete and play surfacing
- No parking lot
- The drinking fountain is not an ADA approved model
- Small worn area in play surfacing
- No ADA approved picnic tables

Programs, Events & Revenue Generators

- Yahara Riverfest
- Sledding hill
- Youth soccer
- Flag Football
- Shelter rental

Conservancy Commons Park

Maintenance Program

- Mowing weekly
- Trash collection daily during busy season, weekly as season slows
- Daily bathroom cleaning
- Shelter cleaning before rentals
- Open and winterize bathrooms, water fountain and splash pad
- Winter snow removal on sidewalks

Improvement Options & Estimate

- Add angled parking stalls along Yellowwood Lane. Include trail connection from parking area to existing trail network……..$50,000
- Repair sunken concrete by door stoops…….$6,000
- Install ADA approved drinking fountain ……..$5,000
- Replace (3) picnic tables with ADA approved models ……...…….$4,500
- Fill gap between and sunken surfacing at playground/concrete transition ……..….$500
- Patch worn areas in playground safety surfacing ……...……..$500

TOTAL $66,500

Conservancy Commons Park

Site Photos:


Splash pad


Soccer field


Worn playground surfacing


Swings


Weeds in splash pad


Shower

Conservancy Commons Park

Site Photos:


Concrete path


Bike racks


Bench & trash receptacle


Picnic tables


Play equipment


Play equipment

Liberty Land Park

This is an 11.7-acre neighborhood park located in the Village of DeForest and bounded by Yorktown Road, Vinburn Lane, Southbound Drive and Constitution Lane. Vegetation species include paper birch, ash, crabapple, blue spruce, Norway spruce, red maple, silver maple, willow, arbor vitae, sycamore, and river birch.

Existing Facilities:

- 2 Play structures (5 to 12 year old)
- Play structure (2 to 5 year old)
- Swings (2 belt, 2 bucket & 1 ADA)
- Gazebo
- Picnic table
- Open space
- Multi-use trail
- Youth soccer field
- Utility building
- Orchard
- Community garden
- Community garden sign
- Garden shed
- Parking lot
- Interpretive signage
- Kiosk
- Pet waste bag dispenser
- Trash receptacles
- Park sign

Issues:

- Standing water at culvert
- Weeds persist in mulch at playground
- Playground location is not ideal or accessible
- The gazebo is not ADA accessible
- Large play structure is aging
- Swing set is aging
- Cracks in concrete at gazebo
- No ADA approved picnic tables
- No drinking fountain
- No benches at playground
- Damage to garden shed

Programs, Events & Revenue Generators

- High school agriculture class outdoor classroom (orchard)
- Community garden
- Shelter rental
- Community garden plot fee

Liberty Land Park

Maintenance Program

- Mowing weekly
- Fall protection
- Playground inspection
- Trash collection weekly
- Winter snow removal on trail and parking lot
- Shelter cleaning before rentals
- Community Garden
  - Spring plot preparation – tilling, staking
  - Open and winterize water
  - Compost bin emptied as needed

Improvement Options & Estimate

- Construct small restroom building ……..….$125,000
- Relocate playground closer to the path. Replace the 5 to 12-year old play structure and swing set. Relocate the 2 to 5-year old play structures. Install benches, safety surfacing and ADA transfer mats at the new playground location. ……$85,000
- Connect path to open air shelter and future playground ……..…...…...$15,000
- Install ADA approved drinking fountain ……....$10,000
- Install bike rack on hard surface……...….$1,500
- Replace picnic table at gazebo with an ADA approved model ……$1,500

TOTAL $238,000

Liberty Land Park

Site Photos:

Liberty Land Park

Site Photos:


Play equipment


Garden shed


Orchard


Gazebo concrete cracks


Community garden

Interpretive signage

Veterans Memorial Park

Veterans Memorial Park is a 5.4-acre neighborhood park adjacent to North Main Street and the Yahara River. Vegetation species include crabapple, honey locust, oak, black walnut, and various understory woodland plants. Decorative planters are also maintained with seasonal annual flowers.

Existing Facilities:

- Gazebo
- Monuments
- Interpretive signage
- Concrete paths
- Natural surface path
- Flagpoles
- Parking lot
- Picnic tables
- Drinking fountain
- Open space
- Park sign
- Lighting
- Benches
- Trash receptacles
- Kiosk
- Trailhead signage
- Canoe launch
- Donor pavers

Issues:

- Canoe launch is not sufficiently signed from road or parking area
- Drinking fountain has no flow, not ADA compliant
- No ADA approved picnic tables
- No bike racks
- Chain link fence is collapsed in some areas

Programs, Events & Revenue Generators

- Holiday tree exhibit
- Memorial Day celebration
- Gazebo rental
- DeForest Veterans Memorial Foundation

Maintenance Program

- Mowing weekly
- Trash collection weekly
- Gazebo cleaning before rentals
- Winter snow removal on parking lot, sidewalk and trails
- Local veteran's group and park neighbors maintain planting beds
- Prairie maintenance/burn

Veterans Memorial Park

Improvement Options & Estimate

- Construct small restroom building……$125,000
- Install trail wayfinding kiosk/map ……..$7,000
- Replace drinking fountain with ADA approved model ……$5,000
- Replace (2) picnic tables at the gazebo with ADA approved models ……$3,000
- Install a bike rack on a hardscape surface ……$2,500
- Remove chain link fence sections damaged by tree growth ……$0

TOTAL $142,500

Veterans Memorial Park

Site Photos:

Veterans Memorial Park

Photos:


Eagle monument


Interpretive signage


Bench


Air Force monument


Drinking fountain


Gazebo

Western Green Park

Western Green Park is a 61.4-acre neighborhood park located between Acker Parkway and the Yahara River. Vegetation species include oak, Norway maple, ash, spruce, linden, birch, and miscellaneous pond edge grasses and plants.

Existing Facilities:

- Asphalt trails
- Open space
- Restroom/storage building
- Drinking fountain
- Shelter
- Basketball court
- Sandlot backstop
- Picnic tables
- Sand volleyball
- Benches
- Play structure (5 to 12-year old)
- Play structure (2 to 5-year old)
- Swings (2 belt, 2 bucket)
- Parking lot
- Canoe/kayak launch
- Trailhead signage
- Pet waste bag dispenser
- Park sign
- Lighting
- Natural areas
- Pond
- Bridges
- Kiosk
- Bulletin/rules signage
- Interpretive signage
- Trash receptacles
- Athletic field

Issues:

- Exposed nails at park shelter
- Outlet covers missing in park shelter
- Standing water in some areas
- Dead/dying trees
- Chain link fence at pedestrian bridge may soon fail due to river bank erosion
- No bike rack

Programs, Events & Revenue Generators

- Candlelight hike
- Soccer
- Flag Football
- Winter Recreation Trails
- Shelter rental
- Youth baseball
- Blastball

Western Green Park

Maintenance Program

- Mowing weekly
- Fall Protection
- Playground Inspection
- Trash collection weekly
- Daily bathroom cleaning
- Shelter cleaning before rentals
- Open and winterize bathrooms and water fountain
- Stormwater pond maintenance
- Winter snow removal in parking lot and paved trails
- Line athletic field during season
- Prairie maintenance/burns
- Prep baseball and blastball fields during season

Improvement Options & Estimate

- Pave trail from Old Indian Trail to Main Street ……..$125,000
- Replace bridge at Old Indian Trail ……..……$65,000
- Install dumpster enclosure ……..……..…$10,000
- Install trail wayfinding kiosk/map ……$7,000
- Install ADA transfer mats at playground……...…...…$3,000
- Install a bike rack on a hardscape surface ……..……..$1,500
- Replace all electrical outlet covers at the shelter with lockable covers……..……..$1,000

TOTAL $212,500

Western Green Park

Site Photos:


Asphalt path


Shelter damage


Nails in shelter


Play structure


Bridge


Basketball court

Western Green Park

Site Photos:


Kiosk

Mayapple Trail

Pet waste station


Erosion at fence


Bench/interpretive sign


Backstop

Yahara Park

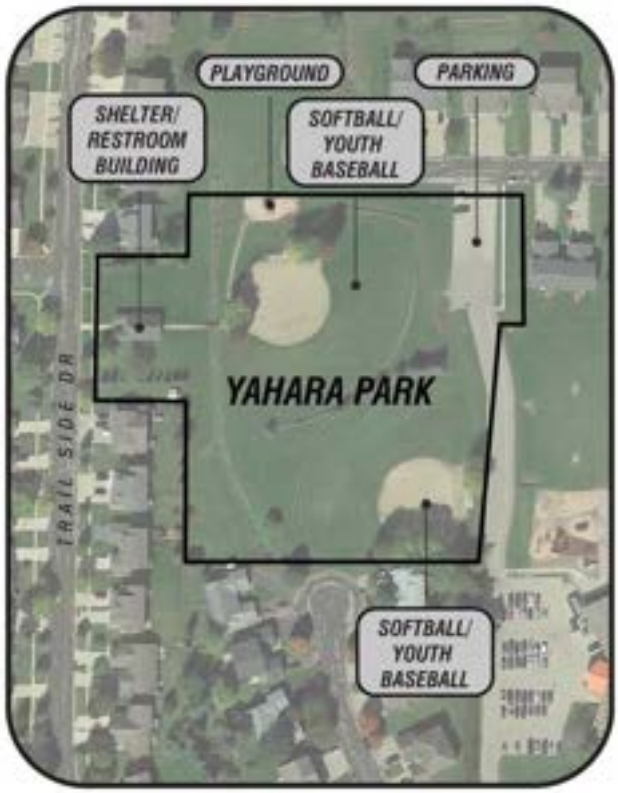
This is a 7.9-acre neighborhood park adjacent to Yahara Elementary School on Trailside Drive. Vegetation species include spruce, ash, maple, and decorative shrub/perennial beds.

Existing Facilities:

- Softball/youth baseball fields with bleachers (2)
- Scoreboard
- Shelter with restrooms & concessions
- Picnic tables
- Play structure (2 to 5-year old)
- Teeter totter
- Spring rider
- Spin seat
- Swings (2 bucket)
- Bench
- Park signs (2)
- Regulatory signage
- Gravel trail
- Pedestrian bridge
- Drinking fountain
- Parking lot
- Trash receptacles

Issues:

- Parking lot striping is faded
- Wood team benches at ballfields are starting to splinter on the ends
- Swing seats are splitting
- Pedestrian bridge appears to be sinking slightly
- Additional gravel needed on path between bridge and shelter. (Slope stabilization material is exposed)
- Shelter columns need to be re-stained
- No ADA approved picnic tables
- No bike racks



Programs, Events & Revenue Generators

- Youth softball and baseball games and tournaments
- Shelter rental
- Ball diamond field user fee
- Ball diamond advertising signage

Yahara Park

Maintenance Program

- Mowing weekly (diamond outfields twice a week during peak season)
- Fall protection
- Playground inspection
- Trash collection weekly
- Daily bathroom cleaning
- Shelter cleaning before rentals
- Open and winterize bathrooms and water fountain
- Ball diamond maintenance and field lining for games
- Winter snow removal in parking lot and sidewalk

Improvement Options & Estimate

- Resurface/restripe parking lot ……$10,000
- Replace ballfield team benches with aluminum benches ……$10,000
- Evaluate if bridge is sinking and make repairs if necessary ……$10,000
- Replace (4) picnic tables with ADA approved models ……$6,000
- Add gravel on path where stabilization material is exposed ……$2,000
- Re-stain shelter columns ……$2,000
- Install lockable electric outlet covers……$1,000

TOTAL $41,000

Yahara Park

Site Photos:


Playground


Softball field


Cracked swing seat


Picnic tables


Shelter paint fading


Gravel path

COMMUNITY PARKS

Fireman's Park

Fireman's Park is an 11.5-acre community park located between DeForest Street and Jefferson Street. Recent improvements to the park include a playground, a performance stage, basketball courts and the Fred and Hellen Chase Pavilion. Additional improvements are planned for future phases including additional park shelters, pickleball courts and play equipment.

Existing Facilities:

- Youth baseball/softball with bleachers/lights (2)
- Press box
- Scoreboards (2)
- Large shelter with restrooms, concessions & four-season community room
- Small shelter
- Stage
- Asphalt and concrete paths
- Parking lot
- Entry archway
- Play Structure (5 to 12 year olds)
- Play structure (2 to 5 year olds)
- Swings (4 belt, 2 bucket, 1 seat, 1 toddler/adult)
- Rockin' Robin
- Sky Runner
- Arch Swing
- Whirlwind Seat
- Musical play features
- Interactive playground
- Benches
- Ice skating rink
- Open space
- Basketball courts (2)
- Drinking fountains
- Bike rack
- Park lighting
- Park signs
- Centennial planter
- Picnic tables
- Trash & recycling receptacles

Issues:

- Missing end caps on bleachers. (Leaves an exposed sharp edge and/or screws)
- Baseboard on backstop at west ballfield has fallen leaving a gap at the bottom of the backstop.
- The pressbox is aging
- Bleachers should be on a hard surface
- Tire ruts and potholes on path near ballfields
- No ADA access to bleachers

Fireman's Park

Programs & Events

- Concerts in the Park
- Ice skating rink
- Bike Rodeo
- Police Department's Family Fun Night
- Recreation Programming
- July 4th celebration
- Dragon Arts Fair
- Car Show
- Brews N' Bites
- Fri-Yay! @ Fireman's
- Friday Flicks
- Softball
- Kickball
- Farmer's Market

Maintenance Program

- Mowing weekly (diamond outfields twice a week during peak season)
- Fall Protection
- Playground Inspection
- Trash collection weekly
- Daily bathroom cleaning
- Shelter cleaning before rentals
- Open and winterize bathrooms and water fountain
- Line football field during season
- Ball diamond maintenance and field lining for games
- Winter snow removal in parking lot, trail and sidewalk
- Winter skating rink preparation and maintenance

Revenue Generators

- Shelter rental
- Ball diamond field user fee
- Ball diamond advertising signs

Improvement Options & Estimate

- Construct splash pad adjacent to shelter and playground ……$450,000
- Construct tennis/pickleball courts ……$80,000
- Install hardscape at ballfields for bleacher pads, picnic area and ADA accessibility ……$25,000
- Replace non-ADA drinking fountains……$10,000
- Replace (4) picnic tables with ADA approved models ……$6,000
- Remove press box ……$5,000
- Replace end caps on bleachers ……$500
- Complete improvements illustrated in the Fireman's Park Conceptual Plan ……TBD

TOTAL $576,500+

Fireman's Park

Site Photos:


Playground


Basketball court


Swings


Stage


Shelter


Missing bleacher end caps

Fireman's Park

Site Photos:

SPECIAL USE PARKS

DeForest Athletic Complex

This 24-acre special-use park is currently under construction at the intersection of River Road and Windsor Road. The park will contain baseball/softball fields, concessions buildings, football fields and a parking lot.

Existing Facilities:

- Softball/youth baseball fields (4) with bleachers and lighting
- Football fields (2)
- Tennis/pickleball courts
- Concessions/restroom buildings (2)
- Playground
- Parking lot

Issues:

- None

Programs, Events & Revenue Generators

- Naming rights
- Other sponsorship opportunities

Maintenance Program

- Mowing
- Ball diamond maintenance and field lining for games
- Trash collection
- Winterization of buildings

Improvement Options & Estimate

- None

DeForest Athletic Complex

Site Photos:

Site rendering

Site under construction

Rivers Turn Park

This 3.2-acre park is located on Innovation Drive adjacent to the Upper Yahara River Corridor conservancy area. Amenities include a gazebo and exercise equipment.

Existing Facilities:

- Exercise stations (5)
- Open air shelter
- Asphalt path
- Picnic tables
- Open space
- Bicycle rack
- Drinking fountain
- Lights
- Park sign
- Trash receptacle

Issues:

- No ADA approved picnic tables
- Drinking fountain is not ADA compliant

Programs, Events & Revenue Generators

- Free public demonstrations on using fitness equipment
- Shelter rental

Maintenance Program

- Mowing weekly
- Trash collection weekly
- Equipment inspection
- Shelter cleaning before rentals
- Winter snow removal on sidewalk and trail
- Open and winterize water fountain

Improvement Options & Estimate

- Install an ADA approved drinking fountain ……..…..$5,000
- Install an ADA approved picnic table ……....$1,500

TOTAL $7,500

Rivers Turn Park

Site Photos:


Exercise equipment


Bike rack and drinking fountain


Picnic tables


Exercise equipment


Gazebo

Park sign

Schweers Dog Park

This 12.3-acre park is located off of North Stevenson Street adjacent to the Schweers Natural Area. The active area within the dog exercise area fence is approximately 5.5 acres with the remaining parcel utilized as parking, cell tower, and wetland.

Existing Facilities:

- Dog exercise area
- Timid dog area
- Donor paver entry area
- Pet waste bag dispenser
- Kiosk
- Fee station
- Benches
- Picnic tables
- Parking lot
- Asphalt path
- Water bottle station
- Park sign
- Regulatory signage
- Trash receptacles

Issues:

- Lack of shade
- Worn turf at entrance
- Kiosk is aging
- Wet around culverts

Programs, Events & Revenue Generators

- Non-resident user fee ($20/year)

Maintenance Program

- Mowing monthly
- Trash collection weekly

Improvement Options & Estimate

- Construct trail (limestone screenings) ……..…..$40,000
- Install shade structure…….$20,000
- Expand donor paver area into park slightly to mitigate turf erosion at park entrance gate ……...……...……..$5,000

TOTAL $65,000

Schweers Dog Park

Site Photos:


Entry area


Bench

Water bottle station


Boards covering worn turf at entrance

Rules sign

Donor pavers

CONSERVANCY, OPEN SPACE & NATURAL AREAS

Bakke Conservancy

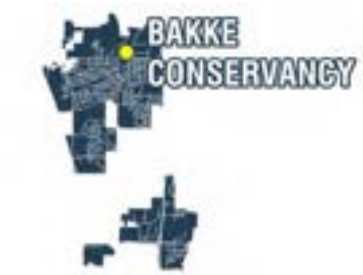
This is a 21.7-acre conservancy park located on North Stevenson Street south of Burton Boulevard.

Existing Facilities:

- Natural surface trail
- Asphalt path on Stevenson
- Trail signage
- Ice skating rink
- Bench
- Park sign

Issues:

- None



Programs, Events & Revenue Generators

- Ice skating rink

Maintenance Program

- Mowing biweekly
- Stormwater pond maintenance
- Ice rink maintenance
- Snow removal (Rink and trail)

Improvement Options & Estimate

- Potential fishing pier location ……..……$15,000

TOTAL $15,000

Bakke Conservancy

Site Photos:

Chapel Green Park

This 2.9-acre conservancy land is located near the intersection of South Street and River Road.

Existing Facilities:
- Trails
- Mature oaks

Issues:
- Dead/dying trees
- Invasive species
- Bike trail doesn't connect to street

Programs, Events & Revenue Generators
- None

Maintenance Program
- Mowing biweekly along path
- Remove invasive plant species

Improvement Options & Estimate
- Connect trail to trail network at River Road and install crosswalk/pedestrian lights as part of the River Road reconstruction ……TBD
- Remove dead trees ……..$5,000
- Seal cracks in asphalt path ……..$2,000

TOTAL $7,000

Chapel Green Park

Site Photos:


Asphalt path


Open space

Path dead ends


Dead/dying trees


Steep grade signage


Asphalt path

Marvin & Marie Schweers Natural Area

This 46-acre conservancy is adjacent to the north Village limits and Marvin and Marie Schweers Dog Park.

Existing Facilities:
- Mowed trails

Issues:
- Lack of access
- Lack of connectivity

Programs, Events & Revenue Generators
- None

Maintenance Program
- Natural area management contracted
- Monitor water levels and adjust control structure as needed

Improvement Options & Estimate
- Develop access points via Dennis Drive from the south and/or the dog park parking lot from the east. Development could include bridges, signage and trail improvements. ……....$80,000
- Develop a natural surface trail network and sign for cross country skiing ……...…..$50,000

TOTAL $130,000

Marvin & Marie Schweers Natural Area

Site Photos:


Yahara River


Potential access point


Natural area


Bird's eye view

Upper Yahara River Corridor

This 149-acre conservancy is located in designated areas throughout the Village of DeForest surrounding the Yahara River.

Existing Facilities:

- Multi-use trails (Asphalt/natural surface)
- Bridges/boardwalks
- Interpretive signage
- Natural areas
- Park signs
- Regulatory signage
- Picnic tables
- Dog waste station
- Trash receptacles
- Kiosk
- Fishing pier at Sunfish Pond
- Little Free Library
- Kiosk at Sunfish Pond
- Bike rack at Sunfish Pond
- Butterfly garden at Sunfish Pond
- Canoe/kayak launches

Issues:

- Vegetation management
- Water trail maintenance
- Wayfinding
- Lack of day use shelter

Programs, Events & Revenue Generators

- Yahara Riverfest
- Fishing clinics at Sunfish Pond
- Winter ice skating rink at Sunfish Pond
- Nature Interpretation
- Birdwatching
- Geocaching

Maintenance Program

- Mowing biweekly
- Trash collection weekly
- Winter snow removal in parking lot and trail
- Winter ice skating rink snow removal on Sunfish Pond
- Stain boardwalks and bridges

Improvement Options & Estimate

- Construct restroom building at Sunfish Pond……....$125,000
- Construct park shelter at Sunfish Pond……....$80,000
- Construct playground at Sunfish Pond……....$60,000
- Install second fishing pier ……...…$15,000
- Install trail wayfinding signage……...$7,000
- Acquire additional land on north and west side of pond (buffer and day use activities) …...……...……..…… TBD

TOTAL $287,000

Upper Yahara River Corridor

Site Photos:

Reigstad Park

This 14-acre conservancy land is located near the intersection of Hanover Drive and Williamsburg Way.

Existing Facilities:
- None

Issues:
- None

Programs, Events & Revenue Generators
- None

Maintenance Program
- None

Improvement Options & Estimate
- Construct gravel or natural surface trail network ……....$25,000

TOTAL $25,000

Reigstad Park

Site Photos:


Natural area


Asphalt path

Adjacent to Token Creek Park


Adjacent to asphalt path


Natural area


Natural area

4 IMPLEMENTATION

The previous chapter of this report detailed a number of specific improvement options. This chapter provides the mechanism for implementing them. It includes a compilation of capital improvements, park development mechanisms and funding sources. The chapter also includes the process for adopting, monitoring and updating this plan.

4.1 Plan Approval and Amendments

Introduction
A prerequisite to participation in outdoor recreation grant programs is the adoption and subsequent Department of Natural Resources acceptance of a local comprehensive outdoor recreation plan.

Comprehensive planning is an overall survey of the existing facilities within a given jurisdiction that gives recommendations for future improvements. A comprehensive outdoor recreation plan (DeForest uses the term "Park and Open Space Plan" - POSP) is only the first step in the development of a recreational park site or system.

Master planning, which follows the recommendations of the comprehensive plan, is an overall view and analysis of an existing or proposed park area. The purpose is to guide the orderly development of a park or recreational facility.

Site planning, is the detailed plan of how an area within a park or recreation area will be developed. Site plans supply the construction details needed to develop a facility recommended in the master plan.

This plan provides strategies and recommendations for improving and expanding the Village of DeForest park system. It is anticipated that master planning for proposed parks and park improvement projects is a high priority and should be featured prominently when budgets are determined over the life of this plan.

Formal Plan Approval
This POSP should be approved by the local governing body after thorough review by the Planning and Zoning Commission and Village Board. Once adopted, the plan will become a component of the Village's comprehensive plan. The Village should follow all rules and procedures established in the citizen participation plan adopted as part of the comprehensive planning process (per State Statute 66.1001) when adopting this POSP.

Amending the Plan
Plan amendments are common and should be considered part of the planning process. They frequently represent good implementation or plan usage and should be acceptable for consideration by local decision-makers. Amendments must follow the same process as the original plan and will generally prolong the effectiveness of the parent plan.

The Village of DeForest Park and Open Space Plan will make the Village eligible for funding by the Wisconsin Department of Natural Resources through the year 2024. Since this plan was developed with a five-year timeframe, it should be amended in 2024 to ensure grant eligibility and to reflect progress made over time.

4.2 Park Acquisition and Development Mechanisms

4.2.1 Parkland Dedication

Many communities have developer exactions for parkland acquisition. These exactions are designed to help a growing community acquire new park land to keep pace with new residential development. As residents move into a new subdivision, they place additional stress on existing park facilities. Developer exactions, agreed upon during the subdivision review and approval period, provide land, cash or a combination of both to be used for the provision of park facilities that serve the new neighborhood.

The Village of DeForest Subdivision and Development code (Chapter 13, subchapters IV and V) covers dedication of lands and public site fee options. Subdividers of land where suitable sites have been designated on the Comprehensive Plan are required to dedicate these sites to the public. An explanation of these requirements is found in Chapter 3 of this document. If the Village allows the land division to not include a public park, a fee in lieu of dedication must be paid for the acquisition or development of park land. The Village should review these policies on a regular basis to ensure compliance with state and local laws as well as accommodate the changing needs of residential developments.

Usable Lands

Because the intent of parkland dedication requirements is to provide sufficient recreation lands for new residents, mini or neighborhood parks should be developed within new developments. Neighborhood parks are designed to provide active and passive recreation activities and organized league recreation, as well as informal "pick up" play. The ½ mile radius service area should include the entire neighborhood; with some neighborhood overlap if features are unique. The average neighborhood park commonly ranges from 3 to 10 acres in size and serves from 1,000 to 5,000 people – basically one park for every elementary school.

Defining the term "usable lands" is very important to ensuring the quality of the proposed dedication. To obtain credit towards meeting parkland dedication requirements, the following language in the Village Ordinance is used in evaluating land proposed for dedication:

> "*Usable land*" *means land intended for public park dedication where required under this chapter that:*
>
> - *Is located outside of the floodplain, wetlands, surface waters, storm water basins and conveyance routes, and other areas with severe limitations for park development in the determination of the Parks, Recreation, and Natural Resources Committee;*
> - *Contains developer-finished slopes of less than 4% for active recreation areas, and slopes of less than 12% for passive recreation areas and conservancy;*
> - *Is sufficiently shaped and contains suitable soils for construction of the anticipated park facilities, in the determination of the Director of Public Services;*
> - *Has at least 15% of its perimeter adjacent to a public street;*
> - *Is visible and accessible to the public for foot, bike, and motor vehicle access and for effective monitoring for public safety;*
> - *Does not present any environmental hazard, risk or liability to the community, such as through soil contamination or nuisance or invasive vegetation; and*
> - *Is situated in a location that is consistent with the Village's master plan including its Park and Open Space Plan component, that contributes to the Village's community development goals, and that adequately serves the park's service area.*

4.2.2 User Groups
The Village should coordinate with potential user groups when planning new facilities to see if cost-sharing, donation or outright purchase options exist. Groups that could potentially be involved include youth sports groups, private organizations and the school district.

4.2.3 Planned Giving
In many communities, parkland development occurs with the availability of land. Donations of private land for a public purpose is not uncommon, and criteria for accepting these lands is needed. A formal procedure should be in place for how the land will be planned and used in the best interest of the community. An established planned giving program through the Village would allow prospective patrons to dedicate land in a legal manner that provides a legacy for how the land will be utilized over time.

4.2.4 Grant Funding
Implementation dollars are available for acquisition and development of recreation spaces and facilities. Linear parks and trails can be funded through the WDNR or the Department of Transportation (WDOT). The WDNR also provides monies for the acquisition of lands, the stabilization of shorelands and the protection of environmentally sensitive areas. A complete list of grant opportunities is provided in Section 4.3.

4.3 Grant Information for Park Acquisition and Development
The state and federal government provides grants to local governments for the acquisition and development of parks. Many of these programs require that a local government submit an approved park and open space plan or master plan to the Wisconsin DNR as a condition for eligibility. By adopting this Park and Open Space Plan, by ordinance, the Village of DeForest will have met the eligibility requirement for these grant programs until 2024.

4.3.1 Projects that Require Grant Funding
The high cost of park improvement projects necessitates the acquisition of outside funding to enable development. Grant funding provides seed money and crucial capital for leveraging additional community dollars and support. While many projects identified in this plan would benefit from the acquisition of outside funding sources, some projects will require grant funding if they are to be realized. Grant programs are discussed in the following section (4.3.2).

4.3.2 Grant Programs
This section provides general information and details for many of the grant programs that may be used to acquire and develop local park facilities, linear trails or beaches. Categories, by authorization agency, include:
- Wisconsin Department of Natural Resources
- Wisconsin Department of Transportation
- Wisconsin Department of Administration
- Other Programs (Various Agencies)

Wisconsin Department of Natural Resources (DNR)
Knowles-Nelson Stewardship Program: Named for two of Wisconsin's most revered conservation leaders, Governor Warren Knowles and Senator Gaylord Nelson, the Wisconsin Legislature created this innovative program in 1989 to preserve valuable natural areas and wildlife habitat, protect water quality and fisheries, and expand opportunities for outdoor recreation.

All grant program awards cover up to 50% of eligible project costs. Projects eligible for Stewardship grant programs require that all land acquisition and development projects provide public access for “nature-based outdoor recreation” purposes. DNR decisions as to whether a particular project activity is “nature-based outdoor recreation” are made on a case-by-case basis. Please note that purchase and installation of playground equipment and the purchase of land for recreation areas not related to nature-based outdoor recreation (dedicated sports fields, swimming pools, etc.) are not eligible.

For more information and to submit applications contact the South Central Region representative (listed below). All applications are due May 1.

Cheryl Housley
Telephone: (608) 275-3218
Email: Cheryl.Housley@Wisconsin.Gov

The Stewardship Program includes the four funds described below (A – D).

A. Acquisition and Development of Local Parks (ADLP)

Description: Stewardship sets aside 50% of funds for projects that improve community parks and acquire land for public outdoor recreation. Applicants compete against other applicants from their region. Funds may be used for both land acquisition projects and development projects for nature-based outdoor recreation such as fishing piers, hiking trails and picnic facilities. Funds are not available for non-nature based activities such as baseball and soccer fields. Costs associated with operation and maintenance of parks and other outdoor recreation facilities are not eligible for Stewardship funds.

Eligible Project Examples:

1. Land acquisition projects that will provide opportunities for nature-based outdoor recreation.
2. Property with frontage on rivers, streams, lakes, estuaries and reservoirs that will provide water-based outdoor recreation.
3. Property that provides special recreation opportunities such as floodplains, wetlands and areas adjacent to scenic highways.
4. Natural areas and outstanding scenic areas where the objective is to preserve the scenic or natural values, including areas of physical or biological importance and wildlife areas. These areas shall be open to the general public for outdoor recreation use to the extent that the natural attributes of the areas will not be seriously impaired or lost.
5. Land within urban areas for day-use picnic areas.
6. Land for nature-based outdoor recreation trails.

Ineligible Project Examples:

1. Projects that are not supported by a local comprehensive outdoor recreational plan.
2. Land to be used for non-nature based outdoor recreation such as athletic facilities.
3. Acquisition and development of golf courses.

B. Urban Rivers (UR)

Description: Stewardship allocates 20% of funds annually to restore or preserve the character of urban riverways through the acquisition of land or easements adjacent to rivers. Funding will be provided for projects that are part of a plan to enhance the quality of a river corridor. Applicants compete against other applicants statewide. The purposes of the program are:

1. To provide for economic revitalization through the restoration or preservation of urban rivers or riverfronts;
2. To improve outdoor recreational opportunities by increasing access to urban rivers for a variety of public uses, including but not limited to fishing, wildlife observation, enjoyment of scenic beauty, canoeing, boating, hiking and bicycling;
3. To preserve or restore significant historical, cultural or natural areas along urban rivers.

Funding Priorities: Priority is given to projects that have one or more of the following characteristics:

1. Acquires land or land rights that preserve or restore natural values, including aesthetic values, and enhance environmental quality along urban waterways.
2. Provides new or expanded diverse recreational opportunities to all segments of urban populations.
3. Provides new or expanded access to urban waterways.
4. Acquires blighted lands that will be restored to complement riverfront redevelopment activities.

5. Encourages comprehensive riverway planning within and between municipalities and other agencies.
6. Provides opportunities for increasing tourism.
7. Acquires lands that through proper management will improve or protect water quality.

C. Urban Green Space (UGS)

Description: The intent of the Urban Green Space Program (UGS) is to provide open natural space within or in proximity to urban areas; to protect from urban development areas that have scenic, ecological or other natural value and are within or in proximity to urban areas; and to provide land for noncommercial gardening for the residents of an urbanized area.

Funding Priorities: Priority is given to projects that have one or more of the following characteristics:

a. Planning considerations, including:
   - Specifically implementing a priority of the Statewide Comprehensive Outdoor Recreation Plan
   - Implementing the approved master plans of 2 or more units of government or regional planning agencies
   - Preserving land that is listed on the natural heritage inventory database
   - Implementing elements of water quality plans or initiatives

b. Project considerations, including:
   - Serving the greatest population centers
   - Serving areas of rapidly increasing populations
   - Providing accessibility
   - Having unique natural features, threatened/endangered species or significant ecological value
   - Providing open natural linear corridors connecting open natural areas
   - Having water frontage
   - Containing or restoring wetlands
   - Protecting sensitive wildlife habitat
   - Protecting an area threatened by development
   - Preserving a natural community or one that could be restored
   - Having regional or statewide significance
   - Relating to brownfield redevelopment

c. Administrative considerations, including:
   - Projects that are ready to be implemented and/or to continue previously started projects

D. Acquisition of Development Rights

Description: The purpose of the Acquisition of Development Rights Program is to protect natural, agricultural or forest lands that enhance nature-based outdoor recreation. "Development Rights" are the rights of a landowner to develop their property to the greatest extent allowed under state and local laws. The goals of the program are achieved through the purchase of those development rights and compensating landowners for limited future development on their land.

Funding Priorities: Priority is given to projects that have one or more of the following characteristics:

- Property with frontage on rivers, streams, lakes or estuaries
- Property that creates a buffer between land that has been permanently protected for natural resource and conservation purposes and potential or existing residential, commercial or industrial development
- Property that is within the boundaries of an acquisition project established by the DNR, a government unit or a non-profit conservation organization where the uses of the property will complement the goals of the project and the stewardship program
- Property that is within an environmental corridor that connects two or more established resource protection areas

Federal Programs Related to the Stewardship Program: The Land and Water Conservation Fund (LWCF) and Recreational Trails Act (RTA) programs fund projects that are similar to the Stewardship programs. One primary difference is that LWCF and RTA programs are not restricted to nature-based outdoor recreation projects. In these programs, nature-based outdoor recreation projects compete against projects with non-nature based recreation elements for LWCF funds. Another difference is that federal programs have additional requirements that must be satisfied – for example, compliance with the

National Environmental Policy Act, the Historic Preservation Act, etc. Federal programs administered through the DNR include the two funds described below (E, F).

E. Land and Water Conservation Fund (LWCF)
Description: This program was established to encourage nationwide creation and interpretation of high quality outdoor recreational opportunities. The program funds both state and local outdoor recreation activities.

Funding Priorities: Priority is given to projects that have one or more of the following characteristics:
- Relationship to the Statewide Comprehensive Outdoor Recreation Plan; activities must be in locally approved plans
- Regional or statewide in nature
- Acquires land where a plan supports need
- Provides or enhances water-based activity
- Serves the greatest populations
- Involves other local government cooperation, volunteers, local donations
- First time applicants
- Sponsor has completed past projects
- Provides multi-season, multi activity use
- Basic, over elaborate, facilities
- Participant over spectator facilities
- "Nature based" restriction does not apply

Eligible Project Examples:
- Land acquisition
- Development of outdoor recreation facilities, including active sports facilities

F. Recreational Trails Act (RTA)
Description: These funds are used to develop and maintain recreational trails and trail-related facilities for both motorized and non-motorized recreational trail uses. RTA funds may only be used on trails which have been identified in or which further a specific goal of a local, county or state trail plan included or referenced in a statewide comprehensive outdoor recreation plan. 30% of funds must be used on motorized trail uses, 30% on non-motorized trail uses and 40% on diversified (multiple) trail uses.

Funding Priorities: Priority is given to projects that have one or more of the following characteristics:
- Maintenance and restoration of existing trails.
- Development and rehabilitation of trailside and trailhead facilities and trail linkages.
- Construction of new trails (with certain restrictions on Federal lands).
- Acquisition of easement or property for trails.

Wisconsin Department of Transportation (WisDOT)
The Wisconsin Department of Transportation offers a variety of programs that can provide financial assistance to local governments, along with other public and private entities, to make improvements to highways, airports, harbors, bike, rail and pedestrian facilities. The use of these funds in DeForest would be most closely tied to developing trails to link parks to places of employment, residence and commerce.

G. Surface Transportation Program – Urban (STP-U)
Description: This program allocates federal funds to complete a variety of improvements to federal-aid-eligible roads and streets in urban areas. Projects must meet federal and state requirements. Communities are eligible for funding on roads functionally classified as major collector or higher. The WisDOT requires that pedestrian and on-street bicycle accommodations be part of all STP projects within or in the vicinity of population centers, unless extraordinary circumstances can be demonstrated to WisDOT for not providing these accommodations.
Contact: Michael Erickson, Southwest Region at (608)246-5361 or michael.erickson@dot.wi.gov

H. Transportation Alternatives Program (TAP)

Description: The Transportation Alternatives Program (TAP) allocates federal funds to transportation improvement projects that "expand travel choice, strengthen the local economy, improve the quality of life, and protect the environment." TAP is a legislative program that was authorized in 2012 by the federal transportation legislation, Moving Ahead for Progress in the 21st Century Act (MAP-21). The transportation alternatives program provides for the implementation of a variety of non-traditional projects, with examples ranging from the restoration of historic transportation facilities, to bike and pedestrian facilities, to landscaping and scenic beautification, and to the mitigation of water pollution from highway runoff. Examples of bicycle and pedestrian projects that TAP will likely fund include: multi-use trails, paved shoulders, bike lanes, bicycle route signage, bicycle parking, overpasses/underpasses, bridges, sidewalks and pedestrian crossings. Local municipalities contribute 20% of the project costs. Federal regulations restrict the use of funds on trails that allow motorized users, except snowmobiles.

Contact: Merrill Mechler-Hickson, State Coordinator at (608) 261-8977 or merrill.mechlerhickson@dot.wi.gov or Tom Koprowski, Southwest Region at (608) 246-3869 or thomas.koprowski@dot.wi.gov

Deadline: the next application cycle expected to open in the fall of 2019

Wisconsin Department of Administration

I. Community Development Block Grant – Public Facilities (CDBG-PF)

Description: Available through the Wisconsin Department of Administration (DOA), communities receiving CDBG funds from the State may use the funds for many kinds of community development activities including, but not limited to:

- Acquisition of property for public purposes
- Construction or reconstruction of streets, water and sewer facilities, neighborhood centers, recreation facilities and other public works
- Demolition
- Rehabilitation of public and private buildings
- Public services
- Planning activities
- Assistance to nonprofit entities for community development activities
- Assistance to private, for profit entities to carry out economic development activities (including assistance to micro-enterprises)

Contact: Tom Clippert (BCD Director) at (608) 261-7538

Other Programs

J. Madison Community Foundation

Description: The Madison Community Foundation provides funding assistance to communities and other organizations in Dane County to improve public spaces and connect people for the common good.

Contact: Tom Linfield at (608)232-1763 or tlinfield@madisongives.org

K. 10-Minute Walk Planning Grants

Description: The 10-Minute Walk campaign is a National Recreation and Park Association program that offers grants to support park related planning efforts in communities. The goal of this program is to increase access to parks in chosen communities that are within a 10-minute walk. The first round of $40,000 grants were awarded on April 1, 2018 with additional application periods expected in the future.

To qualify for the 10-Minute Walk grants the applicant must:

- Be a local government park and recreation agency
- Provide a signed statement of support for the 10-Minute Walk Campaign from the Mayor of the applicant City

- Provide a signed statement of support from at least two partners on the project (outside of parks and recreation)
- Demonstrate a clear interest and commitment to the campaign, strong project management, and leadership support

Contact: 10minutewalk@nrpa.org

L. KaBOOM! Grants

Description: KaBOOM! is a national non-profit partnered with businesses such as Home Depot that awards grants for playground development. KaBOOM! accepts applications for grants on a rolling basis from child serving non-profit organizations, schools and municipalities.

Applicants with the best chance of receiving grants will:

- Serve children from a low-income area, serve children with special needs or serve children in a disaster impacted area
- Demonstrate the need for a playground
- Have a space that does not currently have a playground on have a playground that needs to be replaced
- Will implement a community-build model to engage the larger community in all aspects of project planning and playground build execution

Contact: Grant applications can be filled out at the KaBOOM! website; kaboom.org

M. Foundation Grants

Anthem Foundation – Provide grants to communities to support health related programs.

Clif Bar Family Foundation – Provides grants for projects that increase opportunities for outdoor activity, reduce environmental health hazards and build stronger communities.

National Environmental Education Foundation – Awards grants for the promotion of a safer and healthier environment.

Tony Hawk Foundation – Grants provided for the creation of skateparks.

U.S. Bank Foundation Community Grant Program – Grant support for play spaces for K-12 students in low to moderate income areas.

The U.S. Soccer Foundation – A grant program that supports soccer programs and field construction.

Youth Outside – Provide grants to promote nature based outdoor experiences to children.

N. Online Grant Provider Lists

- Fundsnet Services
- SPARK Grant Finder
- The Grant Helpers
- Afterschool Alliance Funding Database
- Federal Grantswire
- Grantmakers in Aging
- NPRA Grant Resources
- Grants.gov
- American Therapeutic Recreation Association

O. Purchasing Partnerships
Description: Some equipment suppliers will allow multiple municipalities to make group purchases of equipment. Details of this type of agreement vary between manufacturers, but the result will often be a reduced cost to the purchasing municipalities. Examples include Buy Board https://www.buyboard.com/ and US Communities http://www.uscommunities.org/.

P. Friends of the Park Foundation
Description: The National Association of Park Foundations helps communities create Friend of the Park Foundations for their local park system. An annual fee for membership can be used to fund park projects. Membership in the foundation includes educational programs, advocacy, networking opportunities and other information related to local parks.

4.4 Capital Improvements Plan

Capital improvements to a park are the addition of labor and materials that improve the overall value and usefulness of that park. Capital improvements are designated and funded individually through segregated municipal funds. Routine maintenance, on the other hand, is considered to be the repair and upkeep of existing park facilities, such as painting a shelter building. Routine maintenance of park facilities does not appreciably increase the value or usefulness of the park, and is traditionally funded through the park department's operations budget. Non-routine maintenance of park facilities, such as upgrading a toilet facility to be barrier-free, is usually considered to be a capital improvement.

Most projects can be easily identified and categorized, but some are difficult. When a project falls on the borderline between a capital improvement and maintenance, the overall cost becomes the determinant. Projects with a high cost, such as that for seal coating roads or parking lots, are categorized as capital improvements.

The capital improvements program for each park is a combination of several types of projects. These projects are ranked according to their importance and priority in the overall development of the park and the value of the project to the overall Village park system. Capital improvements for this plan are ranked in the following manner:

a. Improvements to existing facilities that will:
    i. Correct health and safety hazards
    ii. Upgrade deficient facilities
    iii. Modernize adequate but outdated facilities

b. Installation of facilities as deemed appropriate and necessary through public demand (public meetings, park committee input, Village budgeting)

c. Development of new facilities as deemed necessary through level of service, population projection and age cohort analyses

Generally, improvements to existing facilities rank the highest in the capital improvements program. New facilities are usually ranked lower, according to their relative need in each park location. Improvements that correct health and safety hazards are always given the highest priority. Improvements that are deemed necessary through empirical analyses are usually ranked the lowest.

Parks have been divided by classifications established by the National Recreation and Park Association (NRPA) including Mini, Neighborhood, Community, Conservancy, and Special Use parks. Improvement costs are shown by year (2020-2024), establishing a priority ranking – higher priority improvements would occur sooner in the schedule. In some cases, a capital improvement may utilize a special fund. When this occurs, the improvement contains an identifier citing that particular funding source. Depending on the fund, it may or may not be reflected in the subtotal for each park type.

Potential costs for site master plans were not included in the Capital Improvement Plan (CIP) table but should be accounted for the budget planning. Depending on the level of public involvement and final deliverables, the City should

anticipate a cost of $15,000-$25,000 for each site Master Plan. It should also be noted that if the City brings on new parklands, the required maintenance for these new facilities will also carry a long-term cost implication. A basic mini-park for example will require at a minimum, weekly mowing. Neighborhood and Community parks will require mowing, snow removal, playground maintenance and potentially other monthly or annual upkeep depending on the level of facility development.

The Capital Improvement Plan table was provided to the Village to guide future park development. It is intended to function as a “living” document and is editable as project funding, timing and priority change in the future.

Appendix A:

Facilities Matrix

Appendix B:

Maps

Appendix C:

Parks and Open Space Survey

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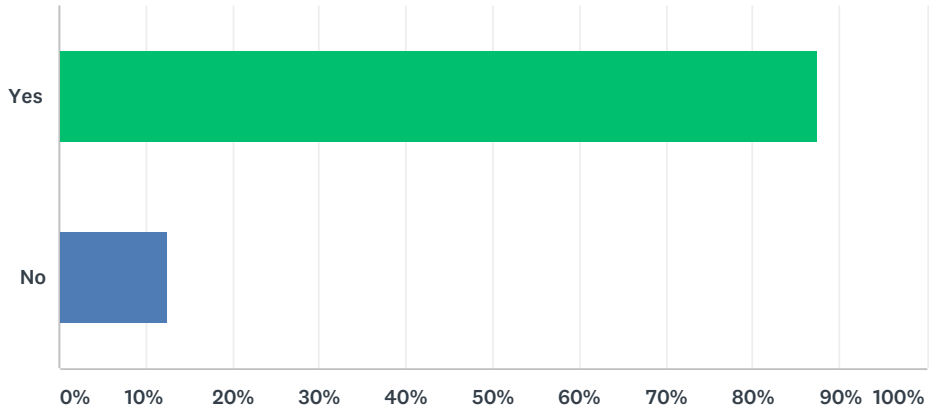

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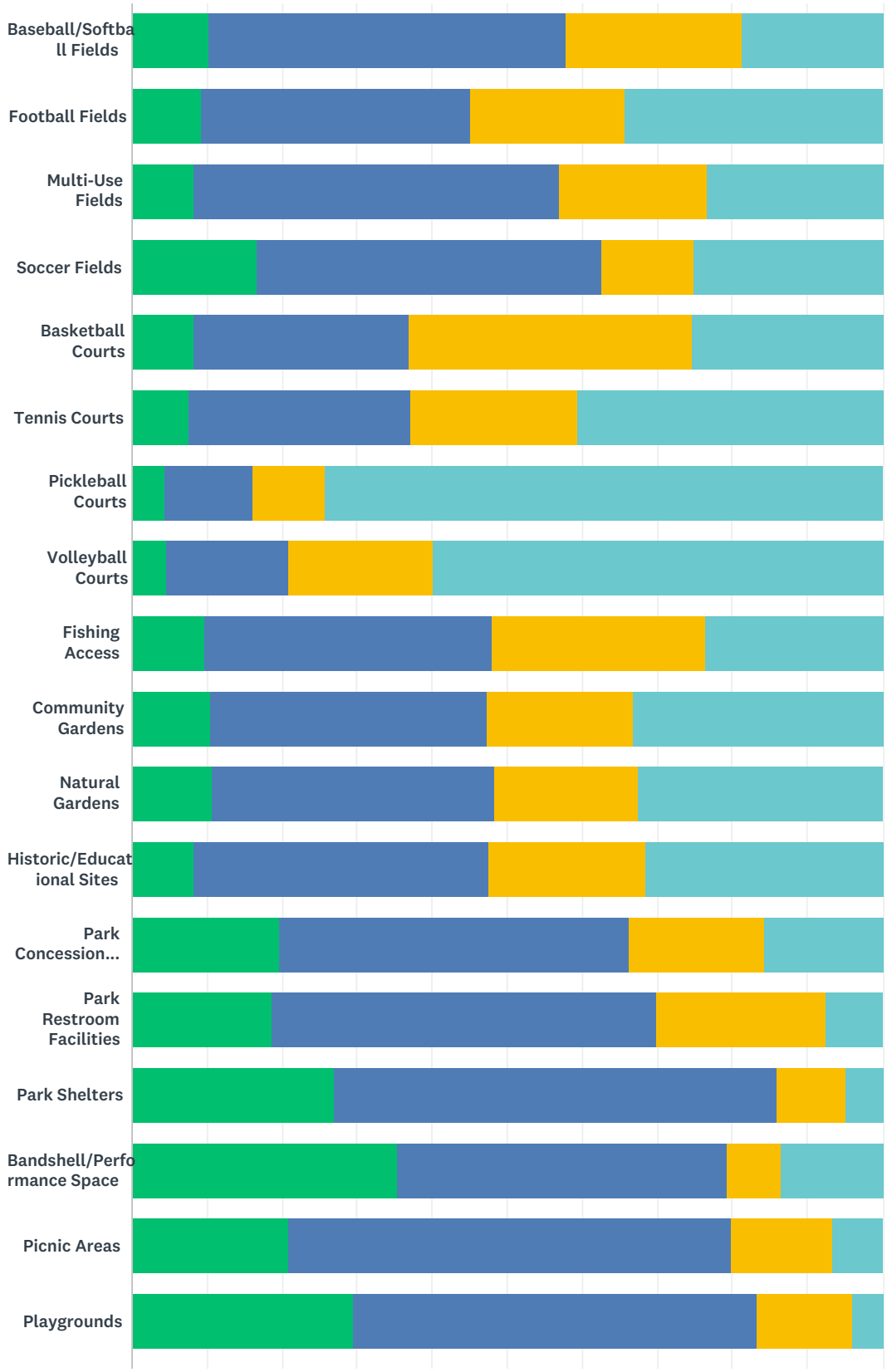

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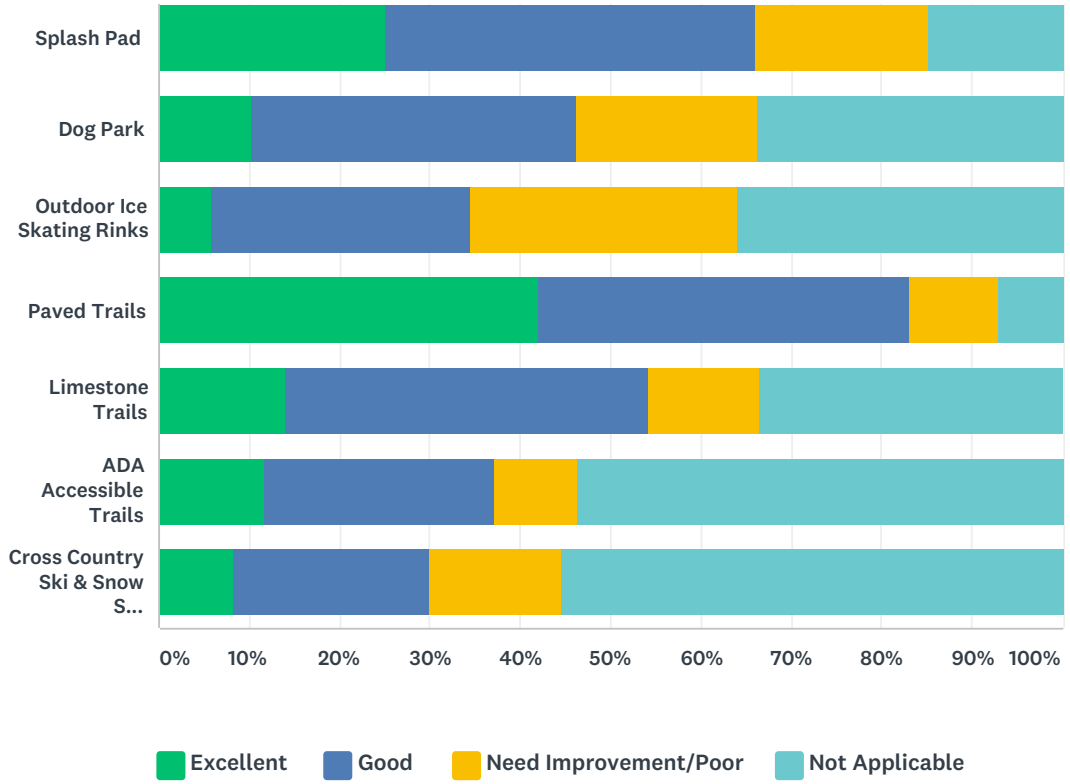

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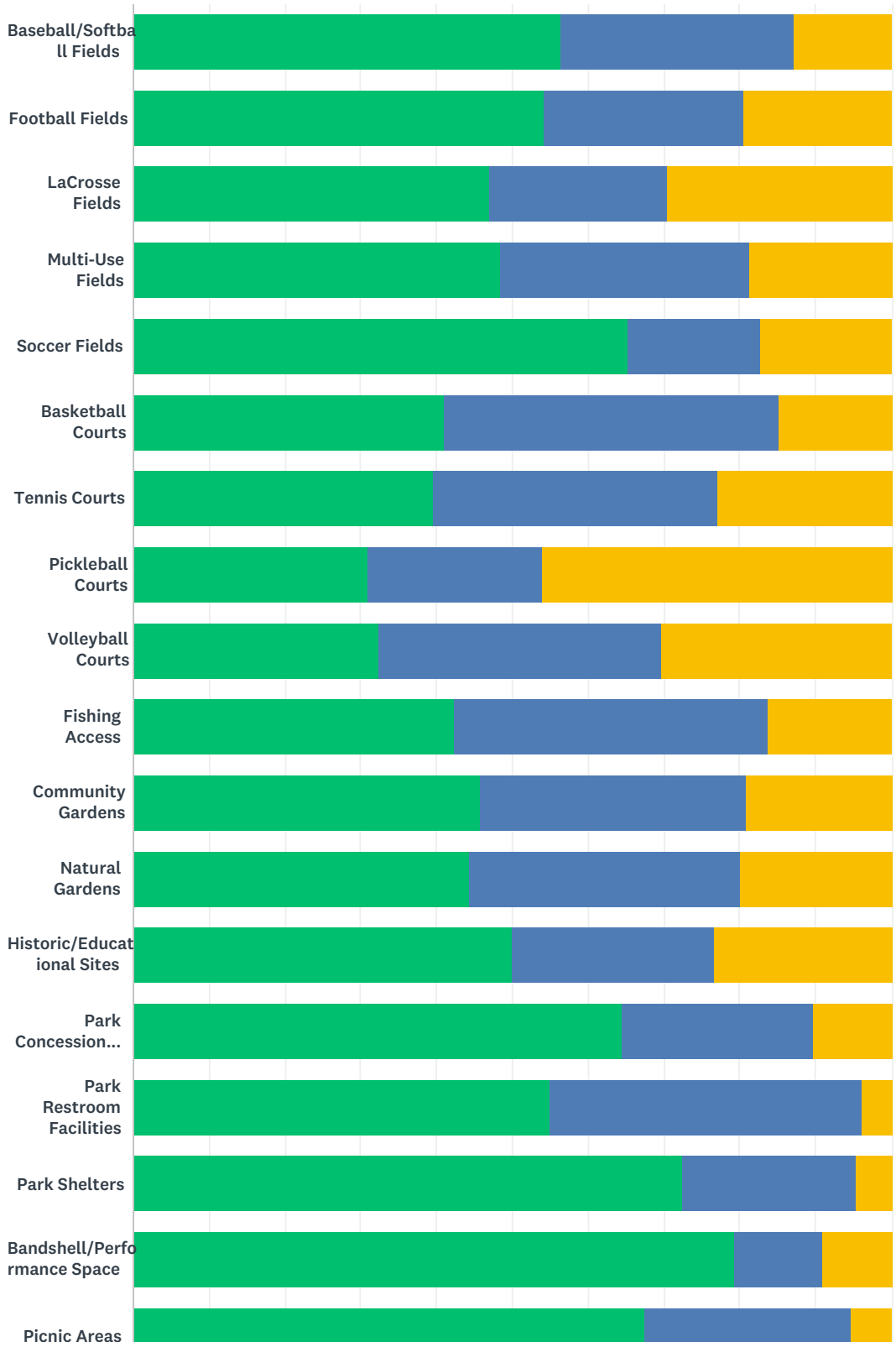

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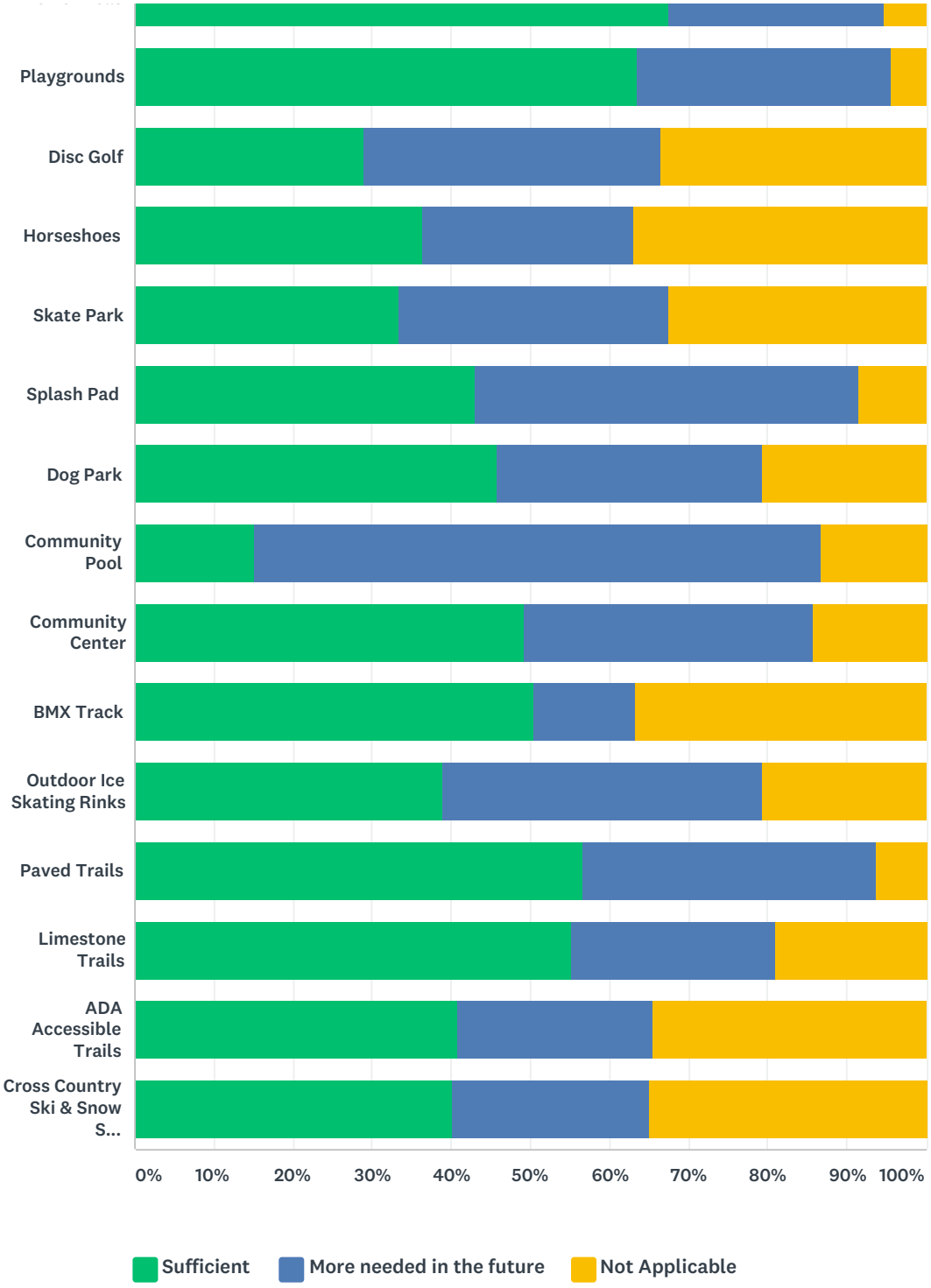

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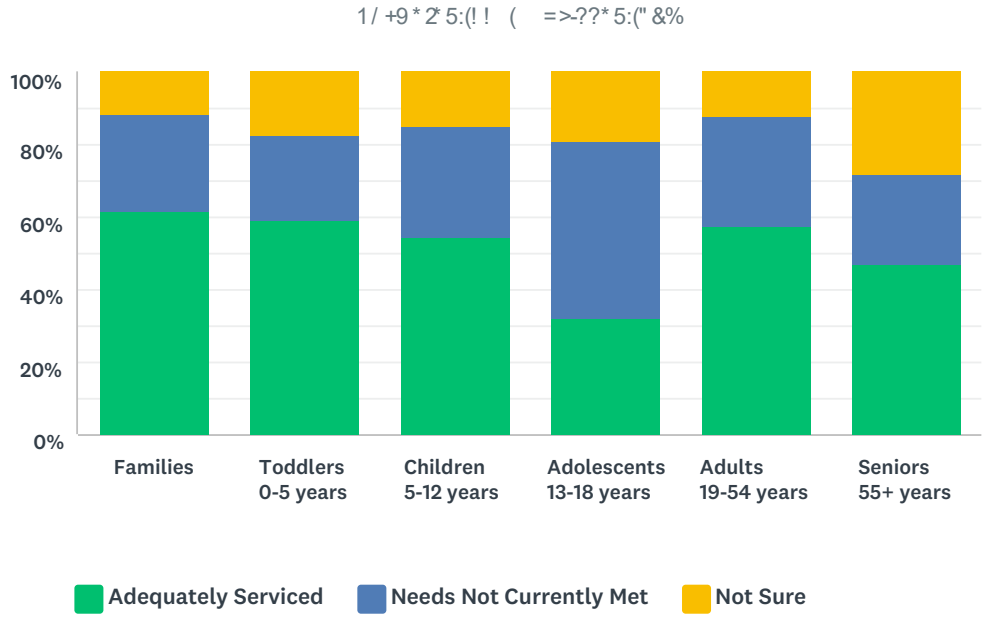

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$	=?G4+I (?45(/ * * 5* 5(-/ (7-2* T 4/ +(?42> (@ * (H T T) / -,3(94/ ,+(4(?. . G(9 * (42* (S2 9 -/ S(4/ 5(+I .) G5/ _ I 4J* (,. (,24J* G) ,(. 0(,. 9 / (0 2(. / *	" E%<E%<$; (; :" &(1 N
$;	@ * / 4S* 2+(-/ (,I -+(J-G4S* (/ * * 5(4(?G4H* (9 I * 2* (,I * 3(H4/ (S. (4/ 5(M* / * 0,(02 T (H) G) 24G(4H,J-,-* +(4/ 5 42,+(* / S4S* T * / ,	" E%<E%<$; (; :$! (1 N
%<	@ * 2* (-+(/ . (?G43S2) / 5(* \ ) -?T * / ,(0 2(H -552* / (G++(,I 4/ (%(3* 42+(. G5(4,(4/ 3(. 0(,I * (42* 4(?42>+ (c * I 4J* (,. (S. () +* (,I * (16 1 (* \ ) -?T * / ,(4,(,I * (* GT * / ,423(+H . . G(0 2(.) 2(,. 55G52(,. (I 4J* (4(?G4H* (,. ?G43(.) ,+-5* [(4/ 5(,I . +* (+?4H* +(42* (. / G(4J4-G4MG(.) ,+-5* (. 0(+H . . G4 .) 2+	" E%<E%<$; ($%" &(1 N
%$	c W(c 1D@1(=FB1=V(F16(1@7YXWN1D=(F1Xe(1D6(DWc (QANNPDY@C(QWD@WX(c (1(7AA6 F1D@XC	" E%; E%<$; ($$:! &(FN
%%	Y(9 .) G5(M* (/ -H* (,. (I 4J* (4(?. . G0 2(>-5+(,. (?G43(-/ f	" E%; E%<$; ($<:& (FN
%&	@ * 2* (/ * * 5+(,. (M* (T . 2* (0 2(,9 * * / +(4/ 5(,* * / +(,. (5. (@ * (H T T) / -,3(H* / ,* 2) +* 5(,. (M* (0 2 * J* 23. / * [(/ . 9 (-,_+(4(+* / -. 2(H* / ,* 2	" E%; E%<$; ($<:% (FN
%	N . 2* (4H,J-,-* +(0 2(9 . 2>-/ S(04T -G* +	" E%; E%<$; (; :" (FN
%'	L 4,I 2 . T (04H-G,-* +(-/ (,I * (/ * 9 (?42>(-+(4(`. >* (fffff(c I . (H) G5(+?* / 5(4GG I 4,(T . / * 3(4/ 5(I 4J* M4,I 2 . T +(0 2(4(S2) ?(.) ,-/ S(. 0(%<(?* . ?G(fff(@ * (M 425(4/ 5(?G4/ / * 2+(02 T (,I -+(,. 9 / (+I .) G5(4GGM* 02* 5 (Y>/ . 9 (,I * (.) ,+-5* (?2 0* ++-. / 4G(,. G5(3.) (9 I 4,(3.) (/ * * 5* 5[(M) ,(3.) 2(422 S4/ H* (G,+(3.) M* G* J* (3.) (>/ . 9 (M* ,,* 2(c I 4,(4/ (4M+. G,* (`. >* (ff	" E%; E%<$; (; :! ; (FN
%K	N . 2* (4H,J-,-* +(0 2(,. 55G52+	" E%; E%<$; (; :! ; (FN
%	D* * 5(T . 2* (2* +,2 . T +(4G/ S(,I * (P??* 2(C4I 424(,24-G(c * (4G. (/ * * 5(T . 2* (S42M4S* (M4+>* ,+(,. 5-+?. +* (. 0(,24+I (4G/ S(,I * (,24-G(YT (?+H+>-/ S() ?(,24+I (4/ 5(I 4J* (,. (H4223(-,(,. (G/ S(4(5-+,4/ H* (. / (,I * P??* 2(C4I 424(,24-G(YT . 2* (,24+I (M/ (Y5(/ * * 5* 5	" E%; E%<$; (; :$ (FN
%	Y(M* G* J* (5* 0 2* +,(4/ 5(9 -/ 5+. 2(/ * * 5(T . 2* (,I -/ S+(0 2(,* * / 4S* 2+(,. (5.	" E%; E%<$; (:&K(FN
%,	N . 2* (,I -/ S+(0 2(,* * / 4S* (S-23G(,. (5. ((B->* (?G4H* +(,. (+I . ?(4,(4/ 5(H240(+,. 2* (. 2(+. T * ,I -/ S(ffff	" E%; E%<$; (:% (FN
&<	F) MG-(Y * ^?* / +-J* (F. . G	" E%; E%<$; (:% (FN

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&$	B-T -,* 5(M4+>* ,M4G4/ 5(J. G3M4G(C.) (I 4J* (M4+>* ,M4G2. G+(+* ,) ?(4,(02* T 4/ d+(?42>(+-/ H* (G+,(3* 42 M) ,(,I * 2* (42* (/ . (I . . ?+(. / (,I * T	" E$; E/<$; (:$; (FN
&%	D* * 5(T . 2* (?G43E* 5) H4,-. / (0 2(,. 55G2+	" E$; E/<$; (:$$(FN
&&	Q.) G5() +* (4/ (45) G(* ^* 2H+* (?42>[(4G. (,I * (I -G(?42>(4,(02* (T 4/ +(?42>(42* (I 425(,. (9 4G(,I 2) SI	" E$; E/<$; (:$<(FN
&!	1 (H T T) / -,3(?. . G4/ 5(9 4,* 2(?42>(9 .) G5(M* (S2* 4, (=. 0M4G(G54S) * +(0 2(45) G+(4G. (/ * * 5* 5	" E$; E/<$; (:<%(FN
&"	D* * 5(4H,) 4G+. H-H* 2(0* G5+[(+?G4+I (?45+[(?. . G(* ,H	" E$; E/<$; (:& (FN
&K	@ . (T 4/ 3(+?G4+I (?45+ (D* * 5(+. T * ,I -/ S(0 2(. G5* 2(>-5+ (WJ* / (,I * (/ * 9 * 2(?42>+(42* (0 2(+) ?* 2(G,G >-5+ (N 3(>-5+(GJ* 5(,I * (. G5(02* T 4/ d+(?42>0,I * 3(I 4,* (,I * (/ * 9 (. / *	" E$; E/<$; (:&" (FN
&	@* 2* (/ * * 5+(,. (M* (4(H T T) / -,3(?. . G6	" E$; E/<$; (:&&(FN
&	F42>+(42* (/ -H* (I . 9 * J* 2(,I * 2* (-+(/ . (+I 45* (4,(4/ 3(?42>(9 I -H (-+(4(H / H* 2/ (0 2(+T 4G(>-5+(4+ * \ ) -?T * / ,(S* ,+(J* 23(J* 23(I . ,(-/ (,I * (+) T T * 2(1 (+?G4+I (?42>(4,(7-2* T * / +(?42>(9 .) G5(M* (S2* 4,(0 2 ,I -+(2* 4+. / (4/ 5(9 .) G5(I * G(+) ??. 2(,I * (M) +-/ * ++* +(-/ (H* / ,24G6 * 0 2* +, (1 +(4(?42* / ,(9 -,I (3.) / S H -G52* / (T 3(H / H* 2/ (-+(4G. (I 4J* (45* \ ) 4,* (+?4H* (0 2(>-5+(9 I . (42* (. G5* 2(4/ 5(T 43(/ * * 5(T . 2* . ??.) 2) / -,-* +(0 2(4H,-J-,-* +(. ,I * 2(,I 4/ (?42>+	" E$; E/<$; (:% (FN
&;	Y5(GJ* (4(H T T) / -,3(?. . G(Y0* * G9 * (I 4J* (+. (T 4/ 3(+?G4+I (?45+(4/ 5(,I -+(-+(2* 4G3(. / G(S. . 5(0 2 * ^,2* T * G(3.) / S(>-5+	" E$; E/<$; (:% (FN
! <	N . +,(2* H(?2 S24T +(42* (,. 55G2(. 2(>-5+(O() ? (D* * 5(T . 2* (0 2(! O	" E$; E/<$; (:%' (FN
! $	D* * 5(4(H T T) / -,3(H* / ,* 2(0 2(T . 2* (,I 4/ (`) +,(+* / -. 2+ (D* * 5(4(?G4H* E4H,-J-,-* +(0 2(T -55G(+H . . G4/ 5 I -SI (+H . . G>-5+(,. (I 4/ S(.) ,(-0(,I * 3(42* (/ . ,(-/ J. G* 5(-/ (+?. 2,+	" E$; E/<$; (:%' (FN
! %	D. ,(4G9 43+(* / .) SI (H . -H* +(0 2(G,G(. / * +	" E$; E/<$; (:%% (FN
! &	Q. / +* 2J4/ H3(F42>(5. * +(/ . ,(I 4J* (T) H (-/ (,I * (?G43S2) / 5(0 2(,. 55G2+ (7. 2(04T -G* +OT . 2* (?42>+(-/ / * -SI M 2 . . 5+(Q. T T) / -,3(Q* / ,* 2(9 -,I (G,+(0 2(>-5+(,. 543 4G. (T 43M* (4(,* * / (H* / ,* 2(G>* (,I * (. / * ,I * 3(I 4J* (4,(U. . 5T 4/ (Q. T T) / -,3(H* / ,* 2(-/ (N45-+. /	" E$; E/<$; (:%$(FN
! !	D* * 5(T . 2* (0 2(,* * / +(,. (5. (7-2* T 4/ d+(?42>(I 4+(>-5+() ?(,. (/ . (S. . 5(I 4/ S-/ S(42) / 5(-/ (,I * 40* 2/ . . / E* J* / -/ S(+. (9 * (+,. ??* 5(,4>-/ S(.) 2(>-5+(,I * 2*	" E$; E/<$; (:$ (FN
! "	D-,(* / .) SI (0 H) +(4/ 5(. ?,-. / +(0 2(J* 23(G,G(>-5+	" E$; E/<$; (:$K(FN
! K	D* * 5(T . 2* (0) / (,* * / (I 4/ S(.) ,+(4/ 5(4(H T T) / -,3(?. . G6	" E$; E/<$; (:$" (FN
!	D. ,(T) H (0 2(. G5* 2(H -G52* / (4,(,-T * +(?42* / ,+(42* (4MG(,. (I * G(,24/ +?. 2,(40* 2(9 . 2>(I .) 2+	" E$; E/<$; (:$&(FN
!	Y(0* * G6G>* (,I * 2* (-+(4(S4?(0 2(,I -/ S+(0 2(,* * / 4S* 2+(,. (5.	" E$; E/<$; (:$%(FN
! ;	@ . (T 4/ 3(+?G4+I (?45+(4/ 5(42* 4+E242>+(H* / ,* 2* 5(42) / 5(,. 55G2+ (1 +(T 3(>-5+(I 4J* (S2 9 / (.) ,(. 0 +?G4+I (?45+(9 * (I 4J* (,. (S. (,. (. ,I * 2(H T T) / -,-* +(0 2(4/ 3E4G6+) T T * 2(4H,-J-,-* +	" E$; E/<$; (:$<(FN
" <	D. ,(4(G,(. 0(. ?,-. / +(0 2(,I -+(S2) ? (D. ,(+) 2* (9 I 4,(,I 4,(9 .) G5(M* [(M) ,(4+>-/ S(,I * T (9 .) G5(M* (4(S. . 5 +,42 (@* (2* / . J4,-. / +(. 0(,I * (?42>+(+* * T +(S* 42* 5(,. 9 425+(3.) / S* 2(>-5+(g9 I -H (-+(S2* 4,H[(M) ,(/ . ,(4+ 0) / (0 2(. G5* 2(>-5+E*2* ,* * / +	" E$; E/<$; (:$<(FN
" $	@* 2* (-+(/ . ,I -/ S(,. (5. (. 2(+* * (. 2(* J* / ,+(,I 4,(42* (5* H* / ,(,. (,4>* (T 3(! (3* 42(. G5(+. / (,. (M* +-5* +(,I * ?42> (c * (4G9 43+(* / 5() ?(S. -/ S(,. (.) 2(,. 9 / +E4,-* +(,. (4,,* / 5(* J* / ,+[(?42>+[(+?G4+I (?45+(* ,H	" E$; E/<$; (:<; (FN
" %	=* / -. 2(Q* / ,* 2(9 . 2>.) ,(42* 4(+I .) G5(M* (. ?* / (G4,* 2(,. (4H-I T T . 54,* () +(. G5* 2(,I 4/ (K<(,I 4,(+,-G6(9 . 2>	" E$; E/<$; (K:! &(FN
" &	6 * 7. 2* +,(/ * * 5+(4/ . ,I * 2(0) G6+-a* 5(M4+* M4G65-4T . / 5(,I 4,(H) G5(M* () +* 5(M3(V. T * (@4G/ ,[(B* S-. / [L 4M* (X) ,I (4/ 5(Q4G(X-?>* / (G4S) * + (1 55-,-. / 4G;* / / -+(H) 2,+(,I 4,(42* (/ . ,(M) -G(. / (4(T 42+I 3(42* 4 9 .) G5(M* (S. . 5 (Q.) 2,+(4,(V=(>* * ?(H24H>-/ S(5) * (,. (?. . 2(+) 204H* () / 5* 2/ * 4,I (,I * T (F-H>G5M4G6H) 2,+ 9 .) G5(4G. (M* (S. . 5(4+(,I 4,(-+(M* H T -/ S(J* 23(?. ?) G42(Q. T T) / -,3(?. . G9 .) G5(M* (S2* 4,(0 2(04T -G* + -/ (455-,-. / (,. (,I * (+?G4+I (?45	" E$; E/<$; (K:% (1N
" !	6 * 7. 2* +,(+I .) G5(I 4J* (M2) +I (?-H>() ?(4,(T -/ -T) T (4(0* 9 (,-T * +(?* 2(3* 42(=) 22) / 5-/ S(,. 9 / +E4,-* +(4G 5. (Y(-+(T . +,G(,I * (* G5* 23(Y+* * (,4>-/ S(M2) +I (5-9 / (1G. (. / H* (-2(,9 -H* (4(6 * 7. 2* +,(+I .) G5(I 4J* (i 02* * i (,24+I (543(4+(. ,I * 2(,. 9 / +E4,-* +(/ * 42M3(5. (= . (T) H (`) / >(G4-/ S(42) / 5(,I 4,(S42M4S* (9 -G6(. , ?-H>() ? (Y_+(4(+I 4T * (H / +-5* 2/ S(,I * (4T .) / ,(. 0(,4^* +(9 * (?43	" E$; E/<$; ($<:$ (1N
" "	N . 2* (H) 2(+?4H*	" E$; E/<$; ($<:$ (1N

" K	7. 2(.) 2(,* * / +[(?4H* +(,I 4,(. 0* 2(9 I 4,(,I * 3d2* (-/ ,* 2* +,* 5(-/ (G>* (=>4,* (?42>+[(LN] (,24-G(Z(4(?. . G(7. 2 .) 2(* G* 23[(* 4+-G(4H-H* ++-MG(42* 4+(T 43M* (45* \ ) 4,* (@.) SI (?4H* +(,. (+-,(-/ (,I * (+I 45* (Z(=4+* M ,. (9 4,* 2(4H-H* ++-MG(,. (9 4,* 2(@* 2* (-+(4G. (,I * (/ * * 5(0 2(T . 2* (2* +,2 . T +(4,(?42>+(4G/ S(,I * (,24-G @* (P??* 2(C4I 424(X-J* 2(@24-G 4+(/ . / * (Y(-+(I 425(,. (H T ?G,* (,I * (,24-G* J* / (. / * (9 43(-0(3.) (5. / d G* (4G/ S(. 2(-/ (HG+* (?2 ^-T -,3(. 0(-, (V4J-/ S(* J* / ($(4,(T -5(?. -/ ,(9 .) G(. ?* / () ?(,I * (4M-G3(0 2(4G 4S* +(,. () +* (,I -+(9 . / 5* 2() G(24-G(T . 2* (. 0* / (Z(4,(G/ S* 2(5) 24,-. / +	" E$ E%<$; (:" <(1 N
"	@* 2* (/ * * 5+(,. (M* (T . 2* (?42>+(G>* (,I * (/ * 9 (+,) 0(-/ (02* T 4/ d+(?42>(0 2(3.) / S(>-5+ (1 (+?4+I (?45(. / ,I * (. ,I * 2(+-5* (. 0(,. 9 / (9 .) G(M* (/ -H* (,. .	" E$ E%<$; (K:! $(1 N
"	@* 2* (42* (/ . ,(* / .) SI (?2 S24T +(0 2(,I * (J* 23(3.) / S (@* 2* (9 * 2* (T . 2* (,I -/ S+(. 0* 2* 5(4+,(3* 42 @* 2* (I 4+/ _(M* * / (T 4/ 3(* / 2H T * / ,(H4++* +(-/ (,I * (?4+, (L) ,(H T ?42-/ S(9 -,I (. ,I * 2(H T T) / -,-* +[(-, T -SI ,(M* (S. . 5(,. (I 4J* (45) G(H* / ,* 2* 5(H4++* +	" E$ E%<$; ($<:! " (FN
" ;	@* / +(H) G(M* / * 0,((02 T (4(+,2) H) 2* 5(42* 4(+) H (4+(4(+>4,* ?42> (A G* 2(45) G+(9 .) G(?2 M4M3 4??2* H4,* (T . 2* (?-H+G(M4(G+?4H*	" E$ E%<$; (:&$(FN
K<	=?4+I (?45+(42* (. / 3() +* 5(0 2(4(H) ?G(3* 42+(M(,. 55G2+ (Q. T T) / -,3(?. . G(-/ (4(H* / ,24-G(GH4,* 5 ?42>(gG>* (7-2* T 4/ d+(F42>H(24-+* +(T . / * 3(0 2(,I * (H T T) / -,3[(4/ 5(4G9 +(04T -G* +(. 0(4G4S* +(,. (+,43 .) ,(. 0(,2) MG(4/ 5(I 4J* (* / ,* 24-/ T * / ,(9 -,I (02* / 5+(9 I -G(S* ,,-/ S(49 43(02 T (* GH,2 / -H+(4G+) T T * 2* 6 * 0 2* +,(DWW6 =(,I -+f	" E$KE%<$; (! :" (FN
K$	D* * 5(T . 2* (-T ?2 J* 5(9 4G-/ S(?4,I + (N P=@I 4J* (4(H-,3(?. . GF(D. ,(4/ . ,I * 2(+?4+I (?45	" E$KE%<$; (! :<<(FN
K%	N . 2* (4H-H* ++-MG(+* 2J-H* +(4/ 5(?2 S24T +(0 2(+?* H4G(* * 5+	" E$KE%<$; ($:& (FN
K&	c * (/ * * 5(4/ (.) ,5. . 2(?. . GZ(T . 2* (42* 4+(-/ (?42>+(0 2(>-5+(&(4/ 5() / 5* 2	" E$KE%<$; ($:$! (FN
K!	D* * 5(H T T) / -,3(-/ ,* 24H-. / (9 -,I ($&(4/ 5() ?	" E$" E%<$; (; :! K(FN
K"	@* 2* (-+(/ . ,I -/ S(0 2(4,* (,* * / +E3.) / S(45) G+(,. (5.	" E$" E%<$; (; :$" (FN
KK	=>4,* M 425-/ S	" E$" E%<$; (:$" (FN
K	Y(-22,4,* +(T * (,I 4,(9 * (H / ,-/) * (,. (-T ?2 J* (H) 22* / ,(?42>+(3* ,(9 * (5. / d(I 4J* (* / .) SI (0 2(4G, 0(,I * H T T) / -,-* + (c * (I 4J* (G,+(. 0j 5* 45k(+?4H* (42) / 5(,I * (H T T) / -,3(9 I * 2* (4(0* 9 (+G5* +(4/ 5(+9 -/ S+ H) G(S. () ?(3* ,(9 * (H / ,-/) * (,. (+?* / 5(T . / * 3(. / (?4H* +(,I 4,(4G2* 453(I 4J* (,I * T (Y5(GJ* (,. (+* * (4 ?42>E?4G3(?4H* (9 -,I -/ (* 4H (+) M5-J-+-. /	" E$" E%<$; (K:% (FN
K	=* H,-. / +(. 0(,. 9 / (42* (H) ,(. 0(02 T (,I * (?4J* 5(,24-G(9 -,I (. / G3(9 -5* (. ?* / (H2 ?(0* G5+(M* ,9 * * / (L2-/ S 4H-H* ++f(F4G3S2) / 5+(+I .) G(M* (-T ?2 J* 5() ?. / (2* S) 4G23[(-/ +,* 45(. 0(4G(9/ (. / * (+I . , (7-+I -/ S 4H-H T T . 54,-. / +(+) H> (W,I * 2(GT -,* 5(,. (/ . (4H-H* ++(. 2(4\ ) 4,-H(9 * * 5(04H. 23	" E$" E%<$; (%<<(FN
K;	Q. T T) / -,3(F. . G(0 2(QI -G2* / (4/ 5(15. G+H* / ,+(@* (M>* (,24-G(-/ (6 * 7. 2* +,(?2 ?* 2(H) G(M* S2 . T * 5(0 2(H2 ++(H) / ,23(-/ (,I * (9 -/ ,* 2(0 2(45) G+ (@* (M4/ 5(+I * G(+I .) G(M* (24-+* 5(G>* (4(?2 ?* 2 +,4S* (+. (* J* 23. / * (H4/ (+* * (4/ 5(HG+* 5(G>* (4(+I * G(0 2(?2 ?* 2(4H) +,-H+(4/ 5(+I * G* 2(02 T (,I * * GT * / ,+	" E$! E%<$; (&:! ! (FN
<	N . 2* (4H-J-,-* +(4/ 5(. ?,-. / +(0 2(. G* 2(H -G2* / (4/ 5(04T -G* +	" E$&E%<$; ($$:<&(FN
$	Y,I -/ >(,I * 2* (/ * * 5+(,. (M* (T . 2* (,I -/ S+(0 2(>-5+(4S* ($<G$" (,. (5. (L * -/ S(4H-J5(I (G++(G>* G3(0 2(-5G ,-T * (4/ 5(,2) MG	" E$&E%<$; (" :! (FN
%	F@43S2) / 5+(M* ,,* 2(0 2(3.) / S* 2(H -G2* / E. 55G2+ (1 (?42>(-/ (=) / / 3M2 . >(F42>(24,I * 2(,I 4/ (4 2* 0GH,-. / (S425* / (9 .) G(M* (T . 2* (-5* 4G	" E$&E%<$; ($:! $(FN
&	Q. / / * H(,I * (,24-G(0 2(M>-/ S(N . 2* (,* / / -+(H) 2,+(=-/ H* (9 * (42* (+?* / 5-/ S(+. (T) H (. / (,4^* +(M* H4) +* . 0(,I * (/ * 9 (+H . . G(H4/ (9 * () +* (+. T * (. 0(,I 4,(T . / * 3(,. () ?54,* E* / I 4/ H* (-,* T +(4/ 5E2() +* (,I * (+H . . G 04HG-* +(0 2(2* +-5* / ,+	" E$&E%<$; ($$:" <(1 N
!	N . 2* (?-H+G(M4(G4/ 5(G++(M4+* M4(GF. 0(M4(G(053-/ S(+?. 2(4/ 5(-,d+(94+,* (. 0(T . / * 3	" E$&E%<$; (:&! (1 N
"	Y(455-/ S(4/ 3,I -/ S(,. (=) / / 3M2 . >(?G4+* (H / +-5* 2(4(?4G3S2) / 5(4/ 5(/ . ,(4(2* 0GH,-. / (S425* / f(A / (4 9 I . G([(-0(,I * (R-G(S* (4H,) 4G3(I 4+(4G(,I * (,I -/ S+(T * / ,-. / * 5(-/ (,I -+(+) 2J* 3[(9 * (I 4J* (?G/ ,3(. 0(. ?,-. / + +. (?G4+* (M* (T . 2* (M) 5S* ,(02* / 5G3 (A) 2(M) 5S* ,+(42* (+,2* ,H * 5(,I -/ (40* 2(.) 2(,4^* +(S* ,,-/ S(24-+* 5 4S4-/ (M8(,I * (2* 0* 2* / 5) T (4/ 5(S* ,,-/ S(2* 4++* ++* 5(I -SI * 2(,. (24-+* (,I * T (0) 2,I * 2(@4>* (-,(* 4+3(. / () +	" E$&E%<$; (:&%(1 N
K	?-H+G(M4(G+H) 2,+(4/ 5(,* / / -+(H) 2,+(/ * * 5* 5	" E$%E%<$; (:! K(FN
	=) / / 3M2 . >(D* -SI M 2 . . 5(I 4+(4(9 . / 5* 2() G(S2* * / (+?4H* (M) ,(-+(+. 2* G3(G4H+-/ S(4(?G43S2) / 5 (@* 2* -+(/ . (?G43S2) / 5(,. (9 4G3(,. (* 4+-G3(4/ 5(+40* G3(0 2(>-5+ (F) ,,-/ S(-/ (4(T . 5* +,(?G43S2) / 5(4, =) / / 3M2 . >(?42>(9 .) G5(+,-G(G4J* (4(,. / (. 0(S2* * / (+?4H* (1 D6 (-,(9 .) G5(M* (4(0) / (?G4H* (,. (+,. ?(0 2(4 M2* 4>(. / (,I * (M>* (,24-G	" E$%E%<$; (%! ; (FN

	6 43,-T * (?42>+(4/ 5(2* H(H2+++* +(-/ H(5-/ S(m) T M+(U . (5(4/ 5(?-H>(5M+(G(5++. / +	"E$%E/<$; ($:&! (FN
;	N . 2* (4H,-J-,-* +(0 2(T -55(5(+H . . (+S* +[(5>* (4(3.) ,I (H T T) / -,3(H* / ,* 2	"E$%E/<$; (; :<<(1 N
<	F2 J-5* (+. T * ,I -/ S(0 2(>-5+($&(3 (+. (,I * 3(42* (/ . ,() +-/ S(,I * (0+T -3(42* 4+(0 2(S240,-[(52) S+[(+* ^ (Y(-+ 5-+S) +,-/ S	"E$%E/<$; (:% (1 N
$	1 (?. . (+/ 5E 2(. ,I * 2(4H,-J-,-* +(0 2(. (5* 2(>-5+(g . / (,. 55(52+H(9 .) (5(M* (/ -H*	"E$$E/<$; (:! $(FN
%	@ / / -+(H) 2,+(42* (/ * * 5* 5 (F . ++-M3(4(+>4,* (?42> (A(5* 2(>-5+(I 4J* (5-0* 2* / ,(/ * * 5+(4/ 5(?(43S2) / 5+ 5. / ,(H) ,(-,	"E$$E/<$; ($%< (FN
&	Y(-+(4(I 425(4S* (M) ,(9 * (/ * * 5(T . 2* (?2 S24T -/ S(0 2(,I * ($&(,. ($K(3* 42(. (5+[(T 43M* (+. (T * (-/ ,2 (,. J. (5/ ,* * 2/ S(. 2(,24-/ -/ S(,. (9 . 2>(-/ (+. T * (. 0(,I * (?42>+(?2 S24T +	"E$$E/<$; ($%<<(FN
!	@ / / -+[(?-H>(5(M+(G(4/ 5(* J* / ,+(0 2(. (5* 2(45) (5*	"E$$E/<$; ($$:&; (1 N
"	6 . (/ . ,(M* (5* J* (,I * 2* (-+(4(+40* (?(4H* (0 2(,* * / +(,. (I 4/ S(.) ,E4H,-J-,-* +(0 2(,I * T (,. (5. (-/ 5* ?* / 5* / ,(3(. 2 -/ (+T 4(G(S2) ?+	"E$$E/<$; ($<:%%(1 N
K	=?(4+I (?45(/ * * 5* 5(4/ 5(H J* 2* 5(?(43S2) / 5(* \ ) -?T * / ,(/ * * 5* 5(4,(7-2* T 4/ +(F42>	"E$$E/<$; (; :% (1 N
	Y (T 4/ 3(5* 0 2* +,(T . ,I * 2(S2) ?+ [(T . T +(. 0(3.) / S(H -(52* / (42* (. 0* / (G. >-/ S(0 2(+,4/ 5425-a* 5 4H,-J-,-* +(0 2(,I * -2(H -(52* / (,. (+. H+(4+a* (Y 0 2T 4,-. / (-+(/ . ,(M* -/ S(+I 42* 5(-/ (4(9 43(,I 4,(-,_+(S* ,,-/ S(,. ,I * T (-/ (4(,-T * (3(T 4/ / * 2	"E$$E/<$; (:" $(1 N
	Y(+* * T +(,I * 2* (-+(/ . ,(T) H (0 2(,* * / +g . ,(+) 2* (9 I 4,(,I * 3(9 .) (5(XW BBC(9 4/ ,(. J* 2(9 I 4,(9 * (,I -/ > ,I * 3(9 .) (5(9 4/ ,h(4/ 5(/ . ,(T) H (0 2(,* * / +g . ,(+) 2* (9 I 4,(,I * 3(9 .) (5(XW BBC(9 4/ ,(. J* 2(9 I 4,(9 * (,I -/ > ,I * 3(9 .) (5(9 4/ ,h(4/ 5(/ . ,(T) H (0 2(+* / -. 2+ (N43M* (I . 2+* +I . * +[(M H+H* [(+I) 00(5M 425[(9 -,I (/ -H* M* / H * +(,. (+-,(4/ 5(,4M(5+(,. (>* * ?(+H 2*	"E$$E/<$; (:$K(1 N
;	1 (6 0(,I * (?42>+(42* (,. 55(52(?42>+ (c .) (5(GJ* (4/ (.) ,5. . 2(?. . (+4/ 5(T . 2* (,* / / -+E*-H>(5 M+(6(M+(+>* ,M+(6(H+) 2,+ (e * * ?() ?(,I * (S. . 5(9 . 2>(. / (M) -(5-/ S(,24-(5(4/ 5(H / / * H,-/ S(* J* 23,I -/ S (c * (42* * 4+,(. 0(" $(+. (+,-(6(9 4-,-/ S(0 2(T . 2* (M>* (,24-(6H / / * H,-. / +(,. (M* (M) -(5(+. (9 * (H+4/ (4H-H* ++(,I * (H) 22* / , ,24-(6+3+,* T	"E$$E/<$; (:&; (1 N
; <	F(5(4+* (9 * (I 4J* (?(5/ ,3(. 0(?(43S2) / 5+(4/ 5(+?(4+I (?45+(4/ 5(M+(6(0* (5+(-/ (,I -+(H T T) / -,3fff(c I 4, 9 * (/ * * 5(T . 2* (. 0(42* (5) 4(6(?) 2?. +* (,* / / -+(4/ 5(M+(>* ,M+(6(H+) 2,+(g$(-/ (* 4H (/ * -Sl M 2 . . 5h(0 2(. (5* 2 >-5+(4/ 5(45) (5+ (D. ,(* J* 23(>-5(?(43+(M+* M+(6(+. H-H* 2(4/ 5E 2(0 . ,M+(6(Y(-+(H T ?(5,* (3() / 4H-H* ?,4M(5 ,I 4,(,I * (. / (3(,* / / -+(H) 2,+(42* (4,(,I * (I -Sl (+H . . (6(4/ 5(M* H+) +* (,I * (V=(S* ,+(02+,(?2. 2,3(?* . ?(5(42* ,) 2* 5(49 43(9 I * / (,I * 2* (42* (?24H,-H* +[(T 4,H * +[(4/ 5E 2(5(++. / + (@ / / -+(4/ 5(M+(>* ,M+(6(H+4/ (M* ?(43* 5(4+(4(0+T -(3(4/ 5(,* / / -+(-+(4(6(5* ,-T * (+?. 2,	"E$$E/<$; (:& (1 N
; $	@ * (J42* ,3(. 0(2* +.) 2+H* +(+,-(6(* * 5* 5(9 -(6(+* 2J* (4(6(4S* (S2) ?+ (W*:(,24-(5(4/ 5(/ 4,) 24(6(S425* / +(42* 0 2(* J* 23. / * (e-5+(/ * * 5(T . 2* (5-J* 2+* (?(43S2) / 5+(4/ 5(T . 2* (+?(4+I (?45+[(,* * / +(/ * * 5(T . 2* M+>* ,M+(6(H+) 2,+(4/ 5(4(+>4,* (?42>	"E$$E/<$; (:& (1 N
; %	L 4+>* ,M+(6(,* / / -+(H) 2,+[(+>4,* (?42>	"E$$E/<$; (:&$(1 N
; &	c .) (5(GJ* (,. (I 4J* (,* / / -+(H) 2,+(4/ 5(5-+H(S. (6(4J4-(4M(5	"E$$E/<$; (:%&(1 N
; !	c * (I 4J* (/ . ,I -/ S(0 2(,* * / +(,. (5. (* ^H* ?,(M+>* ,M+(6(1 (,* / / -+(H) 2(9 .) (5(M* (/ -H* (. 2(4(+T 4(6(+>4,* ?42>	"E$$E/<$; (:$" (1 N
; "	@ * 2* (42* (/ . ,(4(9 I . (5(G,(. 0(.) ,5. . 2(4H,-J-,-* +(0 2(45. (5+H* / ,+ (H) (5() +* (T . 2* (4H,-J-,-* +(,I * 3 H) (5(25* (,I * -2(M>* +(,. (Y(T (/ . ,(+) 2* (9 I 4,(,I * (+. (6,-. / (-+(0(M) ,(,I * 3(/ * * 5(T . 2* (I * 4(3 3(4H,-J-,-* +(,. +,43(.) ,(. 0(,2) M(5	"E$$E/<$; (:$&(1 N
; K	@ * 2* (H+/ (4(9 43+(M* (T . 2* f	"E$<E/<$; (K:$<(FN
;	D. ,I -/ S(0 2($&(3 (3* 42(. (5+ (9 I * 2* +(,I * (+>4,* (?42>(9 * (9 * 2* (?2 T -+* 5(4/ 5(,I * (R-(6(S* (A e 5(,. (M* M) -(5($" (3* 42+(4S. 8	"E$<E/<$; (%! <(FN
;	D* * 5(2* +,2 . T +(4/ 5(9 4,* 2(0) / ,4-/ (4,(+) / 0+I (?. / 5	"E$<E/<$; ($%< (1 N
; ;	1 (H T T) / -,3(?. . (6 2(-/ H2* 4+* 5(/) T M* 2(. 0(+?(4+I (?45+ (1 55-,-. / 4(6?(43S2) / 5(* \ ) -?T * / ,[(* -,I * 2 / * 9 (?42>+[(. 2`) +,(455-,-. / 4(6 \ ) -?T * / ,(4,(* ^-+,-/ S(?42>+	"E,E/<$; (:! &(FN
$<<	@ * 2* (/ * * 5+(,. (M* (T . 2* (?2 S24T +(0 2(,* * / +(4S* ($%(,. ($ (c * (9 * 2* (-/ ,* 2* +,* 5(-/ (3. S4(M) , ?42,-H?4/ ,+(I 4J* (,. (M* ($K(. 2(. (5* 2(c I 3(H+/ _(,I -+(M* (G9 * 2* 5(-0(9 -,I (?42* / , (@ -+() +(4(2* 4G 5-+4??. -/ ,T * / ,(S-J* / (4(6(I * (?2 S24T +(0 2(G,(5(>-5+ (c I 4,(* G* (-+(5-+4??. -/ ,-/ S(-+(,I 4,(-(0(3.) _2* (>-5 5-5/ _(+,42,(4(?2 S24T (G>* (M+(6(,[(,* * (M+(6(2(+. 0(M+(6(I * 23(3.) / S(,I * 3(42* (?2 I -M,* 5(02 T (?(43-/ S(4+ ,I * 2* (42* (/ . (. ,I * 2(. 00* 2/ S+ (@ * 2* (-+(4(5* 0/ -,* (S4?(-/ (+* 2J-H*	"E,E/<$; (K:% (FN

$<$	Y 5. . 2(4H-J-,-* +(0 2(3.) / S(H -G2* / (4/ 5(?43S2) / 5(* \ ) -?T * / ,(0 2(3.) / S(H -G2* / (-+(/ * * 5* 5 (Y(5. / d 0* * G,(-+(+40* (,. (G,(T 3(&(3* 42(. G(?43(. / (* \ ) -?T * / ,(5* +-S/ * 5(0 2(" G$%(3* 42(. G+[(M) ,(,I * 2* (-+/ d T) H (H . -H* (42) / 5(I * 2*	" E, E%<$; (K:<$(FN
$<%	@* (455-,-. / (. 0(4(+?4+I (?45(/ * 42(7-2* T * / _+(?42>(9 4+(?2* J-.) +G(5-+H) ++* 5(0(,I 4,(9 .) G(M* (S2* 4,	" E, E%<$; (%% (FN
$<&	74T -G* +[(,. 55G2+[(4/ 5(H -G2* / (42* (-/ (5-2* (/ * * 5(. 0(T . 2* (,. (5. (I * 2* (-/ (6 * 7 . 2* +, (74T -G* +(I 4J* (,. H / ,-/) 4G(,24J* G,) ,+-5* (. 0(6 * 7 . 2* +,(0 2(* / ,* 24-/ T * / ,[(9 I -H (+I .) G(/ . ,(M* (/ * H* ++423 (Y(9 .) G +,2 / SG() 2S* (H / +-5* 24,-. / (. 0(4(H T T) / -,3(?. . G(>-55-* (?. . G(T . 2* (+?4+I (?45+[(4/ 5(/ * 9 (?42>+	" E, E%<$; ($$:" &(1 N
$<"	N43M* (-,(-+(`) +,(M* H4) +* (. 0(+) T T * 2(M) ,(9 .) G(I 4J* (G* 5(,. (+* * (T . 2* (H4++* +(0 2(>-5+(M* ,9 * * / (&0 9 4+(. / (4(9 4-,(G-,(0 2(=4,) 2543(T . 2* -/ S(M4+>* ,M4G/ (+?2/ S(4/ 5(/ . 9 (,I * 3(I 4J* (/ . ,I -/ S(G* (,I 4, . / G(9 .) G(I 4J* (G* (,. (+* * (T . 2* (* J* / -/ S(* J* / ,+(4/ 5(H4++* +(,I 4,(5-5/ d(H / 0G-(9 -,I (+9 -T (G++. / + . 2(I 4J* (T) G?G(?I 4+* +(G* (+9 -T (G++. / + (c * (9 . 2>(5) 2/ S(,I * (543 (@23-/ S(,. (S* ,(T 3(&(3* 42(. G(,. ,23(/ * 9 (,I -/ S+	" E, E%<$; (:" $(FN
$<K	D* * 5(T . 2* (H T T) / -,3(* J* / ,+(0 2(3.) / S* 2(>-5+ (c .) G(GJ* (T . 2* (. ?,-. / +(0 2(+9 -T T -/ S(4/ 5 G++. / +	" E E%<$; (:" $(FN
$<	@* 2* (-+(4(G,(. 0(5* J* G?T * / ,(. 0(?4J* 5(,24-G(4/ 5(?43S2) / 5+(. / (,I * (9 * +,(+-5* (. 0(N 4-/ (=,2* * ,(M) , 42* 4+(. / (,I * (* 4+,(+-5* (. 0(N 4-/ (+,2* * ,(5. / _,(I 4J* (+-5* 9 4G+[(5. / _,(I 4J* (?) MG+(?43S2) / 5+[(5. / _, I 4J* (* 4+3(4H-H* ++(,. (4/ 3(. 0(,I * (?4J* 5(,24-G[(* ,H(Y(+* * T +(6 * 0 2* +,(-+(H4,* 2/ S(,. (H* 24-/ (42* 4+(. 0 ,. 9 / E* 9 * 2(5* J* G?T * / ,+(9 I -G(. ,I * 2(42* 4+(42* (S* ,,-/ S(/ . (M* / * 0,+E4T * / -,-* +	" E E%<$; (:% (FN
$<	Y(9 -+I (,I * 2* (9 4+(T . 2* (,. (5. (0 2(?2* O* * / +(4/ 5(,* * / + (F42>+(4/ 5(* \ ) -?T * / ,(42* (,. . (3.) / S(0 2(,I * T Y(9 .) G(G>* (T . 2* (+40* (?4H* +(0 2(>-5+(,. (M* (4H-J*	" E E%<$; (:%< (FN
$<;	D* * 5(T . 2* (+?4H* (0 2(2* H2* 4,-. / (?2 S24T +(/ . ,(H T ?* ,-/ S(9 -,I (+H . . G4S* 5(H -G2* / (40(* 2(9 . 2>(-/ (4 S3T (,3?* (4,T . +?I * 2*	" E E%<$; (:%<(FN
$$<	N . 2* (?2 S24T +(+I .) G(M* (. 0(* 2* 5(,. (4++-+,* 5(G-/ S(2* +-5* / ,+	" E E%<$; (" :" ! (FN
$$$	c 4+(G. >-/ S(0 2(9 425(,. (?I 4+* (%. 0(,I * (02* T 4/ d+(?42> (Y(S) * ++(Y(5-5/ d(2* 4G+a* (,I * 2* (9 4+(S. -/ S(,. (M* 4/ (-/ ,* 2T -++-. / (M* ,9 * * / (,I * (,9 . (?I 4+* + (6 -+4??. -/ ,* 5	" E E%<$; (! :%K(FN
$$%	D. ,(4(G,(. 0(G42/ -/ S(. ??. 2,) / -,-* + (n) +,(S. -/ S(.) ,(. / (,I * (,24-G(-+/ _,(* / .) SI (A G* 2(?* . ?G(4+(9 * G(4+ 3.) / S* 2(/ * * 5(* / 2+I T * / ,(,. (>* * ?(,I * T (-/ ,* 2* +,* 5	" E E%<$; (%" K(FN
$$&	N . 2* (M4,I 2 . T +(9 -,I -/ (5-+,4/ H* (,. (0* G+ (=9 -T T -/ S(G++. / +	" E E%<$; ($<:$&(1 N
$$!	@* 2* (-+(4(I) S* (/ * * 5(0 2(T . 2* (,* / / -+(H) 2,+	" E E%<$; (; :<" (FN
$$"	N . 2* (5-J* 2+* (42* 4+(42* (/ * * 5* 5(0 2(V=(4S* 5(H -G2* / (=>4,* (M 425(?42>(T -SI ,(M* (4(S. . 5(455-,-. /	" E E%<$; (; :<<(FN
$$K	c * (/ * * 5(4(H T T) / -,3(?. . GW .) SI (9 -,I (,I * (+?4+I (?45+ (N 3(>-5+(/ * J* 2(G>* 5(,I * (+?4+I (?45+ M* H4) +* (,I * 3(42* (,. . (H G (@* 2* (/ * * 5+(,. (M* (+. T * ,I -/ S(,. (5. (-/ (,I * (+) T T * 2(0 2(1 BB(4S* +(. 0(>-5+ 4/ 5(45) G+(4/ 5(4(?. . G9 .) G(4GG9 (0 2(,I 4,	" E E%<$; (:! " (FN
$$	C.) (S. ,(25(. 0(9 2 / S(+,) 0(4/ 5(I 4J* (M) -G(9 2 / S(+,) 0(4,(02* T * / +(?42> (D* * 5(M* ,,* 2(?43S2) / 5+(0 2 . G* 2(>-5+	" E E%<$; (K:" $(FN
$$	N . 2* (400 254MG(=* / -. 2(G-/ S(/ * * 5* 5	" E E%<$; (" :% (FN
$$;	c * (/ * * 5(4(?. . G . ,(4(+?4+I (?45 (@* / +(/ * * 5(4(?. . G . ,(4(+?4+I (?45 (1 5) G+(4/ 5(+* / -. 2+(H4/) +* (4G.	" E E%<$; (" :$ (FN
$%<	D. ,(* / .) SI (?2 S24T +(0 2(>-5+ (D. (,* / / -+(,I -+(+) T T * 2(N . 2* (+?. 2,+(4/ 5(400 254MG(4H,-J-,-* + / * * 5* 5	" E E%<$; (! :&! (FN
$%%	1(?. . G4/ 5(. ,I * 2(4H,-J-,-* +(0 2($&G$ (42* (/ * * 5* 5	" E E%<$; (%<&(FN
$%%	D. ,I -/ S(0 2(,* * / 4S* 2+(,. (5. (F. . G5-5/ . ,(M* H T * (4(2* 4G3[(. / G(+?4+I (?45(-+(-/ (c -/ 5+. 2(4/ 5(-+ S* 42* 5(,. 9 . 25+(3.) / S* 2(>-5+ (WJ* / ,+(4,(7 . 2* T 4/ _+(?42>(-+(0 2(+* / -. 2+(. 2(04T -G* +(9 -,I (3.) / S(>-5+ @4T () ?(9 -,I (,I * (+H . . G-(4/ 5(0/ 5(.) 2(9 I 4,(>-5+(9 4/ , (1 +(+. . / (4+(.) 2(>-5+(H) G(52J* [(,I * 3(G0 5* 0 2* +,(0 2(* / ,* 24-/ T * / , (1 G. (,I * (5. S(?42>(-+(-/ (4(I . 22MG(42* 4 (c * (G-J* (-/ (4(+T 4G. 9 / [(9 * +I .) G(/ _,(I 4J* (,. (52J* (,. (,I * (5. S(?42> (Y(-+(4G. (4(I . 22MG(T * ++(0 2(4G. 0(+?2/ S(4/ 5(02+,(I 4G(. 0 +) T T * 2(c * _J* (S-J* / () ?(. / (-,	" E E%<$; ($:& (FN

$%&	Y(2* 4GB(0* * G,l 4,(6 * 0 2* +,(+l .) G(G. >(-/ ,. (4(X* H(Q* / ,* 2(9 l * 2* (04T -G* +[(H) G(9 . 2>(.) ,[(l 4J* -/ 5. . 2(S3T (4H-H* ++[(T 43M* (4(?. . G(+,43(4H-J* (3* 42(2) / 5 (Q) 22* / ,G(/ . (. ?* / (S3T (-/ (,. 9 / (M* H4) +* +H . . G(9 .) G(/ * * 5(,. (?43(`4/ -,. 2(c * (H ) G(l 4J* (4(04H-G3(G-* (B. 5-(9 l -H (H ) G(* J* / (H2* 4,* (`. M+	" E E%<$; ($:<K(FN
$%	c * (/ * * 5(4(H T T) / -,3(H* / ,* 2(F* 2 4?+(+-T -G42(,. (,l * (B. 5-(. / * (e-5+(/ * * 5(4(?G4H* (,. (?43(-/ 5. . 2 M4+>* ,M4-G(1 5) G+(/ * * 5(4(?G4H* (9 -,l (4(,24H-H>(,. (9 4G3(-/ 5. . 2+(. 2(T 43M* (* ^* 2+H+* (N 43M* (2 . T +(,l 4, H) G(M* (2* / ,* 5(.) ,(0 2(T * * ,-/ S+	" E E%<$; ($%&! (FN
$%'	D. ,(S2* 4,(H T T) / -H4,-. / (. / (9 l 4,(6 * 7. 2* +,(. 0(* 2+ (D* 9 (,. (,. 9 / (4/ 5(l 4J* (/ . (-5* 4(-0(+. T * (. 0(,l * +* ,l -/ S+(* ^-+, (c -,l -/ (02+,(%(T . / ,l +(. 0(GJ-/ S(l * 2* (02* GH4,-. / (02 T (Q1 0(-,(5. * +(/ . ,(4?7* 42(,l 4, 6 * 7. 2* +,(. 0(* 2+(T) H (. 0(4/ 3,l -/ S(.) ,+-5* (. 0(GH4,-. / (HG+* (,. (N 45-+. / (0 2(9 . 2>	" E E%<$; ($%&$(FN
$%K	Q. T T) / -,3(?. . G(9 .) G(+* 2J-H* (. G* 2(45. G+H* / ,(S2) ?+(9 * G(9/ (,l * (+) T T * 2(T . / ,l + (F-H>G(M4-G H) 2,+(9 .) G(M* (4/ (455* 5(M /) +(0 2(. G* 2(4S* (S2) ?+	" E E%<$; ($$:" " (1 N
$%	FG/ ,3(. 0(?42>+(4/ 5(+?G4+l (?45+(0 2(3.) / S(H -G52* / H) G() +* (-/ 5. . 2(M4+>* ,M4-G(0 2(. G* 2(H -G52* / 4/ 5(4/ (.) ,5. . 2(?. . G(0 2(+) T T * 2() +*	" E E%<$; ($$:%$(1 N
$%	Y(9 .) G(M* (S2* 4,(,. (l 4J* (?2 S24T T -/ S(0 2(4T -G* +(,l 4,(9 . 2>(0) G(-T * (9 -,l (3.) / S+,* 2+(-/ (+H . . G(Y -+(l 425(,. (S* ,(,. (?2 S24T T -/ S(4,($<:<<(4T (4/ 5(! :<<	" E E%<$; ($$:%<(1 N
$%	c l 4,+(9 2 / S(9 -,l (,l -+(,. 9 / 8ff(=) 22) / 5-/ S(H T T) / -,-* +(l 4J* (M ,l (?) MG+(+9 -T T -/ S(?. . G+(4/ 5 +>4,* ?42>+[(4J4-G4M*(0 2(4G2* +-5* / ,+ (@* 2* _+(/ . ,l -/ S(,. (5. (4/ 5(/ . (?G4H* (,. (S4,l * 2(-/ (,l * (+) T T * 2 0 2(>-5+($<G3 (-0(,l * 3(42* / _(-/ J. G* 5(-/ (4(,* 4T (+?. 2(. 2(H4T ? (D. ,(* J* 23(>-5(?G43+(4/ (. 2S4/ -a* 5 +?. 2[(M) ,(T . +,(>-5+(GJ* (,. (+9 -T (@* (V=(?. . G+(.) ,54,* 5(4/ 5(02* * (+9 -T (-+(J-2) 4G3(/ . / O^-+,* / , @* (?2* J-.) +(+>4,* ?42>(/ * 42(,l * (V=(9 4+(?. . 23(5* +-S/ * 5(4/ 5(/ . ,() +* 5(4+(4(2* +) G,(A ,l * 2 H T T) / -,-* +(4H) 4G3(?) ,(l .) Sl ,(-/ ,. (,l * -2(+>4,* ?42>+(4/ 5(>-5+(,24J* G02 T (H T T) / -,3(,. H T T) / -,3(,. (J-+-,(,l * T (-0(,l * 3(H4/ (S* ,(4(25* (,l * 2* (e-5+(. 0(4G4S* +(4/ 5(M ,l (S* / 5* 2+() ,-Ga* (?. . G+ 4/ 5(+>4,* ?42>+ (6 * 7. 2* +,(M) G5+(G,G(>-5+(+?G4+l (?45+(4/ 5(?G43S2) / 5+[(4/ 5(/ . 9 (,l -+(25-H) G) +[. J* 25. / * (+. 0(M4-G(H T ?.) / 5(gT 4-/ G3(0 2(52) / >(45) G(+. 0(M4-G(E(M) ,(45. G+H* / ,+(4/ 5(,* * / +(9 l . (42* / _ . / (,* 4T +(42* (G0(,. (,l * -2(. 9 / (5* J-H* +(3* 42(2) / 5 (A) 2(H T T) / -,3(-+(+?249 G S[(+. (,. (S* ,(,. (4(0* G5 . 2(,l * (L N] (,24H>[(>-5+(/ * * 5(4(25* (02 T (,l * -2(?42* / ,+ (V. 9 (4M) ,(4(H* / ,24G?. . G4/ 5(+>4,* ?42> ,l 4,_+(* 4+3(0 2(>-5+(,. (M>* (. 2(9 4G3(,. 8(Y_+(. J* 2>-G(, / (,l -/ S+(0 2(G,G(>-5+(4/ 5(/ . ,(T) H (4,(4G(0 2 . G5* 2(>-5+ (Y_+(* T M4224+-/ S(4/ 5(T 4>* +(T * (2* S2* ,(G-/ S(l * 2*	" E E%<$; (; :<; (1 N
$&<	Q. T T) / -,3(H* / ,* 2H42* 4(0 2(,* * / +(,. (S. (,. (40* 2(+H . . G	" E E%<$; (:% (1 N
$&$	F. . G	" E E%<$; ($$:<%(FN
$&%	c .) G5(G>* (,. (+* * (T . 2* (9 4G3-/ SE2) / / -/ S(. ??. 2) / -,-* +(0 2(4G(4S* +[(T 43M* (+. T * ?G4H* (-/ +-5* (0 2(M45 9 * 4,l * 2(4/ 5(. ?* / -/ S() ?(,l * (l -Sl (+H . . G(,24H>(9 l * / (/ . ,(-/ () +*	" EKE%<$; ($$:<%(FN
$&&	@* 2* (42* / d(T 4/ 3(4H-J-,-* +(0 2(,* * / 4S* 2+	" EKE%<$; (; :% (FN
$&!	c * (/ * * 5(4(+?. 2+(H T ?G^(4/ 5(4(H T T) / -,3(?. . G(c * (/ * * 5(+. T * ,l -/ S(T . 2* (0 2(H -G52* / (4S* +(" O $ (,. (5. (. ,l * 2(,l 4/ (J-5* . (S4T * + (n) +,(4M) ,(* J* 23(H T T) / -,3(42) / 5() +(l 4+(4(H T T) / -,3(?. . G	" EKE%<$; (; :$$(FN
$&"	N. 2* (M4+* M4-G(0* G5+(9 .) G5(l * G(,l * (3.) ,l	" EKE%<$; (; :<%(FN
$&K	D* * 5(?-H>GM4-G(H) 2,+(4/ 5(2* +,2 . T +E?. 24G7. ,,-* +(4,(T . 2* (?42>+	" EKE%<$; (:% (FN
$&	c .) G5(G>* (,. (+* * (0,/ * ++(HG4++* +(. 2(4H-J-,-* +(0 2(+* / -. 2+	" EKE%<$; (:$&(FN
$&	N. 2* (.) ,5. . 2(* J* / ,+() ,-Ga-/ S(,l * (?42>+	" EKE%<$; (:% (FN
$&;	@* 2* _+(/ . ,l -/ S(0 2(4/ 3(4S* (S2) ?(,. (5. (42) / 5(,l -+(,. 9 /	" EKE%<$; (K! (FN
$! <	@* 2* (-+(/ . ,(4G,(. 0(,l -/ S+(0 2(-/ 04/ ,+E. 55G2+(,. (5. (42) / 5(.) ,+-5* (4,(?42>+	" EKE%<$; (" :" <(FN
$! $	@* 2* (-+(/ . (2 . T (4,(02* T 4/ +(?42>(+-/ H* (3.) (2* 5-5(,l * (?42> (C.) () +* 5(,. (l 4J* (4(S. . 5(4T .) / ,(. 0 * \ ) -?T * / ,(0 2(>-5+(,. (?G43(. / (/ . 9 (3.) (?) ,(-/ (4(G,G(?G43(S2) / 5(4/ 5(,l * 2* (-+(') +,(/ . (2 . T (0 2(,l * T ,. (2) / (@4,(9 4+(4(,* 22M5(5* H+-. / (. / (3.) 2(?42, (D. 9 (3.) (l 4J* (4(l) S* (. ?* / (42* 4(9 l * 2* (,l * (?G43 S2) / 5() +* 5(,. (M* (,l 4,(-+/ _(M* -/ S() +* 5 (D. (* \ ) -?T * / ,(0 2(>-5+(,l 4,(42* (4(G,G(MSS* 2() / G>* (,l * (. G5 * \ ) -?T * / , (A/ G3($+?G4+l (?45(-/ (4(+/ . . ,3(?42>(9 l * 2* (?* . ?G(+,42* (4/ 5(T 4>* (H T T * / ,+(M* H4) +* 3.) (42* (/ . ,(02 T (,l * -2(/ * -Sl M 2 . . 5 (D. (+>4,* (?42>(,l * 2* (-+(4M+. G(,* G3(/ . (2* 4+. / (9 * (+l .) G5(l 4J* ,. (52-J* (,. (+) / (?24-2* (. 2(9 4) / 4>* * (,. () +* (,l * 2* + (L 4+>* ,M4-G(H) 2,+(+,-G(5. (/ . ,(l 4J* (4/ 5 M4H>M 425+(4/ 5(2-T +	" EKE%<$; (&:%&(FN
$! %	D* * 5(T . 2* (. ?,-. / +(0 2(45) G(?2 S24T T -/ S (B. J* (,l 4,(9 * (S* ,(,. () +* (,l * (+H . . G(0 2(02* * [(M) ,(-0 +H . . G(42* (HG+* 5(. 2(04H-G-* +(-/ () +* [(,l * / (,l * (45) G(?2 S24T +(S* ,(?) +l * 5	" EKE%<$; (%< (FN
$! &	74H-G-* +(42* (H* / ,* 2* 5(. / (04T -G* +[(3.) / S(H -G52* / [45. G+H* / ,+[(3.) / S(45) G+ (D. ,l -/ S(-+(. 0(* 2* 5 0 2(=* / -. 2+(/ . 2(42* (04H-G-* +(-454?,4M5(. 2(45* \ ) 4,* (0 2(,l * -2() +*	" EKE%<$; (%<&(FN

$! !	c * (/ * * 5(T . 2* (?4343S2) / 5+ (@* * 2* (42* (+* J* 24G I 4,(42* (.) ,(. 0(54,* (. 2(/ * -SI M 2. . 5+(G* +) / / 3M2 . >(,I 4,(I 4J* (,I * (+?4H* (M) ,(/ . (?4343(+,2) H) 2* (W* / (4(+T 4G / * (9 .) G(M* (4(S2* 4,(9 43(,. S* ,(.) ,(4/ 5(T * * ,(. ,I * 2(>-5+(4/ 5(* / `. 3(,I * (.) ,5. . 2+ (@* (02* T 4/ d+(?42>(+* ,() ?(-+(9 . / 5* 20) G	" EKP%<$; ($:" " (FN
$! "	D* * 5(?-H>G M4G H) 2,+	" EKP%<$; ($:! K(FN
$! K	Y(0* * G,I * 2* (-+(4/ (* T ?I 4+-+(. / (04T -G3(4H,-J-,-* +(4G2* 453 (@* * 2* (-+(/ . ,(* / .) SI (. 0(4(?2. 2-,3(?G4H* 5(. / 4H,-J-,-* +(0 2(/ . / G04T -G3(45) G+	" EKP%<$; ($%! " (FN
$!	$&(,. ($ [(/ . ,I -/ S(,. (5. (0 2(,I -+(4S* (24/ S* (9 I 4,(+>4,* (?42>8(A / * (-H* (2/ >[(4(`. >* (L 4+>* ,M4G H) 2, 9 -,I (/ . (M4+>* ,+[(04-G	" EKP%<$; ($%%, (FN
$!	Y5(G>* (,. (+* * (T . 2* (?2 S24T +(. 00 2* 5(5-2* H,* 5(,. 9 425(3.) / S* 2(>-5+ (@* * 2* (42* (4(G,(. 0(4H,-J-,-* +(0 2 " b(3. (M) ,(,I * (3.) / S* 2(S2) ?(-+(G4H>-/ S(. ??. 2,) / -,-* + (1 (+?G4+I (?45(4/ 5(4/ * ^?4/ +-. / ET ?2 J* T * / ,+(,. (6 4I G F42>(9 .) G(M* (S2* 4,f(1 (,24-G,I 4,(9 .) G(I * G(* 4+,(6 * 0 2* +,(,. (S* , * 4+-G(,. (. ,I * 2(,24-G+3+,* T +(9 .) G(4G. (M* (0) / E * G30) G	" EKP%<$; ($%$<(FN
$! ;	+40* 2(4H-H* ++(4/ 5(2* H2* 4,-. / 4G(4H,-J-,-* +(4G/ S(QR(N 4-/ (=,(H 225. 2(	" EKP%<$; ($%$<(FN
$" <	i Y(5. / _(>/ . 9 (9 I 4,(,. (+43(,I 4,(,I * (H T ?4/ 3(I 4+(4/ 5(. 2 S. J* 2* T * / ,ffffffffffffffffffffffffffffffffffffffffffffffff888888888888888888888888i	! EPKEP%<$; (! :" %(FN
$" $	=?G+I (?45(/ * * 5* 5(4,(7-2* T 4/ +(F42> (F-H>G(M4G H) 2,(4,(7-2* T 4/ +(F42> (N . 2* (?G43(S2) / 5(4, 7-2* T 4/ +(F42> (7-/ -+I (?4J-/ S(,24-G4,(c * +,* 2* (S2* * / (F42>(,. (T 4>* (-,(* 4+-* 2(0 2(+* / -. 2+(4/ 5(5-+4MG5 2* +-5* / ,+(,. (9 4G(4/ 5() +* (-,	! EPKEP%<$; (:%K(1 N

' " (') * +,-. / (" (. 0(%$Y (3.) 2(. ?-/ -. / [(9 I 4,(42* (,I * (M* +,(?42> 04HG,-* +E4T * / -,-* +(H) 22* / ,G3(?2 J-5* 5(-/ (6 * 7 . 2* +,(0 2(,I * (0 GG9 -/ S S2) ?+8

1/ +9 * 2* 5:(%$&(=>-??* 5:(K

! "# $%&' (%"	#") ' "	
74T -G +	" ! "#	$ %
@ 55G2+(<O (3* 42+	! ; #	$ $
QI -G2* / (" G$%(3* 42+	; &#	$KK
15. G+H* / ,+($&G$ (3* 42+	" %%#	$%
15) G+($; O ! (3* 42+	K; <$#	$!
=* / -. 2+(" " b(3* 42+(	K$; #	$&%

5	4 / (+("	. , "
$	c * +,* 2/ (S2* * /	" E% E<$; (; :! &(FN
%	=9 -T T -/ S(?. . G0 2(4G	" E% E<$; (; :<K(FN
&	7-2* T * / _+(F42>	" E% E<$; (; :! $(1 N
!	FG/ ,3(0 2(04T -G +(9 -,I (3.) / S(>-5+	" E% E<$; ($$:%&(1 N
"	7-2* T 4/ d+(F42>	" E% E<$; (; :& (1 N
K	7-2* T 4/ d+(?42>	" E% E<$; (K:! %(FN
	7-2* T 4/ d+(F42>	" E% E<$; (" :$<(FN
	7-2* T 4/ _+(F42>	" E% E<$; ($$:<%(FN
;	@24-G(♥ ♥	" E% E<$; (! :<! (FN
$<	7-2* T 4/ d+(F42>[(9 4G-/ SEM>-/ S(,24-G	" E% E<$; (%! &(FN
$$	P??* 2(34I 424(2J* 2(,24-G	" E% E<$; ($:$$(FN
$%	B-M2423	" E% E<$; (; :$" (1 N
$&	7-2* T 4/ _+[(Q. / +* 2J4/ H3[(@* 2/ * 3(Z(c * +,* 2/ (U2* * / :(+?G+I (?45[(?-H/ -H(42* 4[(?G3S2) / 5[2* +,2 . T +	" E% E<$; (" :! (1 N
$!	7-2* T 4/ d+(F42>	" E&E<$; (; :! <(1 N
$"	@* (,24-G(4/ 5(?42>(M3(9 * +,* 2/ (S2* * / (?42>	" E%E<$; (:&" (FN
$K	7-2* T 4/ _+(F42>(?G3S2) / 5	" E%E<$; ($<:$&(1 N
$	=?G+I (?45[(02* T 4/ d+(F42>	" E$E<$; (%! ! (FN
$	Q. / +* 2J4/ H3[(02* T * / d+[(H2455G(I -GG	" E$E<$; (; :% (1 N
$;	D* * 5+(-T ?2 J* T * / ,	" E<E<$; (! :&" (FN
%<	F42>+(4/ 5(?4J* 5(,24-G	" E<E<$; ($$:<; (1 N
%$	Q. / +* 2J4/ H3	" E<E<$; ($<:$! (1 N
%%	Q. T T) / -,3(Q* / ,* 2(B-M2423[(7-2* T 4/ +(?42>(4H,J-,-* +	" E<E<$; (; :" ! (1 N
%&	?42>+(0M>* (,24-G	" E<E<$; (; :$" (1 N
%'	=?G+I (?45[(?. . G	" E$; E<$; ($$:! ! (FN

%'	F@43S2) / 5+	" E$; E/<$; ($<:! %(FN
%K	P/ +) 2*	" E$; E/<$; ($<:%' (FN
%	F@43S2) / 5(* \ ) -?T * / ,	" E$; E/<$; ($<:<K(FN
%	7-2* T 4/ d+(F42>[(@M2423[(+?@+I (?45[(* J* / ,+	" E$; E/<$; (; :" ; (FN
%;	F@43S2) / 5(4/ 5(,24-G	" E$; E/<$; (; :$; (FN
&<	7-2* T 4/ d+(F42>	" E$; E/<$; (:" (FN
&$	7-2* T 4/ +(?42>	" E$; E/<$; (:" (FN
&%	c * +,* 2/ (S2* * /	" E$; E/<$; (:&<(FN
&&	7-2* T 4/ d+	" E$; E/<$; (:&<(FN
&!	F42>+[(c 4@-/ S(@24-G	" E$; E/<$; (:% (FN
&"	7-2* T 4/ d+	" E$; E/<$; (:<! (FN
&K	Q245@(V-G	" E$; E/<$; (:" %(FN
&	7-2* T 4/ d+(?42>	" E$; E/<$; (:" <(FN
&	7-2* T 4/ d+	" E$; E/<$; (:! ! (FN
&;	Q. / +* 2J4/ H3	" E$; E/<$; (:&K(FN
! <	7-2* T 4/	" E$; E/<$; (:&" (FN
! $	=I * G* 2+(4/ 5(2* +,2 . T +	" E$; E/<$; (:&! (FN
! %	6 * 0 2* +,(?) M@+(@M2423(4/ 5(02* T 4/ d+(?42>	" E$; E/<$; (:% (FN
! &	Q. / +* 2J4/ H3	" E$; E/<$; (:%' (FN
! !	=?@+I (?42>+	" E$; E/<$; (:%&(FN
! "	F42>(=I * G* 2+(4/ 5(B-/ 5* (7-* @5+	" E$; E/<$; (:%&(FN
! K	@24-GM 2,3(?42>	" E$; E/<$; (:%<(FN
!	c * (GJ* (,I * (c * +,* 2/ (U2* * / (,24-G[(P??* 2(C4I 424(@24-G(4/ 5(/ * 9 (7-2* T 4/ +(F42>	" E$; E/<$; (:$ (FN
!	Q. / +* 2J4/ H3	" E$; E/<$; (:$ (FN
! ;	D. / *	" E$; E/<$; (:$! (FN
" <	7-2* T 4/ +	" E$; E/<$; (:$&(FN
" $	F@43S2) / 5+[(?-H/ -H(+?4H* +	" E$; E/<$; (:$$(FN
" %	c * +,* 2/ (S2* * /	" E$; E/<$; (:<; (FN
" &	6 . 9 / ,. 9 /	" E$; E/<$; (" :" %(FN
" !	?@43S2) / 5+(4/ 5(+?@+I (?45+	" E$; E/<$; (%% (FN
" "	7-2* T 4/ +	" E$; E/<$; (K:! K(1N
" K	F@43S2) / 5+[(T . J-* +(-/ (?42>[	" E$; E/<$; (K:% (1N
"	7-2* T 4/ +[(4/ 3	" E$ E/<$; (:$ (FN
"	c * +,* 2/ (U2* * / (12* 4(F42>[(7-2* T 4/ d+(F42>+	" E$ E/<$; (:" %(1N
";	=?@+I (?45+[(,24-G[(?-H/ -H(42* 4+	" E$ E/<$; (K:! %(1N
K<	@24-G[(+?@+I (?45[(S425* / +[(4,I @,-H(0* @5+	" E$ E/<$; (! :<&(1N
K$	7-2* T 4/ d+(I 4+(-,(4@G	" E$ E/<$; (:&! (FN
K%	H245@(I -G	" E$KE/<$; (; :$%(FN
K&	L->* (?4,I +	" E$KE/<$; (! :" (FN
K!	c 4@-/ S(?4,I +	" E$KE/<$; (! :<$(FN
K"	F42>+	" E$KE/<$; ($:&&(FN

KK	c * +,* 2/ (U2* * /	" E$KE%<$; ($:$ (FN
K	7-2* T * / d+(?42>(4/ 5(/ 4,) 2* (,24-G	" E$KE%<$; ($:$" (FN
K	F42>+Q2* H	" E$" E%<$; (; :$K(FN
K;	=?G+I (?45+(4/ 5(?G3S2) / 5+	" E$" E%<$; (%<&(FN
<	F42>+E,24-G	" E$! E%<$; (! :% (FN
$	FG3S2) / 5+	" E$! E%<$; (&:! (FN
%	C4I 424(,24-G	" E$! E%<$; ($%! ; (FN
&	=?G+I (?45+	" E$&E%<$; (:&" (1N
!	1GG	" E$&E%<$; (:$&(1N
"	,24-G	" E$%E%<$; (:! (FN
K	7-2* T 4/ d+(F42>	" E$%E%<$; (%" %(FN
	FG3S2) / 5+	" E$%E%<$; ($:&" (FN
	FG3S2) / 5+(4/ 5(?4,I +	" E$%E%<$; ($%<&(FN
;	7-2* T 4/ d+(?42>(4/ 5(+?G+I (?45	" E$%E%<$; ($<:%$(1N
<	7-2* T 4/ +(?42>	" E$%E%<$; (" :" $(1N
$	7-2* T 4/ +	" E$$E%<$; (; :&%(FN
%	F42>(WJ* / ,+EFG3S2) / 5+	" E$$E%<$; (:! $(FN
&	7-2* T 4/ d+(F42>	" E$$E%<$; (:" <(FN
!	7-2* T 4/ +	" E$$E%<$; ($:&$(FN
"	7-2* T 4/ _+(?42>	" E$$E%<$; ($%<; (FN
K	F42>+	" E$$E%<$; ($%<$(FN
	7-2* T 4/ (?42>	" E$$E%<$; ($<:$K(1N
	7-2* T 4/ d+(F42>	" E$$E%<$; ($<:<%(1N
;	=?G+I (?45[(?G3S2) / 5(4,(7F[(M>* (,24-G	" E$$E%<$; (; :% (1N
; <	=?G+I (?45(4/ 5(02* T 4/ _+(6 * 7 . 2* +,	" E$$E%<$; (; :% (1N
; $	Q. J* 2* 5(42* 4(4,(7-2* T 4/ _+(?42>	" E$$E%<$; (; :% (1N
; %	F42>+	" E$$E%<$; (; :%K(1N
; &	7-2* T 4/ (?42>	" E$$E%<$; (:" %(1N
; !	F42>+	" E$$E%<$; (:" <(1N
; "	7-2* T 4/ d+(F42>	" E$$E%<$; (:&&(1N
; K	Q. / +* 2J4/ H3	" E$$E%<$; (:$K(1N
;	F42>(-/ (=4J4/ / 4I (/ * -SI M 2 . . 5(9 -,I (?G3S2) / 5[(. ?* / (+?4H* [(M4,I 2 . T (4/ 5(M4+>* ,M4GE* / / -+	" E$$E%<$; (:! ! (1N
;	N . J-* +(4/ 5(4H,J-,-* +(-/ (02* T 4/ d+(?42>[(?-H/ -H(42* 4+	" E$$E%<$; (:! <(1N
; ;	F42>+(9 E(T) G?'G(4T * / -,-* +(G>* (7-2* T 4/ _+	" E$$E%<$; (:&; (1N
$<<	c 4G>-/ SEM>-/ S(,24-G	" E$$E%<$; (:&%(1N
$<$	Q2450'G(V-GG	" E$$E%<$; (:% (1N
$<%	7-2* T 4/ d+(?42>	" E$$E%<$; (:<; (1N
$<&	D. / *	" E$<E%<$; (; :" %(FN
$<!	7-2* T 4/ +	" E$<E%<$; (K:& (FN
$<"	7-2* T 4/ d+(c * +,* 2/ (U2* * /	" E$<E%<$; (! :% (FN
$<K	F4J* 5(,24-G(9 I -H (H / / * H,() ?(,. (?G3S2) / 5+(4/ 5(?-H/ -H(42* 4+	" E$<E%<$; (%! &(FN

$<	?@43S2) / 5[(+I * G* 2+	" ES<EP@<$; (%! $(FN
$<	Q. / +* 2J4/ H3(H T T . / +	" ES<EP@<$; ($:<" (FN
$<;	D. / *	" E EP@<$; (:! ! (FN
$$<	F@43S2) / 5+	" E EP@<$; (K:%, (FN
$$$	7-2* T 4/ d+(F42>	" E EP@<$; (K:<$(FN
$$%	C4I 424(2J* 2(,24-G	" E EP@<$; (%" <(FN
$$&	7-2* T * / _+(F42>E5. 9 / ,. 9 / (42* 4	" E EP@<$; (%% (FN
$$!	DADW	" E EP@<$; (%< (FN
$$"	L4/ 5(=I * G	" E EP@<$; ($$:" ! (1N
$$K	1G	" E EP@<$; ($$:& (1N
$$	F2 S24T T -/ S(4/ 5(* J* / ,+	" E EP@<$; (K:! (1N
$$	F42>+	" E EP@<$; (:" %(FN
$$;	7-2* T 4/ +	" E EP@<$; (:&" (FN
$%<	+?4+I (?42>+[(?42>+[(J42-.) +(?2 S24T +	" E EP@<$; (:%$(FN
$%$	@ >* / (Q2* * >(F42>[(@ >* / (Q2* * >(Q. / +* 2J4/ H3[(W5/ 4(4/ 5(WG* 2(c * ,@4/ 5+[(N432(74T -G3(742T (-/ ,I * (74G(=) / 0+I (?. / 5[(7-2* T 4/ d+(F42>[(+?@4+I (?45[(?42>+(-/ (S* / * 24G(M>* (?4,I +[(>424,* [(`) T ? 42) / 5[(+) T T * 2(?2 S24T +[(@M2423[(,I * -2(M4H>3425+	" E EP@<$; (K:<! (FN
$%%	F* 20 2T 4/ H* (42* 4	" E EP@<$; (! :$; (FN
$%&	7-2* T 4/ d+	" E EP@<$; ($%! (FN
$%(	D* 9 (02* T 4/ d+(?42>(+I * G* 2	" E EP@<$; ($<:% (1N
$%'	7-2* T 4/ d+[(=?@4+I (?45(c -/ 5+. 2	" E EP@<$; ($<:$ (1N
$%K	7-2* T 4/ d+(F42>(H T ?G^ (Q. / +* 2J4/ H3(F42>	" E EP@<$; ($<:$" (1N
$%	7-2* T 4/ +(?42>(E* J* / ,+	" E EP@<$; (:&! (1N
$%	7-2* T 4/ +	" E EP@<$; ($%< (1N
$%)	7-2* T 4/ (?42>	" E EP@<$; ($<:&$(FN
$&<	D. ,(+) 2*	" E EP@<$; ($<:<%(FN
$&$	F42>+	" E EP@<$; (; :&! (FN
$&%	7-2* T 4/ _+(?42>	" E EP@<$; (; :<%(FN
$&&	F4J* 5(9 4G>-/ SE@>-/ S(,24-G	" E EP@<$; (:! (FN
$&!	1G@ 0(7-2* T 4/ d+(?42>	" E EP@<$; (:! ! (FN
$&"	7-2* T 4/ +	" E EP@<$; (K:" ; (FN
$&K	U2* 4,(?42>+	" E EP@<$; (" :%K(FN
$&	@24-G	" E EP@<$; (! :&" (FN
$&	c * +,* 2/ (U2* * / (g9 I * / (/ . ,(9 * ,h	" E EP@<$; ($:&; (FN
$&;	F4J* 5(?4,I +	" E EP@<$; ($:$ (FN
$! <	7-2* T 4/ d+(?42>	" E EP@<$; ($:$$(FN
$! $	c 4G>-/ S(,24-G	" E EP@<$; ($$:" ! (1N
$! %	7-2* T 4/ +(?42>	" E EP@<$; ($$:%$(1N
$! &	7-2* T 4/ d+(?42>[(@M2423	" E EP@<$; ($$:$ (1N
$! !	Q. / +* 2J4/ H3[(Q245G(V-G@(7-2* T 4/ _+(F42>[(,24-G	" E EP@<$; ($$:<" (1N
$! "	7-2* T 4/ _+(F42>(4/ 5(W* / ,+	" E EP@<$; ($$:<%(1N

$! K	7-2* T 4/ _+	" E Ê%<$; ($$:<<(1 N
$!	02* T 4/ +(?42>	" E Ê%<$; (; :" K(1 N
$!	P??* 2(C4I 424(@24-G	" E Ê%<$; (:&<(1 N
$! ;	=I * G* 2+(0 2(S4,I * 2/ S+	" E Ê%<$; (" :" (1 N
$" <	7-2* T 4/ d+(F42>	" ÊKÊ%<$; (; :%K(F N
$" $	7-2* T 4/ d+(F42>	" ÊKÊ%<$; (; :$&(F N
$" %	Q. / +* 2J4/ H3	" ÊKÊ%<$; (; :<&(F N
$" &	02* T 4/ (?42>	" ÊKÊ%<$; (:! ! (F N
$" !	F-H/ -H(04HG-* +(4/ 5(,24-G	" ÊKÊ%<$; (:$K(F N
$" "	7-2* T 4/ +	" ÊKÊ%<$; (:% (F N
$" K	@24-G	" ÊKÊ%<$; (:%' (F N
$"	7-2* T 4/ _+	" ÊKÊ%<$; (:%%(F N
$"	D. / *	" ÊKÊ%<$; (K:! (F N
$" ;	B42S* (+I * G* 2+	" ÊKÊ%<$; (&:&<(F N
$K<	7-2* T 4/ +(?42>	" ÊKÊ%<$; (&:%' (F N
K	F42>+(4/ 5(?4,I +(42* (04/ ,4+,-H	" ÊKÊ%<$; (%% (F N
$K%	7-2* T 4/ _+	" ÊKÊ%<$; (%<; (F N
$K&	Q2450G(I -G	" ÊKÊ%<$; (%<" (F N
$K!	1 G	" ÊKÊ%<$; (%<&(F N
$K"	7-2* T 4/ _+	" ÊKÊ%<$; ($:" K(F N
$KK	7-2* T 4/ d+(?42>	" ÊKÊ%<$; ($:" " (F N
$K	Q. / +* 2J4/ H3	" ÊKÊ%<$; ($:! (F N
$K	Q. / +* 2J4/ H3(4/ 5(Q2450G(V-G	" ÊKÊ%<$; ($:! <(F N
$K;	* J* 23,I -/ S(4,(02* T * / +(?42>	" ÊKÊ%<$; ($:$<(F N
$ <	7-2* T 4/ d+(?42>	" ÊKÊ%<$; ($:<! (F N
$ $	Q. / +* 2J4/ H3	" ÊKÊ%<$; ($%" (F N
$ %	7-2* T 4/ d+	" ÊKÊ%<$; ($%! K(F N
$ &	1 G	" ÊKÊ%<$; ($%! K(F N
$!	F42>+(4/ 5(.) ,5. . 2(2* H2* 4,-. / (,24-G	" ÊKÊ%<$; ($%%(F N
$ "	7-2* T 4/ d+(?42>	" ÊKÊ%<$; ($%%$(F N
$ K	7-2* T * / _+(F42>	" ÊKÊ%<$; ($%$" (F N
$	7-2* T 4/ +(?42>	" ÊKÊ%<$; ($%$! (F N
$	7-2* T 4/ d+(F42>	" ÊKÊ%<$; ($%$$(F N
$;	c * +,* 2/ (U2* * /	! Ê% Ê%<$; (; :<%(1 N
$ <	7-2* T 4/ _+(F42>	! Ê%KÊ%<$; (; :&K(1 N
$ $	7-2* T * / _+(?42>(+I * G* 2	! Ê%KÊ%<$; (:% (1 N
$ %	/ * 9 (?@43S2) / 5(4,(7-2* T 4/ _+(F42>	! Ê% Ê%<$; (; :" ! (1 N
5	**, ' . . +" # $;<$6 " #**	**. , "**
$	7-2* T 4/ +(?42>	" Ê% Ê%<$; (; :! &(F N
%	=?@+I (F45+	" Ê% Ê%<$; (; :! $(1 N
&	D. / * (2* 4G	" Ê% Ê%<$; (:" " (F N

!	@ -+(. / * (I 4+(T . 2* (,I 4/ (* / .) SI	" Ø% Ø<$; ($$:%&(1 N
"	7-2* T 4/ d+(F42>	" Ø% Ø<$; (; :& (1 N
K	7-2* T 4/ d+(?42>	" Ø' Ø<$; (K:! %(FN
	7-2* T 4/ d+(F42>[(Q. T T) / -,3(Q* / ,* 2	" Ø' Ø<$; (" :$<(FN
	7-2* T 4/ _+(F42>	" Ø(Ø<$; ($$:<%(FN
;	=?G+I (?45+(b(?G3S2) / 5+	" Ø(Ø<$; (! :<! (FN
$<	F42>+(9 -,I (5* J* G?T * / ,4GB(4??2 ?24,* (* \ ) -?T * / ,	" Ø(Ø<$; (%! &(FN
$$	B-M2423	" Ø(Ø<$; (; :$" (1 N
$%	7-2* T 4/ _+[(Q. / +* 2J4/ HB[(@* 2/ * 3(Z(c * +,* 2/ (U2* * / :(+?G+I (?45[(?-H/ -H(42* 4(?G3S2) / 5(9 -,I 2* +,2 . T +	" Ø(Ø<$; (" :! (1 N
$&	Q245GI -G	" Ø&Ø<$; (; :! <(1 N
$!	=?G+I (?45+	" Ø%Ø<$; (:&" (FN
$"	7-2* T 4/ +(F42>	" Ø%Ø<$; (%&! (FN
$K	FG3S2) / 5+	" Ø%Ø<$; ($<:$&(1 N
$	=?G+I (?45	" Ø$Ø<$; (%! ! (FN
$	Q. / +* 2J4/ HB[(02* T * / d+[(H245GI -G	" Ø$Ø<$; (; :% (1 N
$;	D* * 5+(-T ?2 J* T * / ,	" Ø<Ø<$; (! :&" (FN
%<	F42>+(4/ 5(+?G+I (?45+	" Ø<Ø<$; ($$:<; (1 N
%$	Q. / +* 2J4/ HB	" Ø<Ø<$; ($<:$! (1 N
%%	=?G+I ?45+	" Ø<Ø<$; (; :" ! (1 N
%&	4GI * (?42>+(42* (S2* 4,	" Ø<Ø<$; (; :$" (1 N
%(	W4SG(?. -/ ,	" Ø<Ø<$; ($%" " (1 N
%'	=?G+I (?45[(?. . GI-/ 5. . 2(?G3(+?4H* +	" Ø$; Ø<$; ($$:! ! (FN
%K	FG3S2) / 5+(4?G+I ?45	" Ø$; Ø<$; ($<:! %(FN
%	c -/ 5+. 2(+. H-H* 2(?G3S2) / 5	" Ø$; Ø<$; ($<:%' (FN
%	F42>(+?G+I (?45+	" Ø$; Ø<$; ($<:$&(FN
%;	=?G+I (?45	" Ø$; Ø<$; ($<:<K(FN
&<	7-2* T 4/ d+(F42>[(GM2423[(+?G+I (?4+	" Ø$; Ø<$; (; :" ; (FN
&$	FG3S2) / 5	" Ø$; Ø<$; (; :$; (FN
&%	7-2* T 4/ +	" Ø$; Ø<$; (:" (FN
&&	7-2* T 4/ d+(F42>	" Ø$; Ø<$; (:&<(FN
&!	B-M* 23	" Ø$; Ø<$; (:&<(FN
&"	=?G+I (F45+[(F42>+	" Ø$; Ø<$; (:% (FN
&K	7-2* T 4/ d+	" Ø$; Ø<$; (:<! (FN
&	7-2* T * / _+	" Ø$; Ø<$; (:" %(FN
&	7-2* T 4/ d+	" Ø$; Ø<$; (:! ! (FN
&;	Q. / +* 2J4/ HB	" Ø$; Ø<$; (:&K(FN
! <	F42>(* \ ) -?T * / ,(-+(/ * 9 (4/ 5(-/ (S. . 5(H / 5-,-. /	" Ø$; Ø<$; (:&! (FN
! $	B-M2423(4/ 5(X* H	" Ø$; Ø<$; (:%' (FN
! %	7-2* T 4/ +	" Ø$; Ø<$; (:%' (FN
! &	=?G+I (?42>+	" Ø$; Ø<$; (:%&(FN

! !	V. G/ 5(7-* 5+(?42>	" ; Pe<$; (:%&(FN
! "	B-M 23(?42>	" ; Pe<$; (:%<(FN
! K	/ * 9 (7-2* T 4/ +(F42>(4/ 5(W4SG(F. -/ ,(?G43S2) / 5	" ; Pe<$; (:$ (FN
!	=?G+I (?45	" ; Pe<$; (:$ (FN
!	=?G+I (?45	" ; Pe<$; (:$! (FN
! ;	=?G+I (?45+	" ; Pe<$; (:$&(FN
" <	=?G+I (?45+[(?G43S2) / 5	" ; Pe<$; (:$$(FN
" $	F42>+(4/ 5(+?G+I (?45+	" ; Pe<$; (:$<(FN
" %	7-2* T 4/ +	" ; Pe<$; (:<; (FN
" &	6 . 9 / ,. 9 /	" ; Pe<$; (" :" %(FN
" !	?G43S2) / 5+(4/ 5(+?G+I (?45+	" ; Pe<$; (%% (FN
" "	7-2* T 4/ +	" ; Pe<$; (K:! K(1N
" K	=4T * (4+(4M J*	" ; Pe<$; (K:% (1N
"	1 / 3	" ; Pe<$; (:$ (FN
"	=?G+I (?42>	" ; Pe<$; ($<:$ (1N
" ;	c * +,* 2/ (U2* * / (12* 4(F42>[(7-2* T 4/ d+(F42>+	" ; Pe<$; (:" %(1N
K<	=?G+I (?45[(02* T 4/ d+(?42>(?G43S2) / 5	" ; Pe<$; (K:! %(1N
K$	=?G+I (?45[(,24-G[	" ; Pe<$; (! :<&(1N
K%	7-2* T 4/ _+(F42>(?G43S2) / 5	" ; Pe<$; ($<:! " (FN
K&	N) G;?'G(?42>+(,I 2) SI .) ,(,I * (J-G@S*	" ; Pe<$; (:&! (FN
K!	Q2415'G(I -G@	" ;KPe<$; (; :$%(FN
K"	=?G+I (?45+	" ;KPe<$; (! :" (FN
KK	=?G+I (?45+	" ;KPe<$; (! :<$(FN
K	=?G+I (?45+[(?42>+	" ;KPe<$; ($:&&(FN
K	7-2* T 4/ +	" ;KPe<$; ($:$ (FN
K;	D. / *	" ;KPe<$; ($:$" (FN
<	F42>+	" ;" Pe<$; (; :$K(FN
$	+?G+I (?45+(4/ 5(?G43S2) / 5+	" ;" Pe<$; (%<&(FN
%	F42>+	" ;! Pe<$; (! :% (FN
&	=?G+I (?45[(?G43S2) / 5	" ;! Pe<$; (&:! (FN
!	=?G+I (?45+	" ;! Pe<$; ($%! ; (FN
"	F42>+(4/ 5(+?G+I (?45+	" ;&Pe<$; ($$:<! (FN
K	=?G+I (?45	" ;&Pe<$; (:&" (1N
	7-2* T 4/	" ;&Pe<$; (:$&(1N
	B-,,'G(?42>(. / (+,42(S4a* 2(52J*	" ;%Pe<$; (%" %(FN
;	FG43S2) / 5+	" ;%Pe<$; ($%<&(FN
<	7-2* T 4/ d+(?42>(4/ 5(+?G+I (?45	" ;%Pe<$; ($<:%$(1N
$	FG43S2) 5+	" ;%Pe<$; (" :" $(1N
%	7-2* T 4/ +	" ;$Pe<$; (; :&%(FN
&	FG43S2) / 5E=?G+I (F45	" ;$Pe<$; (:! $(FN
!	FG43S2) / 5+	" ;$Pe<$; (:" <(FN

"	7-2* T 4/ +	" E$P/<$; ($:&$(FN
K	7-2* T 4/ _+(?42>	" E$P/<$; ($%<; (FN
	F42>+	" E$P/<$; ($%<$(FN
	F42>(* \ ) -?T * / ,	" E$P/<$; ($<:&" (1N
;	7-2* T 4/ (?42>	" E$P/<$; ($<:$K(1N
; <	Q2450(V-G	" E$P/<$; ($<:<%(1N
; $	=?G+I (?45	" E$P/<$; (; :% (1N
; %	=4T * (4+(4M J*	" E$P/<$; (; :% (1N
; &	=. T * (2* H(?2 S24T +	" E$P/<$; (; :% (1N
; !	F42>+	" E$P/<$; (; :%K(1N
; "	DE4	" E$P/<$; (:" %(1N
; K	=?G+I (?45	" E$P/<$; (:" <(1N
;	7-2* T 4/ d+(?42>	" E$P/<$; (:&&(1N
;	1(E?42>+	" E$P/<$; (:$K(1N
; ;	7-2* T 4/ d+(F42>[(V. G/ 5(7-* 0[(Q. / +* 2J4/ H3	" E$P/<$; (:! ! (1N
$<<	=?G+I (?450?G3S2) / 5+	" E$P/<$; (:! <(1N
$<$	=?G+I (?45+	" E$P/<$; (:&; (1N
$<%	H / +* 2J4/ H3(+?G+I (?45(4/ 5(?42>	" E$P/<$; (:&%(1N
$<&	Q2450(V-G	" E$P/<$; (:% (1N
$<!	Q2450(I -(E+?G+I (?45	" E$P/<$; (:<; (1N
$<"	=H . . G	" E<P/<$; (; :" %(FN
$<K	F@3S2) / 5+(E. ?* / (+?4H* +(,. (?@3	" E<P/<$; (%! &(FN
$<	?@3S2) / 5+	" E<P/<$; (%! $(FN
$<	Q. / +* 2J4/ H3(H T T . / +(Z(V. G/ 5(0* 0+	" E<P/<$; ($:<" (FN
$<;	F42>(. / (=,42(U4a* 2(6 2	" E P/<$; (:! ! (FN
$$<	7-2* T 4/ d+(F42>	" E P/<$; (K:<$(FN
$$$	7-2* T 4/ d+(F42>	" E P/<$; (%" <(FN
$$%	/ . ,(+) 2*	" E P/<$; (%% (FN
$$&	F42>(. / (=,42(U4a* 2(6 2(-/ (V* 2,4S* (U425* / +(H T T) / -,3	" E P/<$; (%< (FN
$$!	7-2* T 4/ _+(F@3S2) / 5	" E P/<$; ($$:" ! (1N
$$"	B-M* 23(@/ 5(?42>	" E P/<$; ($$:& (1N
$$K	F@3S2) / 5(* \ ) -?T * / ,	" E P/<$; (K:! (1N
$$	F@3S2) / 5	" E P/<$; (" :" " (1N
$$	F42>+	" E P/<$; (:" %(FN
$$;	7-2* T 4/ +	" E P/<$; (:&" (FN
$%<	+?4+I (?42>+[(?42>+[(J42-.) +(?2 S24T +	" E P/<$; (:%$(FN
$%$	@>* / (Q2* * >(F42>[(@>* / (Q2* * >(Q. / +* 2J4/ H3[(W5/ 4(4/ 5(WG* * 2(c * ,@/ 5+[(N432(74T -G3(742T (-/ ,I * (74(E(=) / 0+I (?. / 5[(7-2* T 4/ d+(F42>[(+?G+I (?45[(?42>+(-/ (S* / * 24(E(M>* (?4,I +[(>424,* [(') T ? 42) / 5[(+) T T * 2(?2 S24T +[(@W2423[(,I * -2(M4H>3425+	" E P/<$; (K:<! (FN
$%%	F@3S2) / 5+	" E P/<$; (! :$; (FN
$%&	Q2450(I -G	" E P/<$; ($%! (FN

$%%	D* 9 (02* T 4/ d+(?42>	" E Ep/<$; ($<:%% (1 N
$%'	7-2* T 4/ d+[(=?G+I (?45(c -/ 5+. 2	" E Ep/<$; ($<:$ (1 N
$%K	=?G+I (?45+	" E Ep/<$; (:&! (1 N
$%	7-2* T 4/ +	" E Ep/<$; ($%< (1 N
$%	B-M2423	" E Ep/<$; ($<:&$(FN
$%	FG43(S2) / 5+	" E Ep/<$; ($<:<%(FN
$&<	=?G+I (?45	" E Ep/<$; (; :&! (FN
$&$	Q. / +* 2J4/ H3(+?G+I (?45	" E Ep/<$; (:! ! (FN
$&%	D. ,(+) 2*	" E Ep/<$; (K" ; (FN
$&&	=?G+I (?45+(4/ 5(?G43S2) / 5+	" E Ep/<$; (K" %(FN
$&!	@24-G	" E Ep/<$; (! :&" (FN
$&"	V. G4/ 5(0* 5+(?42>	" E Ep/<$; (&:%$(FN
$&K	7-2* T 4/ d+(?42>	" E Ep/<$; (%%$(FN
$&	=?G+I (?42>+	" E Ep/<$; (%<&(FN
$&	7-2* T * / +(g8h	" E Ep/<$; ($:&; (FN
$&;	FG43S2) / 5	" E Ep/<$; ($:$ (FN
$! <	7-2* T 4/ d+(?42>	" E Ep/<$; ($:$$(FN
$! $	P?54,* 5(?G43S2) / 5(* \ ) -?T * / ,(Z(+?G+I (?45+	" E Ep/<$; ($$:" ! (1 N
$! %	Q. / +* 2J4/ H3(?Ga4	" E Ep/<$; ($$:%$(1 N
$! &	=?G+I (?45(-/ (c -/ 5+. 2	" E Ep/<$; ($$:$ (1 N
$! !	Q. / +* 2J4/ H3[(Q245G(V-G[7-2* T 4/ _+(F42>	" E Ep/<$; ($$:<" (1 N
$! "	FG43S2) / 5+	" E Ep/<$; ($$:<%(1 N
$! K	@4,_+(4G[I -+(,. 9 / (H4,* 2+(,.	" E Ep/<$; ($$:<%(1 N
$!	7-2* T 4/ _+	" E Ep/<$; ($$:<<(1 N
$!	02* T 4/ +(?42>	" E Ep/<$; (; :" K(1 N
$! ;	Q. / +* 2J4/ H3(=?G+I (F45	" E Ep/<$; (:&<(1 N
$" <	=?G+I (?45+([?42>(* \ ) -?T * / ,	" E Ep/<$; (" :" (1 N
$" $	F42>	" E Ep/<$; (" :$%(1 N
$" %	WGT * / ,423(+H . . G	" EKp/<$; (; :& (FN
$" &	7-2* T 4/ d+(F42>	" EKp/<$; (; :%K(FN
$" !	=?G+I (?45+	" EKp/<$; (; :$&(FN
$" "	Q. / +* 2J4/ H3	" EKp/<$; (; :<&(FN
$" K	02* T 4/ (?42>	" EKp/<$; (:! ! (FN
$"	FG43S2) / 5(* \ ) -?T * / ,	" EKp/<$; (:$K(FN
$"	7-2* T 4/ +	" EKp/<$; (:% (FN
$" ;	@24-G	" EKp/<$; (:% (FN
$K<	7-2* T 4/ _+	" EKp/<$; (:%%(FN
K	D. / *	" EKp/<$; (K:! (FN
$K%	=T 4G[+G5* +(4/ 5(* 4+3(+,4-2+	" EKp/<$; (&:&<(FN
$K&	D. / *	" EKp/<$; (&:% (FN
$K!	=?G+I (F45(. J* 2(M3(1 L =	" EKp/<$; (%<; (FN

$K"	Q2450(V-G	" EKE/<$; (%<" (FN
$KK	1G	" EKE/<$; (%<&(FN
$K	Q. / +* 2J4/ H3(4/ 5(Q2450(V-G	" EKE/<$; ($:! <(FN
$K	+H . . (?G43S2) / 5+	" EKE/<$; ($:$<(FN
$K;	7-2* T 4/ d+(?42>	" EKE/<$; ($:<! (FN
$ <	Q. / +* 2J4/ H3	" EKE/<$; ($%" (FN
$ $	7-2* T 4M+	" EKE/<$; ($%! K(FN
$ %	1G	" EKE/<$; ($%! K(FN
$ &	@* 3(l 4J* (* J* 23,l -/ S(,l * 3(/ * * 5	" EKE/<$; ($%&<(FN
$!	F42>+	" EKE/<$; ($%% (FN
$ "	W4S0(?. -/ ,(+H . . (?G43S2) / 5(g9 l -H (-+/ d(,l 2) Sl (,l * (?42>+h	" EKE/<$; ($%%$(FN
$ K	7-2* T 4/ +(?42>	" EKE/<$; ($%$! (FN
$	=?G+l (F45	" EKE/<$; ($%$$(FN
$	c * +,* 2/ (U2* * /	! E%, E/<$; (; :<%(1N
$;	7-2* T 4/ _+(F42>	! E%KE/<$; (; :&K(1N
$ <	@* (?G43S2) / 5(4,(02* T 4/ _+(?42>	! E%KE/<$; (:%, (1N
$ $	/ * 9 (?G43S2) / 5(4,(7-2* T 4/ _+(F42>	! E%, E/<$; (; :" ! (1N
5	**%&(+. #" $<;=>$6" #**	**. , "**
$	=?G+l (?45(-/ (H / +* 2J4/ H3	" E%, E/<$; (; :! &(FN
%	7-2* T * / _+(F42>	" E%, E/<$; (; :! $(1N
&	c -/ ,* 2S2* * /	" E% E/<$; (:" "(FN
!	@-+(4S* (-+(0C^-M0(+. (-,(9 . 2>+() / ,-(G$<E$$	" E% E/<$; ($$:%&(1N
"	1 / 3(. 0(,l * (?42>+	" E% E/<$; (; :& (1N
K	=. H-H* 2(0* 05+	" E%' E/<$; (K:! %(FN
	7-2* T 4/ d+(F42>[(Q. T T) / -,3(Q* / ,* 2	" E%' E/<$; (" :$<(FN
	7-2* T 4/ _+(F42>	" E%, E/<$; ($$:<%(FN
;	F42>+	" E%, E/<$; (%! &(FN
$<	=?G+l (?45	" E%, E/<$; ($:$$(FN
$$	B-M2423	" E%, E/<$; (; :$" (1N
$%	7-2* T 4/ _+[(Q. / +* 2J4/ H3[(@* 2/ * 3(Z(c * +,* 2/ (U2* * / :(+?G+l (?45[(?-H/ -H(42* 4(?G43S2) / 5(9 -,l 2* +,2 . T +	" E%, E/<$; (" :! (1N
$&	1G0(,l * (?42>+	" E%KE/<$; (:&" (FN
$!	7-2* T 4/ +(F42>	" E%KE/<$; (%&! (FN
$"	FG43S2) / 5+	" E%KE/<$; ($<:$&(1N
$K	=?G+l (?45	" E%$E/<$; (%! ! (FN
$	Q. / +* 2J4/ H3[(02* T * / d+[(H2450(l -G	" E%$E/<$; (; :% (1N
$	D* * 5+(-T ?2 J* T * / ,	" E/<E/<$; (! :&" (FN
$;	F42>+(4/ 5(+?G+l (?45+	" E/<E/<$; ($$:<; (1N
%<	6 * 0 2* +,	" E/<E/<$; ($<:$! (1N
%$	FG43S2) / 5	" E/<E/<$; (; :" ! (1N
%%	4G0l * (?42>+(42* (S2* 4,	" E/<E/<$; (; :$" (1N

%&	7-2* T 4/ _+(?42>	" Ø<Ø<$; ($%" " (1 N
%(	=?@4+I (?45[(?. . @[-/ 5. . 2(?@43(+?4H* +	" Ø$; Ø<$; ($$:! ! (FN
%"	F@43S2) / 5(+?@4+I (?45	" Ø$; Ø<$; ($<:! %((FN
%K	c -/ 5+. 2(+. H+* 2(?@43S2) / 5	" Ø$; Ø<$; ($<:%((FN
%(	F@43S2) / 5(* \ ) -?T * / ,	" Ø$; Ø<$; ($<:<K(FN
%(	F@43S2) / 5	" Ø$; Ø<$; (; :$; (FN
%)	Q. / +* 2J4/ H3	" Ø$; Ø<$; (:" (FN
&<	7-2* T 4/ d+	" Ø$; Ø<$; (:&<(FN
&$	7-2* T 4/ d+	" Ø$; Ø<$; (:<! (FN
&%	D. / *	" Ø$; Ø<$; (:" %((FN
&&	7-2* T 4/ +	" Ø$; Ø<$; (:! ! (FN
&(	D. / *	" Ø$; Ø<$; (:&K(FN
&"	7-2* T 4/	" Ø$; Ø<$; (:&" (FN
&K	F42>(* \ ) -?T * / ,	" Ø$; Ø<$; (:&! (FN
&(	D. ,(* / .) S(	" Ø$; Ø<$; (:%' (FN
&(	7-2* T 4/ +	" Ø$; Ø<$; (:%' (FN
&)	=?@4+I (?42>+	" Ø$; Ø<$; (:%&(FN
! <	7-* @5+	" Ø$; Ø<$; (:%&(FN
! $	7-2* T 4/ d+(?42>	" Ø$; Ø<$; (:%<(FN
! %	/ * 9 (7-2* T 4/ +(F42>(4/ 5(W4S@(F. -/ ,(?@43S2) / 5	" Ø$; Ø<$; (:$ (FN
! &	7-2* T 4/ d+(?42>	" Ø$; Ø<$; (:$ (FN
! !	D. / *	" Ø$; Ø<$; (:$! (FN
! "	F@43S2) / 5+	" Ø$; Ø<$; (:$&(FN
! K	F@43S2) / 5+[(H) 2,+B* @5+	" Ø$; Ø<$; (:$$(FN
! (	6 . 9 / ,. 9 /	" Ø$; Ø<$; (" :" %((FN
! (	7-2* T 4/ +	" Ø$; Ø<$; (K:! K(1 N
! ;	=4T * (4+(4M J*	" Ø$; Ø<$; (K:%) (1 N
" <	1 / 3	" Ø$ Ø<$; (:$ (FN
" $	=?@4+I (?42>	" Ø$ Ø<$; ($<:$ (1 N
" %	c * +,* 2((U2* * / (1 2* 4(F42>[(7-2* T 4/ d+(F42>+	" Ø$ Ø<$; (:" %((1 N
" &	1@4T * / -,-* +	" Ø$ Ø<$; (K:! %((1 N
"!	F@43S2) / 5+[(,24-G[(+?@4+I (?45[(=) / 0+I (F. / 5	" Ø$ Ø<$; (! :<&(1 N
""	F@/ ,3(. 0(0* @5+(0 2(5-0* 2* / ,(4H,J-,-* +	" Ø$ Ø<$; (:&! (FN
" K	Q245@(I -G	" Ø$K Ø<$; (; :$%((FN
" (	F@43S2) / 5+	" Ø$K Ø<$; (! :" (FN
" (	N3($<(3* 42(. @5(-+(M 2* 5(-/ (6 * 0 2* +,	" Ø$K Ø<$; (! :<$(FN
";	F42>+	" Ø$K Ø<$; ($:&&(FN
K<	7-2* T 4/ +	" Ø$K Ø<$; ($:$ (FN
K$	7-2* T 4/ d+(F42>	" Ø$K Ø<$; ($:$" (FN
K%	@4,+(,. (M5(. 0(4/ (4S* (S2) ? $%(3* 42(. @5(5. / ,(I 4J* (* / .) S((,. (5.	" Ø$" Ø<$; (; :$K(FN
K&	+?@4+I (?45+(4/ 5(?@43S2) / 5+	" Ø$" Ø<$; (%<&(FN

K!	F42>+	" ₧! ₱<$; (! :% (FN
K"	=?G+I (?45[(=?. 2(H T ?G^[(?G3S2) / 5[(=>4,* (?42>[(M>* (,24-G	" ₧! ₱<$; (&! (FN
KK	=. H-f 2(0* G5+	" ₧! ₱<$; ($%! ; (FN
K	=. H-f 2(0* G5+	" ₧&₱<$; (:&" (1N
K	=?G+I (?45	" ₧&₱<$; (:$&(1N
K;	c * +,* 2/ U2* * / (?42>(. 2(7-2* T 4/ d+	" ₧%₱<$; (%" %(FN
<	F@3S2) / 5+	" ₧%₱<$; ($:&" (FN
$	F@3S2) / 5+(4/ 5(4H-J-,-* +	" ₧%₱<$; ($%<&(FN
%	7-2* T 4/ d+(?42>(4/ 5(+?G+I (?45	" ₧%₱<$; ($<:%$(1N
&	=?. 2+(?2 S24T +	" ₧%₱<$; (" :" $(1N
!	D* 9 (?G3S2) / 5+	" ₧$₱<$; ($<:" ; (FN
"	c * +,* 2/ (S2* * /	" ₧$₱<$; (; :&%(FN
K	F@3S2) / 5	" ₧$₱<$; (:! $(FN
	F@3S2) / 5+	" ₧$₱<$; (:" <(FN
	7-2* T 4/ +	" ₧$₱<$; ($:&$(FN
;	7-2* T 4/ _+(?42>	" ₧$₱<$; ($%<; (FN
<	@24-G(4/ 5(?42>+	" ₧$₱<$; ($%<$(FN
$	7-2* T 4/ d+	" ₧$₱<$; ($<:<%(1N
%	1@?42>+	" ₧$₱<$; (; :% (1N
&	=4T * (4+(4M J*	" ₧$₱<$; (; :% (1N
!	=. T * (?G3S2) / 5+	" ₧$₱<$; (; :% (1N
"	F42>+	" ₧$₱<$; (; :%K(1N
K	n-) (`-,+)	" ₧$₱<$; (:" %(1N
	F42>E=?G+I (F45	" ₧$₱<$; (:" <(1N
	C4I 424	" ₧$₱<$; (:&&(1N
;	@* (+. H-f 2(0* G5(?42>(9 -,I (,I * (a-?(G* (-+(,I * (. / G(0) / (?G3S2) / 5(0 2(. G5* 2(>-5+	" ₧$₱<$; (:$K(1N
; <	7-2* T 4/ d+(?42>	" ₧$₱<$; (:! ! (1N
; $	F@3S2) / 5+	" ₧$₱<$; (:! <(1N
; %	F@3(* \ ) -?T * / ,(Z(M>* (,24-G	" ₧$₱<$; (:&; (1N
; &	V. G/ 5(0* G5+(+?G+I (?45(4/ 5(?42>	" ₧$₱<$; (:&%(1N
; !	Q245G(V-G	" ₧$₱<$; (:% (1N
; "	=H . . G	" ₧<₱<$; (; :" %(FN
; K	=?G+I (?45+	" ₧<₱<$; (%! &(FN
;	?G3S2) / 5+	" ₧<₱<$; (%! $(FN
;	Q. / +* 2J4/ HB(H T T . / +(Z(V. G/ 5(0* G5+	" ₧<₱<$; ($:<" (FN
; ;	F42>(. / (=,42(U4a* 2(6 2	" Ę ₱<$; (:! ! (FN
$<<	=?G+I ?45+[(?G3S2) / 5+	" Ę ₱<$; (K:% (FN
$<$	7-2* T 4/ d+(F42>	" Ę ₱<$; (%" <(FN
$<%	/ . ,(+) 2*	" Ę ₱<$; (%% (FN
$<&	7-2* T 4/ _+(F42>(?G3S2) / 5	" Ę ₱<$; (%< (FN
$<!	c -/ 5+. 2(+?G+I (?45	" Ę ₱<$; ($$:" ! (1N

$<"	7-2* T 4/ +(?42>	" E, E%<$; ($$:& (1 N
$<K	F@43S2) / 5(4/ 5(+?. 2,+	" E, E%<$; (K:! (1 N
$<	F@43S2) / 5	" E, E%<$; (" :" " (1 N
$<	F42>+(,24-G(+?. 2,+	" E E%<$; (:" %(FN
$<;	W4S@(F. -/ ,	" E E%<$; (:&" (FN
$$<	+?4+I (?42>+[(?42>+[(J42.) +(?2 S24T +	" E E%<$; (:%$(FN
$$$	$	" E E%<$; (:<! (FN
$$%	@ >* / (Q2* * >(F42>[(@ >* / (Q2* * >(Q. / +* 2J4/ H3[(W5/ 4(4/ 5(W@* * 2(c * ,@4/ 5+[(N432(74T -@3(742T (-/ ,I * (74@(=) / 0+I (?. / 5[(7-2* T 4/ d+(F42>[(+?@4+I (?45[(?42>+(-/ (S* / * 24@(M>* (?4,I +[(>424,* [(`) T ? 42) / 5[(+) T T * 2(?2 S24T +[(@M2423[(,I * -2(M4H>3425+	" E E%<$; (K:<! (FN
$$&	F@43S2) / 5+	" E E%<$; (! :$; (FN
$$!	D. (45* \ ) 4,* (M4+* M4@(@4H-G,-* +	" E E%<$; ($<:% (1 N
$$"	7-2* T 4/ d+[(=?@4+I (?45(c -/ 5+. 2	" E E%<$; ($<:$ (1 N
$$K	7-2* T 4/ +(?42>(4/ 5(+?@4+I (?45+	" E E%<$; (:&! (1 N
$$	c * +,* 2/ (S2* * / (. 2(02* T 4/ +	" E E%<$; ($%< (1 N
$$	B-M2423	" E E%<$; ($<:&$(FN
$$;	F@43S2) / 5+	" E E%<$; ($<:<%(FN
$%<	F42>	" E E%<$; (; :&! (FN
$%$	7-2* T 4/ _+(?42>	" E E%<$; (; :<%(FN
$%%	F4J* 5(9 4@-/ S@4>-/ S(,24-G(4/ 5(-H* (2/ >	" E E%<$; (:! (FN
$%&	Q. / +* 2J4/ H3(+?@4+I (?45E?@43S2) / 5	" E E%<$; (:! ! (FN
$%(	D. ,(+) 2*	" E E%<$; (K:" ; (FN
$%'	@24-G	" E E%<$; (! :&" (FN
$%K	7-2* T 4/ d+(F42>	" E E%<$; (%%$(FN
$%	R42.) +(?@43S2) / 5+	" E E%<$; (%<&(FN
$%	1 / 3	" E E%<$; ($:&; (FN
$%,	F@43S2) / 5+[(+?@4+I (. 0	" E E%<$; ($:$ (FN
$&<	7-2* T 4/ d+(?42>	" E E%<$; ($:$$(FN
$&$	P?S245* 5(?@43S2) / 5(* \ ) -?T * / , (7-+I (?. / 5	" E E%<$; ($$:" ! (1 N
$&%	Q245@(V-G	" E E%<$; ($$:<" (1 N
$&&	7-+I -/ S(4,(=) / 0+I	" E E%<$; ($$:<%(1 N
$&(	=4T *	" E E%<$; ($$:<%(1 N
$&'	c * +,* 2/ (U2* * /	" E E%<$; ($$:<<(1 N
$&K	1@(?@43S2) / 5+	" E E%<$; (:&<(1 N
$&,	F42>(* \ ) -?T * / ,(0 2(,I * (3.) / S* 2(24/ S*	" E E%<$; (" :" (1 N
$&-	7-2* T 4/ d+(F42>	" EKE%<$; (; :%K(FN
$&;	B-/ 53(7-* @	" EKE%<$; (; :$&(FN
$! <	Q. / +* 2J4/ H3	" EKE%<$; (; :<&(FN
$! $	9 * +,* 2/ (S2* * /	" EKE%<$; (:! ! (FN
$! %	F@43S2) / 5(4/ 5(+?@4+I ?45	" EKE%<$; (:$K(FN
$! &	c * +,* 2/ (S2* * /	" EKE%<$; (:% (FN

$! !	@24-G	" EKE/<$; (:% (FN
$! "	m-?(G * (?42>	" EKE/<$; (:%%(FN
$! K	D. / *	" EKE/<$; (K:! (FN
$!	FG/ ,3(. 0(+9 -/ S+(4/ 5(@2S* 2(+G5* +	" EKE/<$; (&:&<(FN
$!	D. / *	" EKE/<$; (&:% (FN
$! ;	L->* (,24-G(0+I -/ S(4/ 5(+>4,* (2/ >+	" EKE/<$; (%% (FN
$" <	B. ,+(. 0(. ?,-. / +	" EKE/<$; (%<; (FN
$" $	1@G	" EKE/<$; (%<&(FN
$" %	7-2* T 4/ d-(?42>	" EKE/<$; ($:" " (FN
$" &	Q. / +* 2J4/ H3	" EKE/<$; ($:! (FN
$" !	Q. / +* 2J4/ H3(4/ 5(Q245G(V-G	" EKE/<$; ($:! <(FN
$" "	?@43(S2) / 5+	" EKE/<$; ($:$<(FN
$" K	7-2* T 4/ d-(?42>	" EKE/<$; ($:<! (FN
$"	Q. / +* 2J4/ H3	" EKE/<$; ($%" (FN
$"	7-2* T 4/ d-	" EKE/<$; ($%! K(FN
$" ;	1@G	" EKE/<$; ($%! K(FN
$K<	A?* / (=?4H*	" EKE/<$; ($%% (FN
K	7-2* T 4/ +(?42>	" EKE/<$; ($%$! (FN
$K%	7-2* T 4/ d-(F42>	" EKE/<$; ($%$$(FN
$K&	c * +,* 2/ (U2* * /	! E% E/<$; (; :<%(1N
$K!	7-2* T 4/ _+(F42>	! E/KE/<$; (; :&K(1N
$K"	c * +,* 2/ (S2* * / (?@43S2) / 5	! E/KE/<$; (:% (1N
$KK	2* H2* 4,-. / 4@?2 S24T T -/ S(4/ 5(+?. 2+	! E% E/<$; (; :" ! (1N
5	**. ' +" %" , $=?;=@6 " #**	**. , "**
$	D. ,I -/ S	" E% E/<$; ($$:%&(1N
%	7-2* T 4/ d-(F42>	" E% E/<$; (; :& (1N
&	=. H-H* 2(0* G5+	" E% E/<$; (K:! %(FN
!	7-2* T 4/ _+(F42>	" E% E/<$; ($$:<%(FN
"	B-M2423	" E% E/<$; (; :$" (1N
K	@* 2/ * 3[(c * +,* 2/ (U2* * / :(M4+>* ,M4@Z(J. G3M4@H) 2,+	" E% E/<$; (" :! (1N
	=. H-H* 2(0* G5+	" E%/E/<$; (:&" (FN
	7-2* T 4/ +(F42>	" E%/E/<$; (%&! (FN
;	L4+* M4@-. 0)M4@9 I * / (/ * 9 (. / * +(. ?* /	" E/$E/<$; (%! ! (FN
$<	N. 2* (M4+* M4@0* G5+(42* (/ * * 5* 5(-/ +,* 45(. 0(+. 0)M4@2-H>G M4@G	" E/<E/<$; (! :&" (FN
$$	6 * 0 2* +,	" E/<E/<$; ($<:$! (1N
$%	8	" E/<E/<$; (; :$" (1N
$&	D. / * 8	" E/<E/<$; ($%" " (1N
$!	Q. T T) / -,3(H* / ,* 2	" E$; E/<$; ($$:! ! (FN
$"	L T ^[(?@43S2) / 5(H) 2,+[(+?@+I ?45+(+>4,*	" E$; E/<$; ($<:! %(FN
$K	P/ +) 2*	" E$; E/<$; ($<:%' (FN
$	@24-G[(0+I -/ S	" E$; E/<$; (; :$; (FN

$	8	" ; ; (:&<(FN
$;	7-2* T 4/ d+	" ; ; (:<! (FN
%<	D. / *	" ; ; (:" %(FN
%$	7-2* T 4/ d+	" ; ; (:! ! (FN
%%	D. / *	" ; ; (:&K(FN
%&	7-2* T 4/	" ; ; (:&" (FN
%(	P/ +) 2*	" ; ; (:&! (FN
%)	X* H	" ; ; (:%' (FN
%K	7-* G5+	" ; ; (:%&(FN
%+	D. / * (4J4-G4MG	" ; ; (:%<(FN
%,	6 . / _(I 4J* (4(04T -G3(T * T M 2(. 0(,I -+(4S*	" ; ; (:$ (FN
%-	7-2* T 4/ d+(?42>E+H . . (@0* G5+	" ; ; (:$ (FN
&<	D. / *	" ; ; (:$! (FN
&$	Q.) 2,+E0* G5+	" ; ; (:$$(FN
&%	6 . 9 / ,. 9 /	" ; ; (" :" %(FN
&&	7-2* T 4/ +	" ; ; (K:! K(1N
&!	D. ,(T) H (0 2(,I -+(4S* (S2) ?	" ; ; (K:% (1N
&"	D. ,(+) 2*	" ; $ (FN
&K	8	" ; $ ($<:$ (1N
&+	c * +,* 2((U2* * / (1 2* 4(F42>[(7-2* T 4/ d+(F42>+	" ; $ (:" %(1N
&,	1 @4T * / -,-* +	" ; $ (K:! %(1N
&-	F42>+[(,24-G[(4,I G,-H(0* G5+	" ; $ (! :<&(1N
! <	D. ,I -/ S	" ;K ; (! :" (FN
! $	D. ,I -/ S	" ;K ; (! :<$(FN
! %	D. ,(T) H	" ;K ; ($:&&(FN
! &	/ . / *	" ;K ; ($:$ (FN
! !	D. / *	" ;K ; ($:$" (FN
! "	D. ,I -/ S(0 2(,I * T (,. (5. . 2(H T T) / -,3(S* 42* 5(,. (,I * T	" ; " ; (; :$K(FN
! K	=H . . G	" ; " ; (%<&(FN
!	=?. 2,(H T ?G^[(+>4,* (?42>[(M>* (,24-G[(0+I -/ S	" ;! ; (&! (FN
!	=. H-H* 2(0* G5+	" ;! ; ($%! ; (FN
! ;	=. H-H* 2(0* G5+	" ;&; (:&" (1N
" <	8(Y,I -/ >(+>4,* (?42>(. 2(6 -+>(S. @	" ;&; (:$&(1N
" $	D* 9 (M4+* M4@@* G5+	" ;%; ($%<&(FN
" %	L->* (?4,I +	" ;%; ($<:%$(1N
" &	1,I G,-H(0* G5+	" ;$; ($<:" ; (FN
"!	D. / *	" ;$; (; :&%(FN
" "	L->* (?4,I	" ;$; (:" <(FN
" K	D. / *	" ;$; ($%<; (FN
"	8	" ;$; ($%<$(FN
"	D. ,(+) 2*	" ;$; ($<:$K(1N

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";	7-2* T 4/ d+	" E$P<$; ($<:<%(1N
K<	,24-G[(M4+>* ,M4G[-H* (+>4,-/ S	" E$P<$; (; :% (1N
K$	P/ +) 2*	" E$P<$; (; :% (1N
K%	N) G() +* (0* 5+	" E$P<$; (; :% (1N
K&	/ E4	" E$P<$; (; :%K(1N
K!	DE4	" E$P<$; (:" %(1N
K"	D. / *	" E$P<$; (:$K(1N
KK	=4J4/ / 4I	" E$P<$; (:! ! (1N
K	L4+>* ,M4G[H) 2,+	" E$P<$; (:! <(1N
K	L->* (,24-G(Z(M4+>* ,M4G[H) 2,+	" E$P<$; (:&; (1N
K;	8	" E$P<$; (:&%(1N
<	7-2* T 4/ _+(F42>	" E$P<$; (:% (1N
$	D. / *	" E<P<$; (; :" %(FN
%	/ . ,I -/ S	" E<P<$; (%! $(FN
&	DE	" E,P<$; (:! ! (FN
!	=?. 2,+(0* 5+	" E,P<$; (K:% (FN
"	/ . ,(+) 2*	" E,P<$; (%% (FN
K	DADW	" E,P<$; (%< (FN
	P/ >/ . 9 /	" E,P<$; ($$:& (1N
	=?. 2,+	" E,P<$; (K:! (1N
;	=?. 2,+	" E P<$; (:" %(FN
<	D. / *	" E P<$; (:&" (FN
$	+?4+I (?42>+[(?42>+[(J42-) +(?2 S24T +	" E P<$; (:%$(FN
%	@ >* / (Q2* * >(F42>[(@ >* / (Q2* * >(Q. / +* 2J4/ H3[(W5/ 4(4/ 5(WG* 2(c * ,G4/ 5+[(N432(74T -G3(742T (-/ ,I * (74G[=) / 0+I (?. / 5[(7-2* T 4/ d+(F42>[(+?G4+I (?45[(?42>+(-/ (S* / * 24G[M>* (?4,I +[(>424,* [(') T ? 42) / 5[(+) T T * 2(?2 S24T +[(G4M2423[(,I * -2(M4H>3425+	" E P<$; (K:<! (FN
&	=?. 2,(04H-G-* +	" E P<$; (! :$; (FN
!	D. (45* \ ) 4,* (M4+* M4G[04H-G-* +	" E P<$; ($<:% (1N
"	7-2* T 4/ +	" E P<$; ($% (1N
K	=H . . G?2 S24T +	" E P<$; ($<:&$(FN
	=?. 2,+(0* 5+	" E P<$; ($<:<%(FN
	D. ,(+) 2*	" E P<$; (; :&! (FN
;	7-2* T 4/ _+(?42>	" E P<$; (; :<%(FN
; <	F4J* 5(9 4G-/ SE4>-/ S(,24-G-	" E P<$; (:! (FN
; $	1G?42>(+I * G* 2+(4/ 5(+?. 2,+(0* 5+	" E P<$; (:! ! (FN
; %	D. ,(+) 2*	" E P<$; (K:" ; (FN
; &	N . 2* (04H-G-* +(+(/ * * 5* 5	" E P<$; (" :%K(FN
; !	@24-G-	" E P<$; (! :&" (FN
; "	D. / *	" E P<$; (%<&(FN
; K	D. / *	" E P<$; ($:&; (FN
;	FG43S2) / 5g8h	" E P<$; ($:$ (FN

;	@ G-* / (H2* * >	" E P/<$; ($:$$(FN
; ;	=. H-H* 2(7-* G	" E P/<$; ($%&! (FN
$<<	,24-G	" E P/<$; ($$:<" (1N
$<$	@ * 2* (-+(/ . ,I -/ S(,. (5.	" E P/<$; ($$:<%(1N
$<%	c * +,* 2/ (U2* * /	" E P/<$; ($$:<<(1N
$<&	8	" E P/<$; (:&<(1N
$<!	D* * 5(T . 2*	" E P/<$; (" :" (1N
$<"	7-2* T 4/ d+(F42>	" EKP/<$; (; :%K(FN
$<K	B-/ 53(7-* G	" EKP/<$; (; :$&(FN
$<	F42>(,24-G	" EKP/<$; (; :<&(FN
$<	9 * +,* 2/ (S2* * /	" EKP/<$; (:! ! (FN
$<;	c * +,* 2/ (S2* * /	" EKP/<$; (:% (FN
$$<	@24-G	" EKP/<$; (:%' (FN
$$$	m-?(G * (?42>	" EKP/<$; (:%%(FN
$$%	D. / *	" EKP/<$; (K:! (FN
$$&	D. / *	" EKP/<$; (&:% (FN
$$!	L->* (,24-G(0+I -/ S(4/ 5(+>4,* (2/ >+	" EKP/<$; (%% (FN
$$"	B. ,+(. 0(. ?,-. / +	" EKP/<$; (%<; (FN
$$K	1 G	" EKP/<$; (%<&(FN
$$	P/ H* 24-/	" EKP/<$; ($:! <(FN
$$	M4+>* ,M4-G-H) 2,+	" EKP/<$; ($:$<(FN
$$;	7-2* T 4/ d+(?42>	" EKP/<$; ($:<! (FN
$%<	Q. / +* 2J4/ H3	" EKP/<$; ($%" (FN
$%$	1 G	" EKP/<$; ($%! K(FN
$%%	D. ,I -/ S(4,(4G	" EKP/<$; ($%% (FN
$%&	c * +,* 2/ (U2* * /	! P% P/<$; (; :<%(1N
$%	L 4+>* ,M4-G4,(02* T 4/ +	! P%KP/<$; (:% (1N
5	**. 3 +, $=A;<B$6" #**	**. ,"**
$	@24-G	" P% P/<$; (; :! &(FN
%	FG/ ,3(. 0* 2* 5	" P% P/<$; ($$:%&(1N
&	7-2* T 4/ d+(F42>	" P% P/<$; (; :& (1N
!	@24-G[(5. S(?42>	" P' P/<$; (K:! %(FN
"	7-2* T 4/ _+(F42>	" P(P/<$; ($$:<%(FN
K	7-2* T 4/ d+(F42>B42T * 2+(T 42>* ,	" P(P/<$; (%! &(FN
	=. 0M4-G0* G+	" P(P/<$; (; :$" (1N
	7-2* T 4/ _+(F42>(5-4T . / 5+P??* 2(C4I 424(X-J* 2(,24-G	" P(P/<$; (" :! (1N
;	@24-G	" P%P/<$; (:&" (FN
$<	7-2* T 4/ +(F42>	" P%P/<$; (%&! (FN
$$	742T * 2+(T 42>* ,	" P%P/<$; ($<:$&(1N
$%	B-SI ,* 5(0* G+	" P$P/<$; (%! ! (FN
$&	c 4G-/ S(,24-G	" P/<P/<$; (! :&" (FN

$!	Y(H4/ ,(,I -/ >(. 0(4/ 3,I -/ S	" Ø<Ø<$; ($:%%(FN
$"	6 * 0 2* +,	" Ø<Ø<$; ($<:$! (1N
$K	M>* (,24-G	" Ø<Ø<$; (; :$" (1N
$	D. / * 8	" Ø<Ø<$; ($%" " (1N
$	Q. T T) / -,3(H* / ,* 2(?. . G	" Ø$; Ø<$; ($$:! ! (FN
$;	@24-G	" Ø$; Ø<$; ($<:! %(FN
%<	P/ +) 2*	" Ø$; Ø<$; ($<:% (FN
%$	742T * 2+(T 42>* ,	" Ø$; Ø<$; ($<:<K(FN
%%	X* J(4H,-J-,-* +	" Ø$; Ø<$; (; :" ; (FN
%&	@24-G[(0+I -/ S	" Ø$; Ø<$; (; :$; (FN
%(	=) / 0+I	" Ø$; Ø<$; (:&<(FN
%'	7-2* T 4/ d+	" Ø$; Ø<$; (:<! (FN
%K	F4J* 5(,24-G	" Ø$; Ø<$; (:" %(FN
%	F4J* 5(,24-G	" Ø$; Ø<$; (:" <(FN
%	7-2* T 4/ d+	" Ø$; Ø<$; (:! ! (FN
%)	D. / *	" Ø$; Ø<$; (:&K(FN
&<	P/ +) 2*	" Ø$; Ø<$; (:&! (FN
&$	X* H(45) G(H4+++* +	" Ø$; Ø<$; (:% (FN
&%	7-2* T 4/ +	" Ø$; Ø<$; (:% (FN
&&	@24-G	" Ø$; Ø<$; (:%&(FN
&!	P/ +) 2*	" Ø$; Ø<$; (:%<(FN
&"	c * () +* (,I * (4T * / -,-* +(.) 2(>-5+(H4/ (S. (,.	" Ø$; Ø<$; (:$ (FN
&K	=H . . (0* G+(4/ 5(c * +,* 2/ (S2* * /	" Ø$; Ø<$; (:$ (FN
&	D. / *	" Ø$; Ø<$; (:$! (FN
&	@24-G	" Ø$; Ø<$; (:$$(FN
&;	8	" Ø$; Ø<$; (" :" %(FN
! <	M>* Ø 4G-/ S(,24-G	" Ø$; Ø<$; (%% (FN
! $	7-2* T 4/ +	" Ø$; Ø<$; (K:! K(1N
! %	P/ +) 2*	" Ø$; Ø<$; (K:% (1N
! &	D-,(+) 2*	" Ø$ Ø<$; (:$ (FN
! !	@24-G	" Ø$ Ø<$; ($<:$ (1N
! "	c * +,* 2/ (U2* * / (1 2* 4(F42>[(7-2* T 4/ d+(F42>+	" Ø$ Ø<$; (:" %(1N
! K	1 G4T * / -,-* +	" Ø$ Ø<$; (K:! %(1N
!	@24-G[(9 4,* 2(4H+* ++[(S42>* / +[(4,I G,-H(0* G+	" Ø$ Ø<$; (! :<&(1N
!	F4J* 5(,24-G	" Ø$ Ø<$; (:&! (FN
! ;	@24-G	" Ø$K Ø<$; (! :" (FN
" <	c 4G-/ S(?4,I +	" Ø$K Ø<$; (! :<$(FN
" $	F42>+	" Ø$K Ø<$; ($:&&(FN
" %	c * +,* 2/ (U2* * /	" Ø$K Ø<$; ($:$ (FN
" &	D4	" Ø$K Ø<$; ($:$" (FN
"!	c 4G-/ S(,24-G	" Ø$" Ø<$; (; :$! (FN

" "	I ->-/ S(,24-G	" E$" E%<$; (%<&(FN
" K	7-+I -/ S[(,24-G	" E$! E%<$; (! :% (FN
"	M>* (,24-G[(0+I -/ S[(+I * G* 2(I .) +*	" E$! E%<$; (&:! (FN
"	7-+I -/ S(4HH* ++	" E$! E%<$; ($%! ; (FN
" ;	Q. / H* 2,+E4H,-J-,-* +(-/ (,I * (?42>	" E$&E%<$; ($$:<! (FN
K<	L ->* (,24-G3C34I 424(?-+H>GM4G. .	" E$&E%<$; (:&" (1N
K$	@24-G	" E$&E%<$; (:$&(1N
K%	D. ,(+) 2*	" E$%E%<$; ($%<&(FN
K&	L ->* (?4,I +	" E$%E%<$; ($<:%$(1N
K!	7-2* T 4/ +	" E$%E%<$; (:% (1N
K"	742T * 2+(T 42>* ,	" E$%E%<$; (" :" $(1N
KK	@24-G	" E$$E%<$; ($<:" ; (FN
K	7-2* T 4/ +	" E$$E%<$; (; :&%(FN
K	F42>(WJ* / ,+	" E$$E%<$; (:! $(FN
K;	X* H(?2 S24T +	" E$$E%<$; (:" <(FN
<	@24-G	" E$$E%<$; ($%<$(FN
$	D. ,(+) 2*	" E$$E%<$; ($<:$K(1N
%	c * +,* 2/ (U2* * /	" E$$E%<$; ($<:<%(1N
&	@24-G[(7F (* J* / ,+	" E$$E%<$; (; :% (1N
!	7-2* T 4/ _+(6 * 7. 2* +,	" E$$E%<$; (; :% (1N
"	X* H(?2 S24T +	" E$$E%<$; (; :% (1N
K	/ E4	" E$$E%<$; (; :%K(1N
	P/ +) 2*	" E$$E%<$; (:" %(1N
	@24-G	" E$$E%<$; (:" <(1N
;	* ^* 2H+* (?2 S24T +(. 00 2* 5(,I 2) SI (,I * (2* H(5* ?,	" E$$E%<$; (:! ; (1N
<	@24-G	" E$$E%<$; (:$K(1N
$	L42	" E$$E%<$; (:" (1N
%	=4J4/ / 4I	" E$$E%<$; (:! ! (1N
&	@24-G(4/ 5(S425* / +[(?-H/ -H(42* 4+	" E$$E%<$; (:! <(1N
!	@24-G(. 0(4GG3?* +[(S425* / +[(M4/ 5(+I * GG(S4,I * 2-/ S(+?4H* +	" E$$E%<$; (:&; (1N
"	c 4G>-/ SEM>-/ S(,24-G	" E$$E%<$; (:&%(1N
K	P??* 2(C4I 424(X-J* 2(@24-G	" E$$E%<$; (:% (1N
	D. / *	" E$<E%<$; (; :" %(FN
	,24-G+3+,* T	" E$<E%<$; (K:& (FN
;	F4J* 5(,24-G	" E$<E%<$; (%! &(FN
; <	+?. 2,+(04HG-* +	" E$<E%<$; (%! $(FN
; $	7-2* T 4/	" E$<E%<$; ($:<" (FN
; %	F4J* 5(,24-G	" E, E%<$; (:! ! (FN
; &	@24-G	" E, E%<$; (K:% (FN
; !	6 * 7. (2* H(?2 S24T (* ^* 2H+* (HG++* +	" E, E%<$; (%% (FN
; "	DADW	" E, E%<$; (%< (FN

; K	L 4/ 5(=I * G	" E P/<$; ($$:" ! (1 N
;	c * +,* 2/ (S2* * /	" E P/<$; ($$:& (1 N
;	@24-G	" E P/<$; (K:! (1 N
; ;	c 4G-/ S(,24-G	" E P/<$; (" :" " (1 N
$<<	88	" E P/<$; (:&" (FN
$<$	J42-.) +(?2 S24T +	" E P/<$; (:%$(FN
$<%	%	" E P/<$; (:<! (FN
$<&	@ >* / (Q2* * >(F42>[(@ >* / (Q2* * >(Q. / +* 2J4/ H3[(W5/ 4(4/ 5(WG * 2(c * ,G4/ 5+[(N 432(74T -G3(742T (-/ ,I * (74G(=) / 0+I (?. / 5[(7-2* T 4/ d+(F42>[(+?G4+I (?45[(?42>+(-/ (S* / * 24G(M>* (?4,I +[(>424,* [(`) T ? 42) / 5[(+) T T * 2(?2 S24T +[(G-M2423[(M42+B2* +,4) 24/ ,+[(042T * 2+(T 42>* ,	" E P/<$; (K:<! (FN
$<!	=?. 2,(04H-G-* +	" E P/<$; (! :$; (FN
$<"	@ >* / (H2* * >	" E P/<$; ($<:% (1 N
$<K	7-2* T 4/ +	" E P/<$; ($%< (1 N
$<	Q. T T) / -,3(?2 S24T +	" E P/<$; ($<:&$(FN
$<	8	" E P/<$; ($<:<%(FN
$<;	D. ,(+) 2*	" E P/<$; (; :&! (FN
$$<	7-2* T 4/ _+(?42>	" E P/<$; (; :<%(FN
$$$	F4J* 5(9 4G-/ SEM>-/ S(,24-G	" E P/<$; (:! (FN
$$%	=?. 2+(0* G5+(4/ 5(02* T 4/ d+(?42>(+I * G* 2	" E P/<$; (:! ! (FN
$$&	7-2* T 4/ d+	" E P/<$; (K:" ; (FN
$$!	@24-G	" E P/<$; (! :&" (FN
$$"	C4I 424(X-J* 2(@24-G	" E P/<$; (%<&(FN
$$K	D. / * (g . 9 (4M) ,(4(0,/ * ++(?42>h	" E P/<$; ($:&; (FN
$$	F4,I +[(2* +,4) 24/ ,+	" E P/<$; ($:$ (FN
$$	@ G-* / (Q2* * >	" E P/<$; ($:$$(FN
$$;	F42>(@24-G=3+,* T	" E P/<$; ($%&! (FN
$%<	,24-G	" E P/<$; ($$:<" (1 N
$%$	P??* 2(C4I 424(X-J* 2(@24-G	" E P/<$; ($$:<%(1 N
$%%	6 2) / >(+. 0M4G	" E P/<$; ($$:<%(1 N
$%&	c * +,* 2/ (U2* * /	" E P/<$; ($$:<<(1 N
$%(	9 * +,* 2/ (S2* * /	" E P/<$; (; :" K(1 N
$%'	P??* 2(C4I 424(@24-G	" E P/<$; (:&<(1 N
$%K	Q. T T) / -,3(Q* / ,* 2	" EKP/<$; (; :%K(FN
$%	L ->* (,24-G	" EKP/<$; (; :$&(FN
$%	F42>(,24-G	" EKP/<$; (; :<&(FN
$%,	P??* 2(34I 424(,24-G	" EKP/<$; (:" %(FN
$&<	9 * +,* 2/ (S2* * /	" EKP/<$; (:! ! (FN
$&$	=. 0M4G(5-4T . / 5+	" EKP/<$; (:%K(FN
$&%	c 4G-/ S(,24-G	" EKP/<$; (:$K(FN
$&&	c * +,* 2/ (S2* * /	" EKP/<$; (:% (FN
$&!	@24-G	" EKP/<$; (:% (FN

$&"	D. / *	" ÆKÐ⁄<$; (K:! (FN
$&K	7-2* T 4/ +(F42>[(C4I 424(X-J* 2(@24-G	" ÆKÐ⁄<$; (K:$; (FN
$&	D. / *	" ÆKÐ⁄<$; (&:% (FN
$&	1 ©I * (/ * 9 (,24-G(0 2(9 4©-/ S[(M>-/ S	" ÆKÐ⁄<$; (%<; (FN
$&;	1 ©G	" ÆKÐ⁄<$; (%<&(FN
$! <	P/ H* 2,4-/	" ÆKÐ⁄<$; ($:! <(FN
$! $	,4H (M* ©G	" ÆKÐ⁄<$; ($:$<(FN
$! %	7-2* T 4/ d+(?42>	" ÆKÐ⁄<$; ($:<! (FN
$! &	D. / *	" ÆKÐ⁄<$; ($%! K(FN
$! !	R* 23(G,©G	" ÆKÐ⁄<$; ($%% (FN
$! "	c * +,* 2/ (U2* * /	! Ð⁄ Ð⁄<$; (; :<%(1 N
$! K	R. ©G3M4©4,(c * +,* 2/ (S2* * /	! Ð⁄KÐ⁄<$; (:% (1 N
$!	742T * 2+(N42>* ,	! Ð⁄ Ð⁄<$; (; :" ! (1 N
5	**" (' # $<<C$5 " # $**	**. , "**
$	1 (G,(. 0* 2* 5	" Ð⁄ Ð⁄<$; ($$:%&(1 N
%	c 4©-/ S(?4,I +	" Ð⁄ Ð⁄<$; (; :& (1 N
&	@24-G	" Ð⁄ Ð⁄<$; (K:! %(FN
!	Q. T T) / -,3(4/ 5(=* / -. 2(Q* / ,* 2	" Ð⁄ Ð⁄<$; (" :$<(FN
"	7-2* T 4/ _+(F42>	" Ð⁄ Ð⁄<$; ($$:<%(FN
K	=* / -. 2(H* / ,* 2(b(©M2423	" Ð⁄ Ð⁄<$; (! :<! (FN
	=* / -. 2Æ(Q. T T) / -,3(H* / ,* 2(B-M2423	" Ð⁄ Ð⁄<$; (; :$" (1 N
	P??* 2(C4I 424(X-J* 2(,24-G	" Ð⁄ Ð⁄<$; (" :! (1 N
;	Q. T T) / -,3(H* / ,* 2	" Ð⁄Ð⁄Ð⁄<$; (:&" (FN
$<	7-2* T 4/ +(F42>	" Ð⁄Ð⁄Ð⁄<$; (%&! (FN
$$	742T * 2+(T 42>* ,	" Ð⁄Ð⁄Ð⁄<$; ($<:$&(1 N
$%	L 4/ 5(=I * ©24/ 5(4©G ,I * 2(?42>(04H-G-* +	" Ð⁄<Ð⁄<$; (! :&" (FN
$&	Y(H4/ ,(,I -/ >(. 0(4/ 3,I -/ S	" Ð⁄<Ð⁄<$; ($:%%(FN
$!	Q. T T) / -,3(H* / ,* 2	" Ð⁄<Ð⁄<$; ($$:<; (1 N
$"	6 * 0 2* +,	" Ð⁄<Ð⁄<$; ($<:$! (1 N
$K	Q. T T) / -,3(Q* / ,* 2	" Ð⁄<Ð⁄<$; (; :" ! (1 N
$	M>* (,24-G	" Ð⁄<Ð⁄<$; (; :$" (1 N
$	=* / -. 2(Q* / ,* 2	" Ð⁄<Ð⁄<$; ($%" " (1 N
$;	Q. T T) / -,3(H* / ,* 2	" Ð$; Ð⁄<$; ($$:! ! (FN
%<	Q. T T) / -,3(H* / ,* 2(,24-G[(H) 2,+[(?2-J4,* (H©M+	" Ð$; Ð⁄<$; ($<:! %(FN
%$	=* / -. 2(H* / ,* 2	" Ð$; Ð⁄<$; ($<:% (FN
%%	@24-G	" Ð$; Ð⁄<$; (; :$; (FN
%&	Q. T T) / -,3(Q* / ,* 2	" Ð$; Ð⁄<$; (:<! (FN
%!	D. / *	" Ð$; Ð⁄<$; (:" %(FN
%"	7-2* T 4/ d+	" Ð$; Ð⁄<$; (:! ! (FN
%K	D. / *	" Ð$; Ð⁄<$; (:&K(FN
%	P/ +) 2*	" Ð$; Ð⁄<$; (:&! (FN

%	=* / -. 2(H* / ,* 2	" ; E/<$; (:% (FN
%	=* / -. 2(Q* / ,* 2	" ; E/<$; (:%& (FN
&<	P/ +) 2*	" ; E/<$; (:%< (FN
&$	6 . / _,(I 4J* (4(04T -G(T * T M* 2(. 0(,I -+(4S*	" ; E/<$; (:$ (FN
&%	D. ,(+) 2*	" ; E/<$; (:$ (FN
&&	D. / *	" ; E/<$; (:$! (FN
&!	@24-G	" ; E/<$; (:$$(FN
&"	.) ,+-5* (9 . 2>.) ,(* \ ) -?T * / ,	" ; E/<$; (K:! ! (FN
&K	8	" ; E/<$; (" :" %(FN
&	M>* E9 4G-/ S(,24-G	" ; E/<$; (%% (FN
&	7-2* T 4/ +	" ; E/<$; (K:! K(1 N
&;	P/ +) 2*	" ; E/<$; (K:% (1 N
! <	1 / 3	" ; E/<$; (:$ (FN
! $	@24-G	" ; E/<$; ($<:$ (1 N
! %	c * +,* 2/ (U2* * / (1 2* 4(F42>[(7-2* T 4/ d+(F42>+	" ; E/<$; (:" %(1 N
! &	Q. T T) / -,3(H* / ,* 2	" ; E/<$; (K:! %(1 N
! !	@24-G[(?G43S2) / 5+[(+?G+I (?45(g9 -,I (S24/ 5>-5+(:(h	" ; E/<$; (! :<&(1 N
! "	@24-G	" ;KE/<$; (! :" (FN
! K	,24-G(4/ 5(+) 22) / 5-/ S(/ 4,) 24G+H* / * 23E 4M,4,[(?-H/ -H(42* 4	" ;KE/<$; (! :" ! (FN
!	c 4G-/ S(?4,I +	" ;KE/<$; (! :<$(FN
!	U42>5* / +	" ;KE/<$; ($:&&(FN
! ;	c * +,* 2/ (U2* * /	" ;KE/<$; ($:$ (FN
" <	D4	" ;KE/<$; ($:$" (FN
" $	=* / -. 2(H* / ,* 2	" ; E" /<$; (%<&(FN
" %	M>* (,24-G(0+I -/ S[(H T T) / -,3(H* / ,* 2	" ;E! E/<$; (&:! (FN
" &	=* / -. 2(H,-a* / (04H-G-* +	" ;E! E/<$; ($%! ; (FN
" !	c 4G-/ S(,24-G	" ;E&E/<$; ($$:<! (FN
" "	F-H>G M4G	" ;E&E/<$; (:&" (1 N
" K	@24-G	" ;E&E/<$; (:$&(1 N
"	L->* (,24-GE9 4G-/ S?4,I +	" ;E%E/<$; (%" %(FN
"	D. ,(+) 2*	" ;E%E/<$; ($%<&(FN
" ;	L->* (?4,I +	" ;E%E/<$; ($<:%$(1 N
K<	F4J* 5(9 4G-/ S(?4,I +	" ;E%E/<$; (" :" $(1 N
K$	7-2* T 4/ +	" ;E$E/<$; (; :&%(FN
K%	X* H(?2 S24T +[(+. T * (,24-G	" ;E$E/<$; (:" <(FN
K&	Q. T T) / -,3(H* / ,* 2(?2 S24T +(4/ 5(?42>+(?2 S24T +	" ;E$E/<$; ($%<$(FN
K!	D. ,(+) 2*	" ;E$E/<$; ($<:$K(1 N
K"	Q. T T) / -,3(Q* / ,* 2	" ;E$E/<$; ($<:<%(1 N
KK	@24-G[(7F(* J* / ,+	" ;E$E/<$; (; :% (1 N
K	P/ +) 2*	" ;E$E/<$; (; :% (1 N
K	=. T * (,24-G(4/ 5(2* H(?2 S24T +	" ;E$E/<$; (; :% (1 N

K;	/ E4	" E$Pe<$; (; :%K(1N
<	DE4	" E$Pe<$; (:" %(1N
$	@24-G	" E$Pe<$; (:" <(1N
%	* ^* 2H+* (?2 S24T +(. 0 2* 5(,I 2) SI (,I * (+* / -. 2(H* / ,* 2	" E$Pe<$; (:! ; (1N
&	@24-G	" E$Pe<$; (:$K(1N
!	=4J4/ / 4I	" E$Pe<$; (:! ! (1N
"	@24-G[(S425* / +[(?-H/ -H(42* 4+	" E$Pe<$; (:! <(1N
K	@24-G(Z(S425* / +	" E$Pe<$; (:&; (1N
	c 4G-/ SEM>-/ S(,24-G	" E$Pe<$; (:&%(1N
	P??* 2(C4I 424(X-J* 2(@24-G	" E$Pe<$; (:% (1N
;	D. / *	" E<Pe<$; (; :" %(FN
<	F4J* 5(,24-G	" E<Pe<$; (%! &(FN
$	M* / H* +	" E<Pe<$; (%! $(FN
%	L4/ 5(+I * G	" E Pe<$; (:! ! (FN
&	@24-G	" E Pe<$; (K:% (FN
!	=* / -. 2(H* / ,* 2(9 -,I (4H-J-,-* +	" E Pe<$; (%% (FN
"	L4/ 5(=I * G9 I -H (Y(M* G* J* (9 4+(4(MS(9 4+,* (. 0(2* +.) 2H* +h	" E Pe<$; (%< (FN
K	=* / -. 2(Q* / ,* 2	" E Pe<$; ($$:" ! (1N
	P/ >/ . 9 /	" E Pe<$; ($$:& (1N
	@4-G(4/ 5(+* 4,-/ S(4,(?42>+	" E Pe<$; (K:! (1N
;	c 4G-/ S(,24-G	" E Pe<$; (" :" " (1N
; <	=* / -. 2(H* / ,* 2	" E Pe<$; (:" %(FN
; $	J42-.) +(?2 S24T +	" E Pe<$; (:%$(FN
; %	B-M2423[(?42>+[(M>* (?4,I [(042T * 2+(T 42>* ,[(M42+E2* +,4) 24/ ,+[(+* / -. 2(H* / ,* 2	" E Pe<$; (K:<! (FN
; &	F* 20 2T 4/ H* (42* 4	" E Pe<$; (! :$; (FN
; !	=* / -. 2(H* / ,* 2	" E Pe<$; ($<:$ (1N
; "	=* / -. 2(H* / ,* 2	" E Pe<$; ($<:&$(FN
; K	8	" E Pe<$; ($<:<%(FN
;	D. ,(+) 2*	" E Pe<$; (; :&! (FN
;	=* / -. 2(H* / ,* 2(4/ 5(4H-J-,-* +	" E Pe<$; (; :<%(FN
; ;	7-2* T 4/ d+(?42>(+I * G* 2+	" E Pe<$; (:! ! (FN
$<<	7-2* T 4/ d+	" E Pe<$; (K:" ; (FN
$<$	=* / -. 2(Q* / ,* 2(-+(S2* 4,	" E Pe<$; (" :%K(FN
$<%	@24-G	" E Pe<$; (! :&" (FN
$<&	C4I 424(X-J* 2(@24-G	" E Pe<$; (%<&(FN
$<!	8	" E Pe<$; ($:&; (FN
$<"	Q. T T) / -,3(H* / ,* 2	" E Pe<$; ($:$ (FN
$<K	@ G-* / (H2* * >	" E Pe<$; ($:$$(FN
$<	=* / -. 2(H* / ,* 2	" E Pe<$; ($$:%$(1N
$<	=* / -. 2(Q* / ,* 2(,24-G	" E Pe<$; ($$:<" (1N
$<;	Q. T T) / -,3(Q* / ,* 2	" E Pe<$; ($$:<%(1N

$$<	L -,H -/ S(4M) ,(,4^* +	" E Ɛ%<$; ($$:<%(1 N
$$$	7-2* T 4/ _+	" E Ɛ%<$; ($$:<<(1 N
$$%	P??* 2(C4I 424(@24-G	" E Ɛ%<$; (:&<(1 N
$$&	Q. T T) / -,3(Q* / ,* 2	" ƐKƐ%<$; (; :%K(FN
$$!	=* / -. 2(Q* / ,* 2	" ƐKƐ%<$; (; :$&(FN
$$"	F42>(,24-G	" ƐKƐ%<$; (; :<&(FN
$$K	9 * +,* 2 (S2* * /	" ƐKƐ%<$; (:! ! (FN
$$	c 4G-/ SƐM>-/ S(,24-G	" ƐKƐ%<$; (:%K(FN
$$	c 4G-/ S(,24-G	" ƐKƐ%<$; (:$K(FN
$$;	c * +,* 2 (S2* * /	" ƐKƐ%<$; (:% (FN
$%<	@24-G	" ƐKƐ%<$; (:%' (FN
$%$	D4	" ƐKƐ%<$; (&:% (FN
$%%	1G6I * (/ * 9 (,24-G(0 2(9 4G-/ S(4/ 5(M>-/ S[(Q. T T) / -,3(Q* / ,* 2	" ƐKƐ%<$; (%<; (FN
$%&	D. / *	" ƐKƐ%<$; (%<&(FN
$%(	P/ H* 24-/	" ƐKƐ%<$; ($:! <(FN
$%'	/ . (-5* 4	" ƐKƐ%<$; ($:$<(FN
$%K	7-2* T 4/ d+(?42>	" ƐKƐ%<$; ($:<! (FN
$%	D. / *	" ƐKƐ%<$; ($%! K(FN
$%	D. (-5* 4	" ƐKƐ%<$; ($%%((FN
$%;	c * +,* 2 (U2* * /	! Ɛ% Ɛ%<$; (; :<%(1 N
$&<	-,(9 .) G5(M* (/ -H* (,. (I 4J* (4(S3T Ɛ9 . 2>.) ,(4,(=* / -. 2(H* / ,* 2	! Ɛ%KƐ%<$; (; :&K(1 N
$&$	F4J* 5(,24-G	! Ɛ%KƐ%<$; (:% (1 N
$&%	742T * 2+(N42>* ,	! Ɛ% Ɛ%<$; (; :" ! (1 N

' K(') * +,-. / (K(. 0(%$1 2* (,I * 2* (?42>(04H-G,-* +E4T * / -,-* +(,I 4,(42* (/ . , H) 22* / ,G3(?2 J-5* 5(-/ (3.) 2(42* 48(Y0(+. [(,* G(H) +(9 I 4,(3.) (9 .) G5(G>*

1/ +9 * 2* 5:($; (=>-??* 5:(%

5	#") ' "	. , "
$	D.	" E% E<$; (; :! &(FN
%	Q. T T) / -,3(F. . G	" E% E<$; (; :! $(1 N
&	=T 4G52(?G43(* \ ) -?T * / ,(0 2(+T 4G52(>-5+(4G. (T 43M* (4(.) ,5. . 2(?. . (0 2(,I * (. G* 2(>-5+(.) 2(>-5+ +I .) G5(/ . ,(I 4J* (,. (S. (,. (+) / ?24-2* (-0(N-55G,. / (') +,(,. (S. (+9 -T T -/ S(4/ 5(,I * (+?G4+I (?45+(42* (/ -H* 0 2(G,G5(. / * +(M) ,(. G* 2(>-5+(S* ,(M 425	" E% E<$; (:" (FN
!	=>4,* (?42>	" E% E<$; (; :" " (1 N
"	F. . G	" E' E<$; (K:! %(FN
K	F. . (-/ 5. . 2(M4+>* ,(M4G(H) 2,+[(9 4G-/ SE2) / / -/ S(,24H>	" E' E<$; (" :$%(FN
	=?G4+I (?45	" E' E<$; (! :<<(FN
	D. ,I / S(/ * 9	" E& E<$; ($$:<! (FN
;	c I * 2* (42* (,I * (?-H>G(M4G(H) 2,+(,I -+(+) 2J* 3(2* 0* 2+(,. 8	" E& E<$; (:< (FN
$<	L 4+>* ,(M4G(H) 2,+[(+9 -T T -/ S(?. . (-+>4,* (?42>	" E& E<$; (%! ! (FN
$$	F) MG-(42,(G* (+,4,) 423(4/ 5(T) 24G-	" E& E<$; (; :$K(1 N
$%	B-M* 2,3(G4/ 5(-+(-/ H2* 5-M3(.) ,54,* 5(4/ 5(I 4+(/ . (4J4-G4MG5(2* +,2 . T +	" E&&E<$; (; :! $(1 N
$&	F) MG-(?. . G	" E%%E<$; (:&K(FN
$!	F. . (-(@2 / / -+(H) 2,+[(45* \ ) 4,* (5. S(?42>	" E%%E<$; (! :% (FN
$"	U4S4(M4G-	" E%%E<$; ($<:$! (1 N
$K	B-SI ,* 5(+. H-* 2(E) ,-G3(0* G5+	" E&$E<$; (%! " (FN
$	R. G-3M4G(-,* / / -+[(H T T) / -,3(?. . G	" E&$E<$; (; :% (1 N
$	6 -+H(S. G-	" E&$E<$; (; :<$(1 N
$;	Y H2* 4+* 5(* \ ) -?T * / ,(0 2(H -G52* / (-/ (* ^-+,-/ S(?42>+[(+?G4+I (?45+[(4/ 5(H T T) / -,3(?. . G	" E<E<$; (! :&K(FN
%<	6 . S(?42>(4H,-J-,-* +	" E<E<$; ($:%&(FN
%$	F. . G	" E<E<$; ($$:$<(1 N
%%	A) ,5. . 2(?) MG-(?. . G	" E<E<$; ($<:! &(1 N
%&	1 (H T T) / -,3(?. . G(. (>* * ?(4G(4S* +(M) +3	" E<E<$; ($<:$" (1 N
%'	Q. T T) / -,3(?. . (-(=?G4+I (?45(02* T 4/ +(?42>	" E<E<$; (; :" " (1 N
%(	?. . (-(H2 ++(H) / ,23(+>-(,24-G-[(H) G,) 24G-42,+(+?4H*	" E<E<$; (; :$" (1 N
%K	N. 2* (?G43S2) / 5+(0 2(>-5+	" E<E<$; (:! ; (1 N
%	1/ . ,I * 2(+?G4+I (?42>[(4/ 5(+. T * 9 I * 2* (0 2(T 3(,. 55G52(,. (?G43	" E<E<$; ($%" " (1 N
%	=?G4+I (?45	" E-$; E<$; ($$:! ! (FN
%'	p ,I -/ S(T . 2* (U-J* (,4^(?43* 2+(4(M2* 4>	" E-$; E<$; ($<:! %(FN
&<	=>4,* (?42>	" E-$; E<$; ($<:%K(FN
&$	F. . G	" E-$; E<$; ($<:$&(FN
&%	L 4,I 2 . T +(,I 4,(42* (H-54/ (4/ 5() / GH>* 5(+. (9 * (H-4/ (4H) 4G3(4H-H* ++(,I * T	" E-$; E<$; ($<:< (FN

&&	F43(T . 2* (,4^(9 -,I (3.) (T . 2 / +(2) / / -/ S(,I * (T . / * 3888(D. (9 43(ff	" ; B/<$; (; :" " (FN
&!	Q. T T) / -,3(?. . G	" ; B/<$; (; :" <(FN
&"	Q. T T) / -,3(?. . G	" ; B/<$; (; :% (FN
&K	D* * 5(4(M4,I 2 . T (4G/ S(,I * (P??* 2(C4I 424(,24-G	" ; B/<$; (; :%<(FN
&	Q. T T) / -,3(F. . G	" ; B/<$; (:& (FN
&	D.	" ; B/<$; (:&$(FN
&;	F. . G	" ; B/<$; (:&<(FN
! <	F. . G	" ; B/<$; (:% (FN
! $	F. . G4/ 5(9 4,* 2(?42>[(-H* (+>4,-/ S(2/ >	" ; B/<$; (:<" (FN
! %	F) MG-H(?. . G4\ ) 4,-H(H* / ,* 2	" ; B/<$; (:" ! (FN
! &	=?G4+I (?45+(. 2(H T T) / -,3(?. . G	" ; B/<$; (:" &(FN
! !	F. . G	" ; B/<$; (:! ! (FN
! "	B42S* 2(=?G4+I (F45	" ; B/<$; (:&K(FN
! K	Q. T T) / -,3(?. . G	" ; B/<$; (:% (FN
!	Q. T T) / -,3E@* / (Q* / ,* 2(J. . 3+(4/ 5(U-2G(QG)Mnd(H T T) / -,3(?. . G	" ; B/<$; (:% (FN
!	N . 2* (+?G4+I (?42>+(-/ (H* / ,* 2(. 0(,. 9 /	" ; B/<$; (:%K(FN
! ;	=?G4+I (?45	" ; B/<$; (:%K(FN
" <	F. . G	" ; B/<$; (:% (FN
" $	=?G4+I (?45(9 -,I -/ (9 4G-/ S(5-+,4/ H* (. 0(,I * (T -55G(+H . . G42* 4	" ; B/<$; (:%$(FN
" %	N . 2* (04H-G-* +(4/ 5(4T * / -,-* +(,I 2) Sl .) ,(c * +,* 2((U2* * / (R* 23(G/ S(?42>(9 -,I (. ??. 2) / -,3(,. (455 T . 2* (T -/ -(?G43S2) / 5+(,I 2) Sl .) , (@ 224H* (F42>(/ * -Sl M 2 . . 5(. 0(c -/ 5+. 2(X. 45(/ * * 5+(T 4`. 2 ?42>(2* J4T ?-/ S	" ; B/<$; (:$ (FN
" &	c .) G(GJ* (,. (+* * (T . 2* (?2 S24T T -/ S(0 2($&(3* 42(. G+ (@ * 2* (2* 4G(-+/ _(4/ 3,I -/ S	" ; B/<$; (:$ (FN
"!	F. . G	" ; B/<$; (:$" (FN
" "	F. . G(+>4,* (. 2(M>* (?42> (@ -/ S+(0 2(. G* 2(>-5+<	" ; B/<$; (:$" (FN
" K	L * (T . 2* (H2* 4,-J* (4/ 5(T 43M* (S* ,(4(H42(-J4G- 2(+. T * ,I -/ S (Y_+(M 2/ S(I * 2* (,. (M* (I . / * +, (c .) G(G-* ,. (+* * (4(+* ?424,* (?G43S2) / 5(4,(02* T 4/ +(?42>(0 2(* -,I * 2(. G* 2(>-5+(. 2(3.) / S* 2(5. (,I * 3(42* ,24T ?G5(. / (* J* 23,-T * (9 * (42* (,I * 2* (1 (5* H* / ,(G42S* (+?G4+I (?45(/ . ,(G-* (,I * (. ,I * 2(. / * + (=. T * ,I -/ S H2* 4,-J* (4/ 5() +* 0) G	" ; B/<$; (:$! (FN
"	1 (?G4H* (9 I * 2* (Y-H4/ (,4>* (T 3(5. S(9 .) G(M* (04/ ,4+,-H	" ; B/<$; (:$%(FN
"	Q. T T) / -,3(+9 -T T -/ S(?. . G(5* H* / ,(-H* (+>4,-/ S(2/ >(-/ (9 -/ ,* 2	" ; B/<$; (:$$(FN
" ;	6 * 0 2* +,	" ; B/<$; (:$<(FN
K<	/ * * 5(T . 2* (. 0(,I * (9 . 2>.) ,(* \ ) -?T * / ,(-/ (T . 2* (?42>+	" ; B/<$; (K:! ! (FN
K$	?-H+G-M4-G(H) 2,+[(,* / / -+(H) 2,+[(0) G(+-a* (M4+* M4-G(5-4T . / 5	" ; B/<$; (%% (FN
K%	L * ,,* 2(2 45+(,. (S* ,(,. (?42>+	" ; B/<$; ($:! (FN
K&	=?G4+I (?45	" ; B/<$; (K:% (1 N
K!	N . 2* (+?G4+I (?42>+	" ; B/<$; ($<:$; (1 N
K"	1 ,(G4+,($(2* +,2 . T (04H-G3(4G/ S(,I * (P??* 2(C4I 424(X-J* 2(@24-G(4(+>4,* (?42>(. 2(42* 4(0 2(.) 2(,* * / +[T . 2* (GT * +,. / * (,24-G	" ; B/<$; (:" " (1 N
KK	Y(9 .) G(G-* (4(+?G4+I (?45(/ * 42(,I * (/ * 9 (+.) ,I (+,2* * ,(I . T * +	" ; B/<$; (K:! &(1 N
K	F-H+G-M4-G(H) 2,+8(R. G3M4-G(42* 4+	" ; B/<$; (! :<! (1 N
K	Q. T T) / -,3(S425* /	" ; B/<$; ($<:! K(FN
K;	1 (?. . G(9 .) G(+,-G(M* (4(/ -H* (455-,-. /	" ; B/<$; (:&! (FN

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<	L 4,I 2 . T (. / (34I 424(X-J* 2(,4G	" E$ E%<$; (:! (FN
$	A) ,5. . 2(?. . G	" E$KE%<$; (:% (FN
%	Q. T T) / -,3(F. . G	" E$KE%<$; (! :" ; (FN
&	0/ -+I -/ S(4+?I 4G(?4,I (. / (c * +,* 2((U2* * / (,. (N4-/ (=,2* * ,	" E$KE%<$; (! :" " (FN
!	1 (H-,3(?. . Gf	" E$KE%<$; (! :<%(FN
"	L 4+>* ,M4G . . ?+f(F. . G	" E$KE%<$; ($:&! (FN
K	A) ,5. . 2(?. . G	" E$KE%<$; ($:$" (FN
	Q. T T) / -,3(?. . G	" E$KE%<$; ($<:" ; (1N
	L 2/ S(M4H>(,I * (?. . ?(M4S(+,4/ 5(4/ 5(,24+I (4,(2J* 2(4/ 5(9 * +,* 2S2* * / (?42>(4/ 5(,I * (* / ,24/ H* (,. () ??* 2 34I 424(,24-G / (2J* 2(2 45 (@ 4,(+-S/ (4/ 5(?. . ?(M4S(42* 4(I 4+(M* * / (T -++-/ S(0 2(&(3* 42+	" E$" E%<$; (; :$ (FN
;	D. / *	" E$" E%<$; (; :$" (FN
<	Y(9 .) G5(G>* (4(?G43S2) / 5(-/ (=) / / 3M2 . >(/ * -SI M 2(. . 5 (Y>/ . 9 (T 3(/ * -SI M 2(2* 4H * +(.) ,(M) ,(+I * 5-5/ d(0* * G5. . 5(,I * (?42>+(5* ?42,T * / ,(9 4+(J* 23(2* H* ?,-J* (,. (,I * (-5* 4	" E$" E%<$; (K:% (FN
$	=?G4+I (?45[(. 02 45(M>-/ S[(4H-H* ++(,. (?4J* 5(?4,I (* 4+,(. 0(34I 424(2J* 2(g4M+(0* G5+h	" E$" E%<$; (%<" (FN
%	Q. T T) / -,3(?. . G	" E$! E%<$; (&! ; (FN
&	Q. T T) / -,3(?. . G5) ,5. . 2[(XABBWX(VAQeWC(XYDefff	" E$! E%<$; ($%" <(FN
!	F. . G[(I . . ?+(-/ (7-2* T 4/ d+(F42>[(H T T) / -,3E2* H(H* / ,* 2	" E$&E%<$; ($$:<" (FN
"	1 (?G43S2) / 5(-/ (=) / / 3M2 . >(?42>	" E$&E%<$; ($:! %(FN
K	L 1 = WL 1 BB(7YWB6 (7A X(1 6 PB@BWI UPW	" E$&E%<$; (; :< (1N
	F-H>G5M4G[/ G3($(H) 2(4/ 5(M4+>* ,M4G[4G9 43+(. / (-,	" E$&E%<$; (:&K(1N
	F G43S2) / 5(4,(=) / / 3M2 . >	" E$&E%<$; (:&! (1N
;	=) / / 3M2 . >(D* -SI M 2(. . 5(I 4+(4(9 . / 5* 2() G5S2* * / (+?4H* (M) ,(-+(+. 2* G3(G4H>-/ S(4(?G43S2) / 5 (@ * 2* -+(/ . (?G43S2) / 5(,. (9 4G5(,. (* 4+-G3(4/ 5(+40* G3(0 2(>-5+ (F) ,,-/ S(-/ (4(T . 5* +,(?G43S2) / 5(4, =) / / 3M2 . >(?42>(9 .) G5(+,-G[G54J* (4(,. / (. 0(S2* * / (+?4H* (1 D6 (-,(9 .) G5(M* (4(0) / (?G4H* (,. (+,. ?(0 2(4 M2* 4>(. / (,I * (I -SI G3(,2400H+* 5(M>* (,24-G	" E%E%<$; (%" " (FN
; <	A) ,5. . 2(F. . G[[g+I .) G5(M* (4,(02* T 4/ d+(?42>[(H* / ,24G3(GH4,* 5(4/ 5(-/ (9 4G5-/ S(5-+,4/ H* (0 2(T . +,h	" E%E%<$; ($<:%&(1N
; $	D.	" E%E%<$; (:" ! (1N
; %	?. . G5+(/ * * 5* 5	" E$$E%<$; ($$:" %(FN
; &	X) / / -/ S(,24H>(9 -,I (5-+,4/ H* (T * 4+) 2* T * / ,+ (c .) G5(M* (I * G30) G[0 2(T -G,423(2* +-5* / ,+(. 2(,I . +* G. >-/ S(,. (?4H* (,I * -2(2) / +	" E$$E%<$; ($$:<%(FN
; !	=?G4+I (F45(4,(7-2* T 4/ +(F42>[(F. . G	" E$$E%<$; (:! %(FN
; "	=?G4+I (?45(4,(7-2* T 4/ d+(?42>	" E$$E%<$; (:" $(FN
; K	@ / / -+(H) 2,+	" E$$E%<$; ($%<; (FN
;	D4,) 24G0* 4,) 2* (,3?* (?42>+[(GS+[(2 H>+[(HG-T M-/ S(42* 4+	" E$$E%<$; ($%<" (FN
;	@WDDY=(QAPX@=	" E$$E%<$; ($$:&; (1N
; ;	F-H>G5M4G[4/ 5(,* / / -+	" E$$E%<$; ($<:&K(1N
$<<	@ / / -+(H) 2,+	" E$$E%<$; ($<:%&(1N
$<$	=?G4+I (?45(4,(7-2* T 4/ +(?42>[(?-H>G5M4G[	" E$$E%<$; (; :% (1N
$<%	Q. T T) / -,3(F. . G	" E$$E%<$; (; :%K(1N
$<&	Q. T T) / -,3(?. . G[. 2(?* 2I 4?+(4(?. . G(A / (% 5(,I .) SI ,(4(?. . G	" E$$E%<$; (:" ! (1N
$<!	F) MG-(,* / / -+(H) 2,+	" E$$E%<$; (:" $(1N
$<"	Y(,I -/ >(9 * (I 4J* (?G5/ ,3(4/ 5(+I .) G5(9 . 2>(. / (T 4-/ ,4-/ -/ S(9 I 4,(9 * (I 4J* (,. (4(S. . 5(+,4/ 5425[(,I 4/ 455-/ S(455-,-. / 4G[42* 4+	" E$$E%<$; (:&! (1N

$<K	Y 5. . 2(YH* (X-/ >	" Ë$Ë℅<$; (:$ (1 N
$<	A) ,5. . 2(?. . G(1 / 5(,* / / -+(H) 2,+Ë?-H+>G(M4GG	" Ë$Ë℅<$; (:$ (1 N
$<	=9 -T T -/ S(?. . G(4/ 5(?-H+>G(M4GG	" Ë$Ë℅<$; (:<<(1 N
$<;	D. ,(* / .) Sl (?42>(+?4H* (0 2(,I * (S2 9 -/ S(H T T) / -,3(+-a* (9 -,I -/ (,I * (X-J* 2+(,) 2' (/ * -Sl M 2' . . 5	" Ë$Ë℅<$; (:" (1 N
$$<	@/ / / -+(H) 2,+ffff	" Ë$Ë℅<$; (:! ! (1 N
$$$	N . 2* (,24-G[(4(+I * G* 2	" Ë$Ë℅<$; (:! %(1 N
$$%	e -5+(+-a* (M4+>* ,M4GG . . ?(gG9 * 2(,I 4/ (+,4/ 5425h	" Ë$Ë℅<$; (:! $(1 N
$$&	@/ / / -+(H) 2,+(4/ 5(5-+H(S. G0	" Ë$Ë℅<$; (:% (1 N
$$!	@/ / / -+(H) 2(c -/ 5+. 2	" Ë$Ë℅<$; (:$; (1 N
$$"	L 4+>* ,M4GG(H) 2(-/ (9 . G(I . GG9	" Ë$Ë℅<$; (:$<(1 N
$$K	=-5* 9 4G>+(. / (* J* 23(+,2* * ,(-/ HG)5-/ S(R(,. (?2 ,* H,(9 4G* 2+	" Ë<Ë℅<$; (; :" &(F N
$$	@/ / / -+(H) 2,+	" Ë<Ë℅<$; (:% (F N
$$	6 -+H(S. G(H) 2+*	" Ë<Ë℅<$; (%! ! (F N
$$;	+>4,* (?42>	" Ë<Ë℅<$; (%! %(F N
$%<	X* +,2 . T +(4,(+) / 0+I (?. / 5 (N . 2* (-/ ,* 24H-J* (+?G+I (?45(4,(H / +* 2J4/ H3(H T T . / + (6 2* 4T (?42> 4/ 39 I * 2*	" Ë<Ë℅<$; ($:< (F N
$%$	c 4,* 2(0) / ,4-/ +(4/ 5(2* +,2 . T +(4G/ S(,24-G	" Ë<Ë℅<$; ($%< (1 N
$%%	Q. T T) / -,3(?. . G(4/ 5E 2(+?G+I (?45+	" Ë Ë℅<$; (:! " (F N
$%&	=4/ 5(?-,(J. GG3M4GG(%,. S* ,I * 2(-/ (4(I -(?2 0G(?42>	" Ë Ë℅<$; (K:&<(F N
$%(	Y 5. . 2(?G3(+?4H* (4/ 5(.) ,5. . 2(?. . G	" Ë Ë℅<$; (K:<%(F N
$%'	c * (H) G(2* 4GG() +* (T . 2* (,* / / -+(H) 2,+(-/ (6 * 7 . 2* +,f	" Ë Ë℅<$; (%% (F N
$%K	QANNPDY@C(FAABl(+?G+I (?45+l(?G3S2) / 5+l(?-H/ -H(42* 4+	" Ë Ë℅<$; (%< (F N
$%	,* / / -+(H) 2,+(/ . ,(,-* 5(,. (,I * (I -Sl (+H . . G-(+H * 5) G'fff	" Ë Ë℅<$; ($$:" " (1 N
$%	=?G+I (?45	" Ë Ë℅<$; ($$:& (1 N
$%	1 (+9 -T T -/ S(?. . G	" Ë Ë℅<$; (; :" %(1 N
$&<	6 . S(?. . (M4S+ (@* 2* _+(+,4,-. / +(4GG J* 2(6 * 7 . 2* +,[(M) ,(/ . ,(/ * 42(T *	" Ë Ë℅<$; (K:! (1 N
$&$	=?G+I (?45(-/ (6 * 7 . 2* +,(9 4/ ,(4/ . ,I * 2(. / * [(?. . G	" Ë Ë℅<$; (" :" K(1 N
$&%	F 4J* 5(,24-G[(+-5* 9 4G>+(-/ (+H . . G(42* 4+[(* 4+3(4H-H* ++(,. (,24-G(. / (,I * (. ,I * 2(+-5* (. 0(,. 9 /	" Ë Ë℅<$; (:&K(F N
$&&	F. . G	" Ë Ë℅<$; (:%<(F N
$&!	4(+9 -T T -/ S(?. . G	" Ë Ë℅<$; (" :! (F N
$&"	=?G+I (?45ËH T T) / -,3(?. . G	" Ë Ë℅<$; (! :% (F N
$&K	@/ / / -+(H) 2,+[(M4+>* ,M4GG(H) 2,+(-/ (H / +* 2J4/ H3(F42>	" Ë Ë℅<$; ($<:$K(1 N
$&	6 -++4?. -/ ,* 5(,I 4,(T . +,(. 0(. ,I * 2(4H-J-,* +(0 2(>-5+(9 * 2* (S. / * (,I -+(+) T T * 2(I * 425(-,(9 4+(M* H4) +* (. 0 H4T ?+(4,(02* T 4/ +	" Ë Ë℅<$; (:&K(1 N
$&	F. . G	" Ë Ë℅<$; ($%< (1 N
$&;	N . 2* (?-H* -H(,4MG+(9 -,I (+I 45* (4,(0 2* T 4/ _+(4/ 5(4(+4/ 5M ^(0 2(,I * (>-5+	" Ë Ë℅<$; ($<:&K(F N
$! <	A) ,5. . 2(F. . G	" Ë Ë℅<$; (; :! K(F N
$! $	A) ,5. . 2(H T T) / -,3(F. . G	" Ë Ë℅<$; (:! (F N
$! %	1 (H T T) / -,3(?. . G	" Ë Ë℅<$; (:! " (F N
$! &	Q. T T) / -,3(F. . G	" Ë Ë℅<$; (:<<(F N
$! !	=9 -T T -/ S(0 2(4G(4S* +	" Ë Ë℅<$; (" :%K(F N

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$! "	L 4+>* ,M4-GH) 2,(4,(02* T 4/ +(?42>	" E E%<$; (! :&" (FN
$! K	F. . G	" E E%<$; (%<! (FN
$!	7-,/ * ++(?42>	" E E%<$; ($:! <(FN
$!	X* H2* 4,-. / (H* / ,* 2	" E E%<$; ($:$&(FN
$! ;	F. . G	" E E%<$; ($%" %(FN
$" <	Q. T T) / -,3(Q* / ,* 2(9 -,I (-/ 5. . 2(H) 2,+	" E E%<$; ($%&" (FN
$" $	D. ,(49 42* (. 0(4/ 3	" E E%<$; ($%&%(FN
$" %	Q. T T) / -,3(?. . G	" E E%<$; ($$:" K(1 N
$" &	@ * (?42>(-/ (.) 2(42* 4(-+(,. . (+T 4-G0 2(,I * (/) T M* 2(. 0(>-5+(-/ (,I * (/ * -SI M 2 . . 5:(H / +* 2J4/ H3(?-GH* @ * (?42>(-+(/ . ,(+) 0H-* / ,(0 2(. G5* 2(>-5+(/ . 2(3.) / S* 2(>-5+(5) * (,. (+?4H* (4/ 5(* \ ) -?T * / , (@ * 2* (42* * J* / (T . 2* (I .) +* +(S. -/ S() ?(M) ,(3.) / S* 2(>-5+(4/ 5(,* * / +(I 4J* (/ . (?-GH* (,. (S.	" E E%<$; ($$:%1 (1 N
$" !	Q. T T) / -,3(F. . G	" E E%<$; ($$:<K(1 N
$" "	D. (?-G3S2) / 5(-/ (2* +-5* / ,-4-G42* 4(M* ,9 * * / (,I * (I -SI (+H . . G4/ 5(V. G,T (1 (S2* 4,(?-GH* (0 2(. / * (-+(. / ,I * (+H . . G-G4/ 5(/ * 42(,I * (02 / ,(* / ,24/ H* (,. (,I * (I -SI (+H . . G(9 -,I (4H-H* ++(. 0(. 0(L 2) / +En* 0* 2+. / Q.) G5(I 4J* () +* (5) 2/ S(3.) ,I (0 . ,M4-G-S4T * +(0 2(+-MG S+(4+(9 * G-	" E E%<$; ($$:<%(1 N
$" K	FAAB(=e 1 @WF 1 Xe	" E E%<$; ($$:<%(1 N
$"	+?-G+I (?45+(4/ 5() ?54,* (?-G3S2) / 5(* \ ) -?T * / ,(-/ (* 4H (?42>	" E E%<$; ($<:%$(1 N
$"	+?-G+I (?45	" E E%<$; (; :" K(1 N
$" ;	Q. T T) / -,3(?. . G	" E E%<$; (:" (1 N
$K<	1 0* 2(Y / . J4,-. / (M25S* (-+(H T ?G,* [(,24-G-(G >-/ S(,. (5. 9 / ,. 9 / (42* 4(+. (9 * (5. / d(I 4J* (,. (M>* (. / (QR Q. T T) / -,3(?. . G	" E E%<$; (:&&(1 N
K	YH* (+>4,-/ S(-/ (V. G-/ 5(7-* G5+(E+>4,* (?42>	" E E%<$; (" :" ; (1 N
$K%	F. . G0 2(,I * (>-5+	" E E%<$; (" :$&(1 N
$K&	A) ,5. . 2(?. . G	" EKE%<$; (; :" ! (FN
$K!	Q. T T) / -,3(?. . G	" EKE%<$; (; :&; (FN
$K"	L 4+>* ,M4-GH) 2,+	" EKE%<$; (; :&$(FN
$KK	Y(9 .) G5(M* (/ -H* (,. (I 4J* (4(H T T) / -,3(?. . G	" EKE%<$; (; :% (FN
$K	Q. T T) / -,3(F. . G	" EKE%<$; (; :$! (FN
$K	N . 2* (H / / * H* 5(,24-G-(9 .) G5(M* (4??2* H4,* 5(4/ 5(T . 2* (9 -,I (/ 4,) 24-G+) 24H* +	" EKE%<$; (:" &(FN
$K;	F. . G0(+?-G+I (?45[(M4,I 2 . T +(,I 4,(. ?* / (4,(,I * (+,42(. 0(X* H(+?. 2,+ff	" EKE%<$; (:&$(FN
$ <	F-H+>G5M4-GH) 2,+(4/ 5(?. 24G7. ,,-* +	" EKE%<$; (:% (FN
$ $	Q. T T) / -,3(?. . G	" EKE%<$; (:$ (FN
$ %	N . 2* (?. 24MG5(2* +,2 . T +(4G/ S(9 4G-/ S(?4,I +	" EKE%<$; (:$$(FN
$ &	D. (T . 2* (M>* (,24-Gff	" EKE%<$; (:% (FN
$!	X. M ,(5) * G- S(42* / 4[(. ?* / (0 . ,M4-G0* G5[(+. H-H* 2(0* G5+[(-G42S* (?-G3S2) / 5[(* ,H	" EKE%<$; (:%&(FN
$ "	C* +	" EKE%<$; (K! (FN
$ K	F42>+(9 -,I (/ . / (2* +* 2J4MG5(+I * G- 2+(42* (/ * * 5* 5[(7-2* T 4/ d+(?42>(9 4+(04/ ,4+,-H() / ,-G9 * (2* 4G-a* 5(,I * +I * G- 2(-+(2* +* 2J* 5(4G- . +,(* J* 23(,-T * (9 * (9 4G-(5. 9 / (,I * 2* (4/ 5(,I * (?42>(-+(0G. 5* 5(9 -,I (?* . ?G(02 T ,I * (2* +* 2J* 5(?42,3	" EKE%<$; (&:! (FN
$	@ / / -+	" EKE%<$; (&! &(FN
$	=>4,* (?42>[(+?-G+I (?45(T . 2* (M4+* M4-G4/ 5(0 . ,M4-G0* G5+	" EKE%<$; (&:% (FN
$;	F. . G	" EKE%<$; (%% (FN
$ <	F-G3S2) / 5(4,(=) / / 3M2 . >	" EKE%<$; (%<" (FN

$ $	7-+I -/ S	" EKE%<$; (%<! (FN
$ %	L->* (F4,I +	" EKE%<$; (%<! (FN
$ &	F@43(+,2) H) 2* (-/ (,I * (+) / / 3M2 . >(?42>(S2* * / (+?4H*	" EKE%<$; ($:" K(FN
$!	D. ,(4@E?42>+(I 4J* (M4,I 2 . T (04HG-* + (1 / (-H* (2/ >(-/ (6 * 7 . 2* +,(4/ 5(c -/ 5+. 2(M ,I (9 .) @5(M* (/ -H*	" EKE%<$; ($:! $(FN
$ "	S. @(H) 2+*	" EKE%<$; ($:$$(FN
$ K	D* * 5(T . 2* (5-S(+,4,-. / +(. / (,24-G (L 4,I 2 . T +(. / (,I * (,24-G	" EKE%<$; ($%! ; (FN
$	L-HB-H@(2* ?4-2(+,4,-. /	" EKE%<$; ($%! (FN
$	Y(9 .) @5(GJ* (,* / / -+[(?-H+>@(M4@E(M4+>* ,M4@E(M>* E9 4@>-/ S(?4,I + (?@4H* +(,I 4,(45) @+(H4/ () +*	" EKE%<$; ($%! (FN
$;	=>4,* (?42>[(?) M@H(.) ,5. . 2(?. . @E(+) T T * 2(2* H(?-H() ?(M4+* M4@E(0 2(>-5+	" EKE%<$; ($%&%(FN
$; <	@? / / -+(H) 2+ (F@43(?@4H* +(0 2(+H . . @4S* (>-5+	" EKE%<$; ($%&$(FN
$; $	Q. T T) / -,3(?. . @E(+?@4+I (?45[(M4+>* ,M4@E(H) 2,(9 -,I (4H,) 4@I . . ?+(-/ +,4@@5	" EKE%<$; ($%% (FN
$; %	YT ?2 J* T * / ,+(,. (6 4I @(?42>(* \ ) -?T * / ,E(G,+(. 0(+?4H* (M) ,(/ . ,(T) H (0 2(>-5+(-/ (,I * (42* 4[(9 I . (42* / d 4@@9 * 5(,. () +* (+H . . @(* \ ) -?T * / ,(5) 2/ S(,I * (543	" EKE%<$; ($%%&(FN
$; &	6 . S(?42>	" EKE%<$; ($%%%(FN
$; !	A 0@(+,2* * ,(?42>-/ S	" EKE%<$; ($%$! (FN
$; "	F) M@H(F. . G	" EKE%<$; ($%$<(FN
$; K	1 2H * 23(X4/ S*	" EKE%<$; ($%<" (FN
$;	,* / / -+(H) 2,+[(5-+H(S. @E(?. . G	! E%KE%<$; ($<:% (1N
$;	=?@4+I (?45(4,(02* T 4/ _+(?42> (F-H+>@(M4@E4,(02* T 4/ _+(?42>	! E%KE%<$; (:&<(1N

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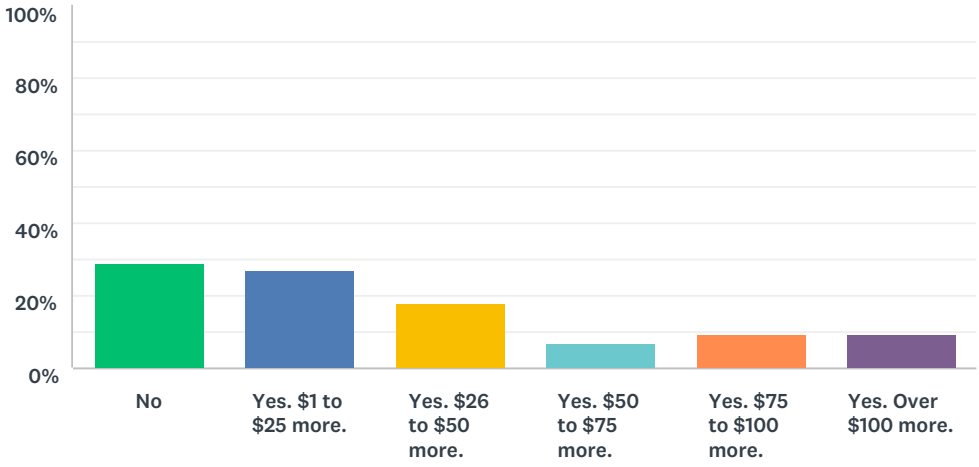
' (') * +,-. / ((. 0(%$c .) 5(3.) (M* (9 -G S(,. (?43(T . 2* (-/ (,4^* +(. 2() +* 2 0* * +(0 2(,I 4,(04H-G;3E+* 2J-H* 8(Y0(3* +[(I . 9 (T) H (T . 2* (9 .) 5(3.) (M* (9 -G S ,. (?43(?* 2(3* 42 8

1 / +9 * 2* 5:(&KK(=>-??* 5:(K$!



! "# $%&' (%"	#") ' "	
D.	% ; K#	$<K
C* + (q$(,. (q%' (T . 2*	% <" #	; ;
C* + (q%K(,. (q" <(T . 2*	$ <&#	KK
C* + (q" <(,. (q " (T . 2*	K &#	%'
C* + (q " (,. (q$<<(T . 2*	; " K#	&"
C* + (AJ* 2(q$<<(T . 2* (	; " K#	&"
@A @J B		&KK

! (E $

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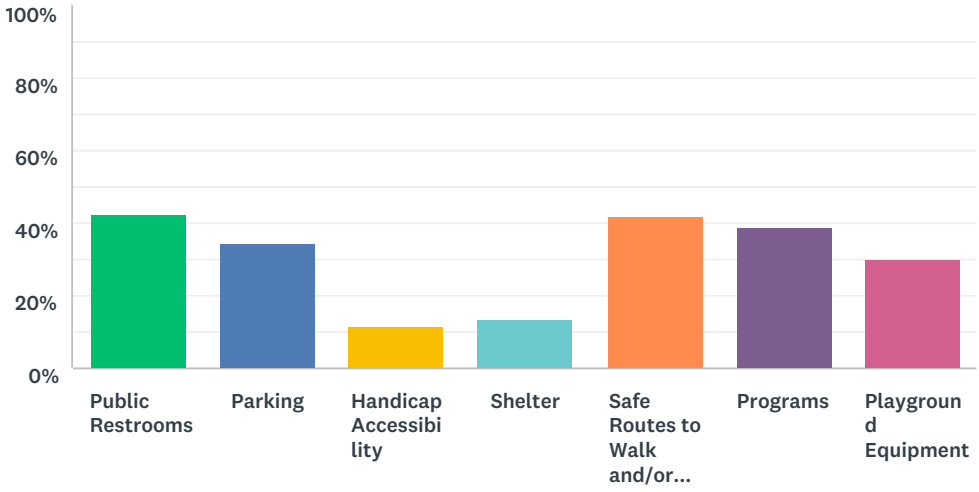
' (') * +,-. / ((. 0(%$F G4+* (-/ 5-H4,* (9 I -H (-0(4/ 3(. 0(,I * (0 G-9 -/ S H T ?. / * / ,+(4,(* ^-+,-/ S(?42>(04H-G-* +(-/ (6 * 7 . 2* +,(/ * * 5(-T ?2 J* T * / , =* G-H,(4G-(I 4,(4??3

1 / +9 * 2* 5:(% K(=>-??* 5:(&!



! "#$%&' (%"	#") ' "	
F) M-H(X* +,2 . T +	! %K #	$<"
F42>-/ S	&! ""#	"
V4/ 5-H4?(1 H-I* ++-M-G3	$$ & #	%
=I * G-* 2	$&! $#	&&
=40* (X.) ,* +(,. (c 4-G(4/ 5E 2(L->* (,. (,I * (74-H-G3	! $ #	$<&
F2 S24T +	&; <%#	; K
F-43S2) / 5(W) -?T * / ,	&< < #	!
@ ,4-G(X* +?. / 5* / ,+:(% K		(

' ; (F G4+* (-/ 5-H4,* (,I * (?42>(GH4,-. / +(4/ 5(+) ??. 2(H T ?. / * / ,+(,I 4,(/ * * 5 -T ?2 J* T * / ,(M G9

1 / +9 * 2 5:($%$(=>-??* 5:(" ;

5	#") ' "	. , "
$	F42>(M3(H T T) / -,3(S425* / +	" %, %<$; (; :! " (FN
%	C. 2>,. 9 / (2 45(?42>	" %, %<$; (; :< (FN
&	c I 3(-+(,I * (I ->-/ S M>-/ S(,24-G4G/ S(,I * (C4I 424(X-J* 2(/ * 42(X* -S+,45(4/ 5(c (V. GT (/ * J* 2(?4J* 58 R-G S* (9 4+,* +(,4^?43* 2(T . / * 3(. / (,I * -2(i ?* ,i (?2 `* H,+(4/ 5(,I * / (T . J* +(. / ,. (,I * (/ * ^,(?2 `* H, 9 -,I .) ,(H T ?G,-/ S(9 I 4,(-+(4G2* 453(+,42,* 5	" %, %<$; (! :<K(FN
"	c * (/ * * 5(T . 2* (+-5* 9 4G+(4/ 5(9 4G-/ S(?4,I + (1 / (4/ +9 * 2(0 2(?2* ,* * / (4/ 5(,* * / +(H) G(M* (T . 2* ?2 S24T T -/ S(0 2(4H,J-,-* +(,I * 3(H) G(5. (=I * G* 2+[(9 * (`) +,(5. / q(I 4J* (,I * T (4,(4G,I * (?42>+ (c .) G M* (/ -H* (,. (+* * (T . 2*	" %, %<$; (; :" ; (1 N
K	N . / * 3(/ * * 5+(,. (M* () +* 5(+T 42,* 2	" %K%<$; ($<:$$(FN
	Y(T 4>* +(/ . (+* / +* (,. (I 4J* (2) / . 0(02 T (7-2* +,. / * (0G9 -/ S(-/ ,. (,I * (5. S(?42> (c I 3(/ . ,(`) +,(T 4>* (-, / 422 9 * 2(2SI ,(,I * 2* 8	" %' %<$; (K:! " (FN
	6 . S(?42>[(?42>-/ S M4-H* ++(,. (S2* * / (+?4H* E9 4G>-/ S(?4,I (M3(/ 4,) 2* (42* (. / (/ * 9 (D. 2I ,. 9 / (+* H,-. / (. 0 2 45(M3(4?42,T * / ,+	" %' %<$; (" :$! (FN
;	=. T * (?42>+(4/ 5(04-H-G-* +(5. (/ . ,(I 4J* (+-5* 9 4G>+(. 2(,24-G(,. (4H-H* ++(,I * T (+40* G3(9 I * / 9 4G>-/ S M>-/ S	" %% %<$; (%! K(FN
$<	=40* 2(2) ,* +(,. (4H-H* ++(?42>+(M3(0 . ,(. 2(M>* (c -G M* (M* ,,* 2(9 I * / (Y / . J4,-. / (L-25S* (H T * +	" %% %<$; (" :" " (1 N
$$	B-M* 2,3(B4/ 5	" %&%<$; (; :! $(1 N
$%	=-5* 9 4G>+(0 2(>-5+(,. (S* ,(,. (,I * (?42>+	" %%%<$; (:& (FN
$&	Q. / +* 2J4/ H3(Q. T T . / +(?42>(I 4+(/ . (?42>-/ S(4/ 5(4(M) +3(+?G+I (?45	" %%%<$; ($<:$! (1 N
$!	F42>-/ S(. / G(. / (. / * (* / 5(. 0(4(H / +* 2J4/ H3(,24-G(5. * +/ q(T 4>* (T) H (+* / +* (,. (T * (F* . ?G(42* (. 0* / ?. . 2G(?42>* 5(. / (+-5* (+,2* * ,(* / ,24/ H* +	" %$%<$; (%! (FN
$"	Y(9 .) G(G>* (,. (+* * (M>* +(/ . ,(4G9 * 5(. / (,I * (+-5* 9 4G>+(-/ (,I * (?42>+ (c * (9 * 2* (4,(4(H / H* 2,(G+,(3* 42 4/ 5(4G . +,(S. ,(I -,(M3(>-5+(. / (M>* + (Y (5-+4M5(4/ 5(0 2(T * (,I -+(-+(54/ S* 2) +	" %<%<$; (" :%K(FN
$K	@* (?. H>* ,(?42>(-/ (,I * (V* 2,4S* (U425* / +(/ * -S M 2 . . 5(H) G() +* (T . 2* (* \ ) -?T * / ,	" %<%<$; (! :&K(FN
$	6 . / q() +* (?42>(* ^H* ?,(0 2(. H-H4+-. / 4G M>* (25* (. / (,I * (,24-G	" %<%<$; ($:%K(FN
$	7-2* T 4/ q+(?42>(4/ 5(H / +* 2J4/ H3(/ * * 5(?42>-/ S	" %<%<$; ($$:$<(1 N
$;	L->* (?4,I (. 0(+-5* 9 4G>(. / (X-J* 29 . . 5(L * / 5(. 2(=.) ,I (=,2* * ,(gM* ,9 * * / (=) / / 3M2 . >(4/ 5(X-J* 2(X. 45h 9 .) G(M* (S2* 4,[(4/ 5(M>* (?4,I (. / (I -SI 9 43(R(gY?4++(4(G,(. 0(?* . ?G(9 4G>-/ S(. 2(M>-/ S(4G/ S(R[(4/ 5(-, +H42* +(T * fh	" %<%<$; ($<:! " (1 N
%<	B-M* 2,3(G4/ 5(?42>(M4,I 2 . T +(40 9 43+(GH>* 5f	" %<%<$; ($<:! ! (1 N
%$	=40* (2) ,* (. / (I 9 3(R	" %<%<$; ($<:! %(1 N
%%	1 G	" %<%<$; ($<:$" (1 N
%&	D. / * (. 0(,I * (?42>(* \ ) -?T * / ,(4,(7-2* T 4/ +(. 2(c * +,* 2 (U2* * / (?42>(42* (1 6 1 (4H-H* ++-M G	" %<%<$; ($%" (1 N
%(	U-T T * (54,(=FB1 ====VVVV(F1 6 (FBW =W(Y D(7 X W N 1 D+(F42>ffff	" %E; %<$; ($$:! " (FN
%'	') -,(+?* / 5-/ S(T . / * 3	" %E; %<$; ($<:! &(FN
%K	1 55-,-. / 4G \ ) -?T * / ,(. 2(?42>(/ * * 5* 5(-/ (Q. / +* 2J4/ H3(/ * -SI M 2 . . 5(9 -,I (,I * (/) T M* 2(. 0(>-5+(G-/ S -/ (,I * (/ * -SI M 2 . . 5(/ . 9 (A 0* / (9 I * / (6 43H42* +(J-+-,(,I * (+?G+I (?45(-/ (,I * (+) T T * 2(,I * 2* (-+(/ . +?4H* (0 2(,I * (2* +-5* / ,+(. 0(,I * (/ * -SI M 2 . . 5(,. (?G3	" %E; %<$; ($<:& (FN

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%	X* +,2 . T +(42* (GH►* 5(4G, (D. ,(4G,(. 0(,. 55©2(?2 S24T +	"ËŠ; Ë℅<$; ($<:% (FN
%	X* +,(2 . T +[(2* +,(2 . T +[(2* +,(2 . T +(ffff	"ËŠ; Ë℅<$; (; :" K(FN
%,	L* ,,* 2(GSl ,-/ S(4,(5) +>(,. (02* T 4/ d+	"ËŠ; Ë℅<$; (:&$(FN
&<	e-5+(42* (S* ,,-/ S(?-H►* 5(. / (4,(02* T 4/ _+(?42>[(,I * 2* (/ * * 5+(,. (M* (H4T * 24_+(. 2(+. T * ,I -/ S(+* ,() ?	"ËŠ; Ë℅<$; (:$%(FN
&$	F42>-/ S(4,(7-2* T 4/ d+(-+(GT -,* 5 (A	"ËŠ; Ë℅<$; (:<K(FN
&%	B. J* (,. (I 4J* (T . 2* (+?G+I (?45+ (1 G. [(T . 2* (543(,-T * (?2 S24T T -/ S(0 2(>-5+(,I 4,(I 4J* / _(+,42,* 5 +H . . (©3* ,	"ËŠ; Ë℅<$; (:" "(FN
&&	c * (`. -/ * 5(+. H-H* 2(0 2(T 3(+. / (4/ 5(I 4J* (4(I 425(,-T * (0/ 5-/ S(?42>-/ S (V* d+(3.) / S(2-Sl ,(// . 9 [(M) ,(,I * +. H-H* 2(0* ©+(9 -©(* * 5(-T ?2 J* T * / ,(0 2(. ©* 2(4S* +	"ËŠ; Ë℅<$; (:&; (FN
&I	L->* (?4,I (M* I -/ 5(N 4H►(B4/ * (-+(H / +,4/ ,©3(0G. 5* 5[(4(M25S* (/ * * 5+(,. (M* (M) -G(,I * 2*	"ËŠ; Ë℅<$; (:& (FN
&"	1H►* 2(?42>9 43(I 4+(/ . (+-5* 9 4©+	"ËŠ; Ë℅<$; (:% (FN
&K	B-M* 2,3(/ * * 5+(4(M4,I 2 . T	"ËŠ; Ë℅<$; (:%$(FN
&	@ 224H* (?42>(. 0(c -/ 5+. 2(X. 45(4/ 5(F. 24S* (X. 45 [(c * +,* 2/ (U2* * /	"ËŠ; Ë℅<$; (:$; (FN
&	c .) ©(GJ* (,. (+* * (T . 2* (?2 S24T T -/ S(0 2($©&(3* 42(. ©+ (F42* / ,+(. 0(>-5+(,I * +* (4S* (9 .) ©(GJ* (. ?* / S3T [(,) T M©- S[(2* 4©3(4/ 3,I -/ S(,. (>* * ?(,I * T (* / S4S* 5	"ËŠ; Ë℅<$; (:$ (FN
&;	D	"ËŠ; Ë℅<$; (:$ (FN
! <	@* 3(42* (4©(©(. 2(M 2-/ S (A 2(,. . (+T 4©(I * (MSS* 2(>-5+(,4>* (. J* 2(4/ 5(/ . ,(4©9 (3.) / S(>-5+(,. (?©43	"ËŠ; Ë℅<$; (:$" (FN
! $	X-J* 2+(@ 2/ (7-,/ * ++(F42>(/ * * 5+(4(2* +,2 . T (D* * 5(T . 2* (J42* ,3(. 0(45) G(0,/ * ++(H©+* +	"ËŠ; Ë℅<$; (K:! ; (FN
! %	X. 45+(,. (S* ,(,. (?42>+ (c * (I 4J* (9 4+,* 5(* / .) Sl (T . / * 3(2* T . J-/ S(+. 0(M4©(5-4T . / 5+(,I 4,(9 * 2* 4©2* 453(T . 2* (,I 4/ (+) 00H* / ,(I . 9 (4M) ,(9 * (?) ,(.) 2(T . / * 3(,. 9 425+(2 45+	"ËŠ; Ë℅<$; ($:! (FN
! &	7-2* T 4/ +(?42>(/ * * 5+(M* ,,* 2(+) ?* 2J-+-. / (M* H4) +* (. 0(MSS* 2(>-5+(4/ 5(M) ©3-/ S	"ËŠ; Ë℅<$; (K:&<(1 N	
! !	155(GT * +,. / * (Ë^(* ^-+,-/ S(c * +,* 2/ (U2* * / (,24-©(M* ,9 * * / (A ©(Y 5-4/ (Z(N 4-/ (=,EQR (N 43M* (I 4J* 455-,-. / 4©GT * +,. / * (,24-G(,. (?2 J-5* (+40* 2(42* 4+(0 2(,I . +* (,I 4,(9 4©((W^-+,-/ S(?4J* 5(,24-G(H4/ (M* I 4a425.) +(4+(M►* 2+(,* / 5(,. (a-?(5. 9 / (,I * T (9 E/ . (H4) ,-. / (,. (?* 5* +,24/ + (1 (2* +,2 . T (I 4©9 43(. / ,I * (P??* 2(C4I 424(X-J* 2(@24-©9 .) ©(5(5* 0/ -,* G(M* (9 * GI T *	"ËŠ Ë℅<$; (! :<" (1 N S2 9 +	
! "	Y+* * (,I * (T 4-/ (H 4©G-/ S* (,. (M* (455-/ S(T . 2* (M4/ 59 -5,I (,. (?42>+(Z(04H-G-* +(4+(,I * (42* 4d+(?. ?) ©4,-. / S2 9 +	"ËŠ Ë℅<$; (! :<" (1 N
! K	Y(4T (5* J4+,4,* 5(-/ (,I * (5* +,2) H-. / (. 0(02* T 4/ d+(?42>(-/ (5* 0 2* +, (@* (,2* * +(I 4J* (M* * / (,I * 2* (+-/ H* (Y 9 4+(M 2/ (@* (M4+>* ,M4©(. . ?+(+,-©(4J* (/ . (/ * ,+(4/ 5(,I * (?©43S2) / 5(-+(?4,I * ,-H(H / +-5* 2/ S(9 I 4, 9 4+(G+,[(T 3(>-5+(T -++(,I * (02* (,2) H► (@* (M4,I 2 . T (42* (S2* 4,(M) ,(Y(9 .) ©(I 4J* (>* ?,(,I * (. ©(M4,I 2 . T +(. 2() +* 5(4(?. 2,+(?. .,,3(,. (I 4J* (/ . ,(G+,(4©(I * (I -+,. 23(. 2(?2* J-.) +(?©43(* \ ) -?T * / ,(9 I -H 9 4+(M* ,,* 2(@* (+I * G* 2(-+(I) S* (4/ 5(-/ (/ * H* ++423(Y,I .) Sl ,(,I * 3(9 * 2* (S* ,,-/ S(4(+?©4+I (?45(4/ 5(,I 4, 9 .) ©(I 4J* (M* * / (9 . 2,I (-, (W,J* 23. / * (Y>/ . 9 (9 -,I (>-5+(0* G-(,I * (+4T *	"ËŠ Ë℅<$; (! :" (FN	
!	N . 2* (?) M©-(2* +,2 . T +(4/ 5(9 4,* 2(0) / ,4-/ +(4/ 5(+I * G* 2+(4G/ S(P??* 2(C4I 424(X-J* 2(@24-G	"ËŠK Ë℅<$; (! :" (FN
!	B-M* 2,3©4/ 5	"ËŠK Ë℅<$; ($<:" ; (1 N
! ;	@* (M►* (?4,I (/ * * 5+(,. (S. (4©(I * (9 43(5. 9 / (X-J* 2(2 45(,. (c -/ 5+. 2	"Ë$" Ë℅<$; (; :$; (FN
" <	=) / / 3M2 . >	"Ë$" Ë℅<$; (K:% (FN
" $	=T 4©G2(/ * -Sl M 2 . . 5(?42>+	"Ë$" Ë℅<$; (%<" (FN
" %	B-M* 2,3(B4/ 5	"Ë$! Ë℅<$; (%" <(FN
" &	A 00* 2(2* H2* 4,-. / (?2 S24T +(5) 2/ S(,-T * +(9 I * 2* (?42* / ,+(9 I . (9 . 2>(H4/ (S* ,(,I * -2(H -©52* / (,. (,I * 4H,J-,-* +	"Ë$&Ë℅<$; ($$:<K(FN
"!	F©G4+* (M* (H S/ -a4/ ,(. 0(I . 9 (T 4/ 3(+?©4+I (?45+(3.) (42* (M) -©-/ S (A) 2(9 4,* 2(M©G(9 * / ,() ?(K<# f Q.) ?©G(,I 4,(9 -,I (-/ H2* 4+* 5(?2 ?* 23(,4^* +(4/ 5(6 * 0 2* +,(-+(S* ,,-/ S(,. . (* ^?* / +-J* (0 2(T -55©G(-/ H T * 04T -G* +f	"Ë$&Ë℅<$; (; :% (FN
" "	=) / / 3M2 . >(F42>	"Ë$&Ë℅<$; ($:! &(FN

" K	@ * (?4J* 5(?4,I 9 43(5. 9 / (2J* 2(2 45(9 4+(4(S2* 4,(455-,-. / [(M) ,(9 I 3(. / (* 42I (9 4+(4(+* H / 5(. / * M) -G(. / (,I * (. ,I * 2(+-5* (. 0(,I * (+,2* * ,8(c I 4,(4(,2* T * / 5.) +(9 4+,* (. 0(2* +.) 2-H* + (Y0(Y9 4+(. / * (. 0(,I * ?2 ?* 2 3(. 9 / * 2+(9 I . (I 45(,I * -2(3425(+,. G / (02 T (,I * T (Y9 .) G5(M* (.) ,+-5* (J-G8S* (I 4G85* T 4/ 5-/ S(T 3 G/ 5(M4H>f	" E&E%<$; (:! <(1 N
"	@ * (2 45+(-/ (5* 0 2* +,(42* (,* 22MG(4/ 5(/ * 4203() / +40* (,. (25* (4(/ -H* (M>* (1 55(,24-G(,. (* 4H (?42>(4/ 5 0^(.) 2(2 45+	" E&E%<$; (:& (1 N
"	D* * 5(+40* (M>* E9 4G-/ S(,24-G / (c -/ 5+. 2(2 45(02 T (H / +* 2J4/ H3(?42>(,24-G. (c -/ 5+. 2(+H . . G	" E%E%<$; (:! (FN
" ;	B-M* 2,3(G4/ 5(/ * * 5+(4(M* ,,* 2(+I * G* 2[(?G43S2) / 5(* \ ) -?T * / ,(4/ 5(2* +,2 . T +	" E%E%<$; ($:&K(FN
K<	1 5) G(?2 S24T +	" E%E%<$; ($%<&(FN
K$	6 . S(?42>(H) G5() +* (MSS* 2(,2* * +	" E%E%<$; ($%<<(FN
K%	N . 2* (* J* / -/ S(4/ 5(40* 2(+H . . G2 2 S24T +	" E%E%<$; (; :<$(1 N
K&	=I 45* (0 2(?G43S2) / 5+[(,24-GT ?2 J* T * / ,+(-/ (9 * +,* 2/ (S2* * /	" E$E%<$; (:" &(FN
K!	@ >* / (Q2* * >(F42>(-+(5-+S) +,-/ S (7) G(6 0(52) S() +* 2+(4/ 5(I . T * G++ (1 T * / -,-* +(42* (,* 22MG(4/ 5(2) / 5. 9 /	" E$E%<$; ($:$$(FN
K"	N4/ 3(5. (/ . ,(I 4J* (2* +,2 . T +	" E$E%<$; ($%$<(FN
KK	N-55G(+H . . G2 2 S24T T -/ S	" E$E%<$; ($%<K(FN
K	02* T 4/ +(?42>	" E$E%<$; (; :" ! (1 N
K	c I 4,(4M) ,(+* H) 2,38(@ (* / +) 2* (9 * (42* (M2/ S-/ S(,. (GSI ,(,I * (J4/ 54G-T (4/ 5(9 I . (-+(2* +?. / +-MG (1 + 9 * G64+(4/ 3(0SI ,+(,I 4,(T 43(I 4??* /	" E$E%<$; (; :&%(1 N
K;	@ * (?G43S2) / 5(* \ ) -?T * / ,(4,(7-2* T 4/ +(?42>(+I .) G5(I 4J* (4/ (49 / -/ S(. J* 2(-, (@ * 2* (42* (,9 . (?42,+(. 0 ,I * (9 * +,* 2/ (S2* * / (,24-G,I 4,(42* (+,-G6) / 0/ -+I * 5	" E$E%<$; (; :&<(1 N
<	@ * (* / 5(. 0(=.) ,I (=,(-+(G4H>-/ S(4(+-5* 9 4G3(,. (S* ,(,. (,I * (,24-G+3+,* T	" E$E%<$; (:" %(1 N
$	D. / * (2* 4G8[(42* 4+(42* (/ -H* [(M) ,(9 .) G5(+43(G,(,I * (42* 4+(,I 4,(42* (T . 9 * 5(S2 9 (-/ ,. (T . 2* (/ 4,) 24G 42* 4+ (W^4T ?G(H) ,,-/ S(4G/ S(M>* (,24-G(. 2(?. / 5+	" E$E%<$; (:&K(1 N
%	?42>-/ S(4,(Q. / +* 2J4/ H3(F42>(-+(4(/ -SI ,T 42*	" E$E%<$; (:! K(1 N
&	6 4I (G?42>(I 4+(/ . ,(I 45(4/ 3() ?54,* +(M* 3. / 5(,I * (455-,-. / (. 0(4(9 4G39 43[(-,(/ * * 5+(T . 2* (4T * / -,-* + 1G. [(,I * (,24-G, / (D. 2I ,. 9 / * (/ * * 5+(,. (M* (H / / * H,* 5(,. (. ,I * 2(,24-G(J-4(V9 3(R(4/ 5(J-4(,I * (G/ S,I (. 0 D. 2I ,. 9 / * (M* I -/ 5(,I * (I -SI (+H . . G(* ,H	" E$E%<$; (:! %(1 N
!	Dr4	" E$E%<$; (:%' (1 N
"	B-M* 2,3(G4/ 5(I 4+(/ . (M4,I 2 . T (4/ 5(+. H-H* 2(* J* / ,+(42* (I * G5(,I * 2* (0 2(3.) / S(H -G52* /	" E$E%<$; (:<; (1 N
K	L * ,,* 2(M>* (,24-G4G/ S(HJ(H 225. 2(X* +,2 . T +(?42>-/ S(+I * G* 2(4,(+) / 0+I (?. / 5	" E$<E%<$; ($:< (FN
	c 4,* 2(0) / ,4-/ +(4G/ S(,24-G	" E$<E%<$; ($%$; (1 N
	@ * (?42>(. / (=,42(U4a* 2(6 2(H) G5() +* (455-,-. / 4G(* \ ) -?T * / ,	" E, E%<$; (:! K(FN
;	V4/ >+(I . G89	" E, E%<$; (%" $(FN
<	=-5* 9 4G3+(. / (Q,3(R	" E, E%<$; (%% (FN
$	N4/ 3(. 0(6 * 7. 2* +,-+(?G43S2) / 5+(. 0(* 2(. G5[(.) ,54,* 5(* \ ) -?T * / , (Y5(G3* (,. (+* * (/ -H* 20G. >-/ S ?G43S2) / 5+(9 -,I (T . 2* (* \ ) -?T * / ,(4/ 5(/ -H* [(HG4/ [(T 4-/ ,4-/ * 5(M4,I 2 . T +	" E, E%<$; (%<; (FN
%	D* * 5(T . 2* (-/ (H T T . / (42* 4+(. 0(,. 9 / (0(/ . ,(') +,(-/ (/ * 9 (+) M5-J-+-. / +	" E, E%<$; ($$:" K(1 N
&	c I * 2* (-+(,I * (?. . G(,I 4,(,I * (?* . ?G(J. ,* 5(0 28ff	" E E%<$; (; :&! (FN
!	=9 -T T -/ S(. ?,-. / +(4/ 5(+40* (9 43+(,. (S* ,(,. (?42>+	" E E%<$; (:" &(FN
"	=40* (9 43(,. (S* ,(02 T (* 4+,(. 0(N4-/ (,. (?4J* 5(,24-G	" E E%<$; (:& (FN
K	N . 2* (.) ,5. . 2(?2 S24T +(0 2(>-5+(4/ 5E 2(2* +-5* / ,+(9 -,I (5* T * / ,-4E G(I * -T * 2+	" E E%<$; (K:< (FN
	@ * 2* (-+(/ . (M4,I 2 . T (4,(G-M* 2,3(?42>	" E E%<$; (! :% (FN
	c * +,* 2/ (U2* * / (?42>-/ S	" E E%<$; (! :%$(FN
;	B-M* 2,3(G4/ 5(H) G5() +* (-T ?2 J* T * / ,[(-/ H)5-/ S(2* +,2 . T	" E E%<$; ($<:$; (1 N

; <	=,2* * ,(4H-H* ++(,. (+* / -. 2(H* / ,* 2(+-5* 9 4G(9 I * * GI 4-2(24T ?+(-/ (2 45(-/ (?. . 2(H / 5-,-. /	" E P/<$; ($<:! $(FN
; $	7. 2(. G5* 2(>-5+	" E P/<$; (; :! K(FN
; %	1 G@S. . 5	" E P/<$; (; :<&(FN
; &	D* * 5(. G5* 2(>-5(* \ ) -?T * / ,(,. .	" E P/<$; (K:" &(FN
; !	N . 2* (,. 55G2(02* / 5G3(?42>+(-/ (9 4G-/ S(GH4,-. / +	" E P/<$; (&:%%(FN
; "	@* / +(/ * * 5(,I -/ S+(,. (5.	" E P/<$; ($%" &(FN
; K	B. J* (,I * (,24-G(M) ,(I 4J* (/ . (9 I * 2* (,. () +* (,I * (2* +,2 . T (-0(/ * * 5* 5[(') +,(,I -+(?4+,(=) / 543(Y(9 4+ 5* +?* 24,* (4/ 5(,I 4/ >0) G@(+49 (4(/ * 9 (I .) +* (H / +,2) H,-. / (9 -,I (4/ (?. 2,(4(?. .,,3(M) ,(,I * 2* (I 4J* (M* * / ,-T * +[(Y(I 45(,. (I -5* (M* ,9 * * / (,2* * +(4/ 5(I . ?* (/ . ,(,. (M* (+* * / (@ 4/ >0) G@O) +,(s($ (@* (+T 4G-M4,I 2 . T +(4,(?42>+[(-0(,I * 3(I 4J* (4(M4,I 2 . T (42* (. / G(0 2($(?* 2+. /	" E P/<$; ($:&$(1 N
;	=) / 0+I (?. / 5(0M4,I 2 . T (c -/ 5+. 2(02* T 4/ (?42>(0+40* (9 43(,. (S* ,(,I * 2* (c -/ 5+. 2(+) / +* ,(?42>(0+40* 9 43(,. (S* ,(,I * 2* (Q. / +* 2J4/ H3(?G@a4(0* \ ) -?T * / ,(g . ,(* / .) SI H(4/ 5(+?G@+I (?45(-T ?2 J* T * / ,O 5. * +/ _,(4(9 43+(9 . 2>(7-* G5+(. 0(. 0(RO(. ,(* / .) SI (?42>-/ S(0 2(* J* / ,+(c . 2>.) ,(?42>(-/ (H / +* 2J4/ H3(O M4,I 2 . T	" E P/<$; ($$:&$(1 N
;	c .) G5(4??2* H4,* (-0(,I * (M>* (,24-(@9 .) G5(H / ,-/) * (. / (R(5. 9 / (,. (,I * (+,42(. 2(,I * (M>* (,24-(G / (T 4-/ +,2* * ,	" E P/<$; ($$:%<(1 N
; ;	=-5* 9 4G(. / (,I * (D. 2I (+-5* (. 0(n* 00* 2+. / (02 T (L2) / +(,. (WJ* 2S2* * / (QI -G52* / (9 4G-/ S(02 T (L2) / + =,BX* / 4,4(Q,(42* 4(,. (7-2* T 4/ _+(?42>(42* (0 2H* 5(,. (9 4G(-/ (,I * (2 45(,. (,I * (+-5* 9 4G(+,42,-/ S(4, V4G. 2(. 2(. / (,I * (0(42(+-5* (. 0(,I * (I -SI (+H . . (G* / ,24/ H*	" E P/<$; ($$:<; (1 N
$<<	1 55(T . 2* (5-J* 2+* (45. G5+H* / ,(4/ 5(,* * / (?2 S24T +[(0* G5(,2-?(?2 S24T (c * _J* (5. / * (,I * (2* H(?2 S24T +[M) ,(,I * 2* (/ * * 5+(,. (M* (* J* / (T . 2* (H / +,2) H,-J* E/ ,* 2* +,-/ S(,I -/ S+(0 2(. G5* 2(>-5+ (C.) (M) -G(,I 4,(54T / +. 0(M4-G@T . / +,2 +-,3[(* J* / (,I .) SI (,I * (. G5(7-2* T 4/ _+(?42>(0* G5+(9 * 2* () / 5* 2) +* 5 (c I * 2* (42* (,I * ,* / / -+(H) 2,+[(?. . (@(+>4,* ?42>8	" E P/<$; ($$:< (1 N
$<$	D. / * (') -,(24-+-/ S(T 3(,4^* +	" E P/<$; ($$:<$(1 N
$<%	V4/ >+(V4G@9 (F42>	" E P/<$; (:& (1 N
$<&	D. (?42>-/ S(4,(Q. / +* 2J4-H3(F@4H* 8(F. . 2(5* +-S/	" E P/<$; (:&! (1 N
$<!	1 G@F42>+(H) G5() +* (M* ,,* 2(?42>-/ S	" EKP/<$; (; :% (FN
$<"	Q. T T) / -,3(T * T M* 2+(/ * * 5(T . 2* (* 5) H4,-. / (. / (* ,-\ ) * ,,* (. / (,I * (,24-G (7. 2(* ^4T ?G[(?-H+-/ S() ?(3.) 2 5. Sd+(+,. . G(1 / . ,I * 2(* ^4T ?G(-+(9 I * / (25-/ S(4(M4-B-HG(4/ 5(H T -/ S() ?(M* I -/ 5(+. T * . / * (9 4G-/ S[+43(?4++-/ S(. / (,I * (G0(	" EKP/<$; (:! <(FN
$<K	7-2* T 4/ +(?42>(?@43S2) / 5(-+(,. . (+T 4@4/ 5(,. . (HG+* (,. (,I * (2 45	" EKP/<$; (K:" <(FN
$<	F42>-/ S(4/ 5(+-S/ 4S* (0 2(/ * 9 (H T T) / -,3(2 . T (4,(,I * (7-2* T 4/ d+(?42>	" EKP/<$; (! :% (FN
$<	=T 4@@ . / (2* +* 2J4M(G(+I * G* 2+[(?* 2T 4/ * / ,(S2-G@[(4/ 5(?-,+(,. (?) ,(I . ,(H 4G(42* (/ * * 5* 5(0 2(2* +-5* / ,+ ,. () +* (. / (4(02+,(H T * (M4+-+	" EKP/<$; (&:" %(FN
$<;	7-2* T 4/ +(?42>(3.) (/ * * 5(T . 2* (* \ ) -?T * / ,(0 2(>-5+	" EKP/<$; (&:%K(FN
$$<	1 5) G(?2 S24T +(4(G@T -,* 5(,. (4J4-@M-G3(. 0(S3T (04H-G-* +	" EKP/<$; (%$$(FN
$$$	F42>+(9 -,I (T . 5* 24,* () +4S* (,I 4,(5. (/ . ,(I 4J* (2* +,2 . T + (F42>-/ S(/ * 42(7-2* T 4/ _+(F42> (U* ,,-/ S ,. E@2 T (7-2* T 4/ _+(F42>	" EKP/<$; (%<K(FN
$$%	c * +,* 2((U2* * / [(7-2* T 4/ +	" EKP/<$; (%<! (FN
$$&	@* (?42>-/ S(-+(G@T -,* 5(4,(9 * +,* 2((S2* * / (1 G. (9 .) G5(GJ* (,. (+* * (4(?@43(+,2) H) 2* (-/ (,I * (+) / / 3M2 . > / * -SI M 2(. . 5(?42>	" EKP/<$; ($:" (FN
$$!	Q. / / * H,-/ S(c -/ 5+. 2(,. (6 * 7 . 2* +, (Q. / / * H,-/ S(c -/ 5+. 2(,. (c -/ 5+. 2(D* -SI M 2(. . 5+(4H-2 ++(V9 3(" $ 4/ 5($; (1 G@M4,I 2 . T +(+I .) G5(I 4J* (M4,I 2 . T (4H-H* ++	" EKP/<$; ($:! %(FN
$$"	02* T * / +(?42>(/ * * 5+(T . 2* (?42>-/ S	" EKP/<$; ($:$$(FN
$$K	B-/ H G(S2* * / (?@43S2) / S	" EKP/<$; ($:<K(FN
$$	7. ^(V-G@W+,4,* +_(/ * * 5+(,I * (?42>(,I 4,(-+(?@4/ / * 5 (=-/ H* (c -/ 5+. 2(-+(M) -G5-/ S(,I * (I) S* (?42>(5* 5-H4,* 5 ,. (T . +,G3(H -G52* / (2* @4,* 5(4H-J-,-* +[(-,(9 .) G5(M* (S2* 4,(,. (I 4J* (,* / / -+(. 2(M4+>* ,M4-G@H) 2+(0 2(.) 2 / * -SI M 2(. . 5	" EKP/<$; ($%! (FN

$$	6 . S(?42>[(S24++(-+(,4G2(,I 4/ (T 3(5. S+ (R* 23(?. . 2(H / 5-,-. /	" EKP%<$; ($%% (FN
$$;	6 4I (F42>(H) G5() +* (4G(0(,I * +* [(* ^H* ?,(+-5* (9 4G>+(:h	" EKP%<$; ($%%&(FN
$%<	A 0(+,2* * ,(?42>-/ S(0 2(7-2* T 4/ +(?42>(-0(T . 2* (455-,-. / +(42* (455* 5(,. (,I * (?42>	" EKP%<$; ($%$" (FN
$%$	c * +,* 2/ (S2* * / (,24-G * * 5+(,. (M* (0/ -+I * 5 (=?4G+I (?45(4/ 5(T . 2* (?4G3S2) / 5(42* 4(4,(02* T 4/ _+(?42>	! P%KP%<$; (:&%(1 N

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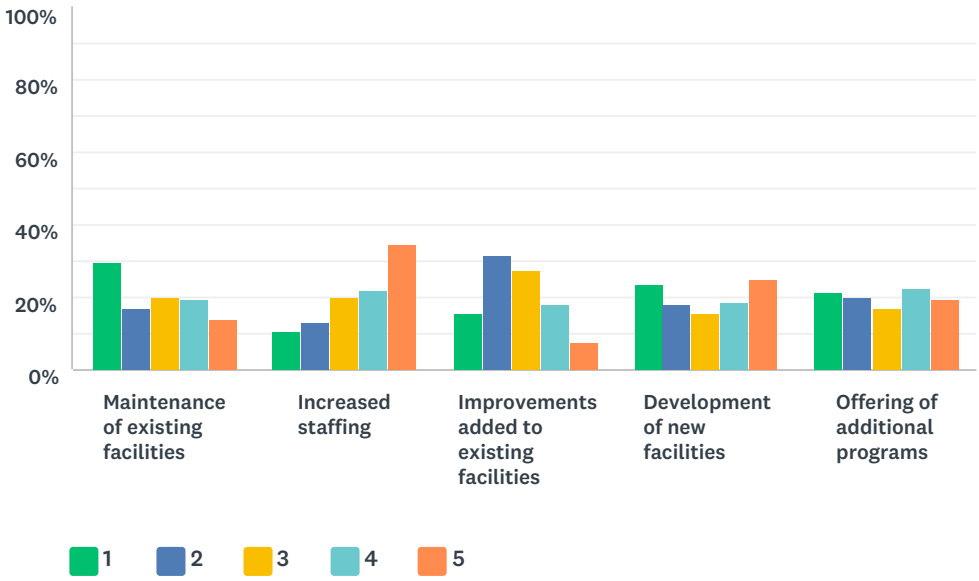
' $<(') * +,-. / (; (. 0(%$Q. / +-5* 2-/ S(,I * (/ * * 5+(,I * (R-G4S* (. 0(6 * 7 . 2* +,(I 4+ 0 2(455-,-. / 4G) ,5. . 2(2* H2* 4,-. / 4G04HG-* +[(2* +.) 2-H* +[(4/ 5(?2 S24T +[?*G4+* (24,* (,I * (0 G9 -/ S(-/ (. 25* 2(. 0(-T ?. 2,4/ H* (9 -,I ($(M* -/ S(,I * (T . +,) 2S* / ,(4/ 5(" (M* -/ S(,I * (G4+,() 2S* / ,

1 / +9 * 2* 5:(&&$(=>-??* 5:(K! ;



$	=	>	?	B	<	, ' , +
N 4-/ ,* / 4/ H* (. 0(* ^-+,-/ S(04HG-* +	% &$# ;	$ %%# "	%< %# K	$; &! # K!	$& ; <# ! K	(&&$
Y H2* 4+* 5(+,400/ S	$< " # &"	$%; ; # ! &	$; ; ! # KK	%$ " # %	&! ! # $$"	(&&$
YT ?2 J* T * / ,+(455* 5(,. (* ^-+,-/ S(04HG-* +	$" ! $# " $	&$ %# $<"	% ! ; # ; $	$ $&# K<	%' # %	(&&$
6 * J* G?T * / ,(. 0(/ * 9 (04HG-* +	%& %K#	$ $&# K<	$" ! $# " $	$! &# K$	% # %	(&&$
A 00* 2-/ S(. 0(455-,-. / 4G?2 S24T +	%$! " # $	$; ; ! # KK	$K ; %# " K	%%&K# !	$; &! # K!	(&&$

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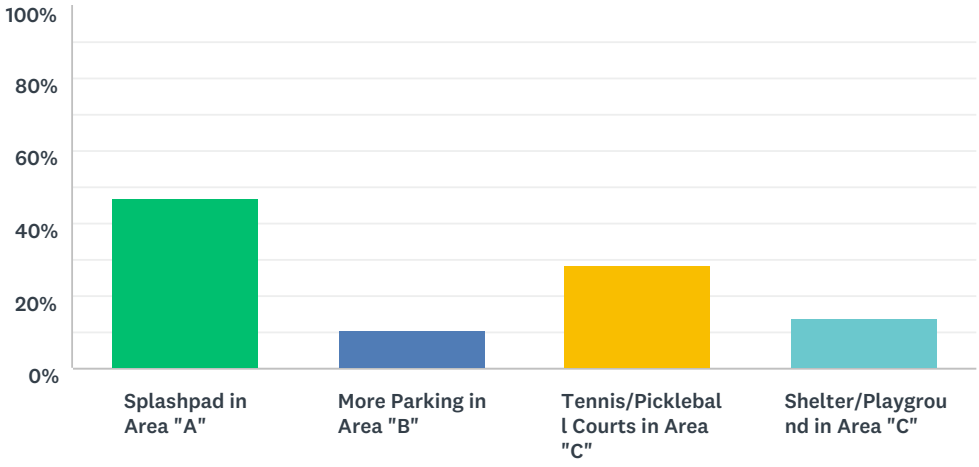
' $$(') * +,-. / ($<(. 0(%$FI 4+* ($(. 0(-T ?2 J* T * / ,+(,. (7-2* T 4/ _+(F42>(9 4+ 2* H* / ,G3(H T ?G,* 5 (D* 9 (04H-G-* +(-/ HG5-/ S(4(?G43S2) / 5[(2* +,2 . T +(4/ 5 4(?* 20 2T 4/ H* (+,4S* (9 * 2* (H / +,2) H,* 5 (c I 4,(9 .) G5(3.) (G>* (,. (+* * -/ HG5* 5(-/ (,I * (/ * ^,(?I 4+* (. 0(H / +,2) H,-. / 8(=* * (,I * (H 22* +?. / 5-/ S(T 4? 0 2(42* 4+(2* 0* 2* / H* 5(M* G9

1/ +9 * 2* 5:(&%$(=>-??* 5:(K" ;



! "#$%&' (%"	#") ' "	
=?G+I ?45(-/ (12* 4(i1i	! <!#	$"$
N. 2* (F42>-/ S(-/ (12* 4(iLi	$< "; #	&!
@/ / -+EF-H>GM4G(Q.) 2+(-/ (12* 4(iQi	% &"#	; $
=I * G* 2EF@43S2) / 5(-/ (12* 4(iQi	$! <%#	!"
@A@ B		&%$

"" (E $

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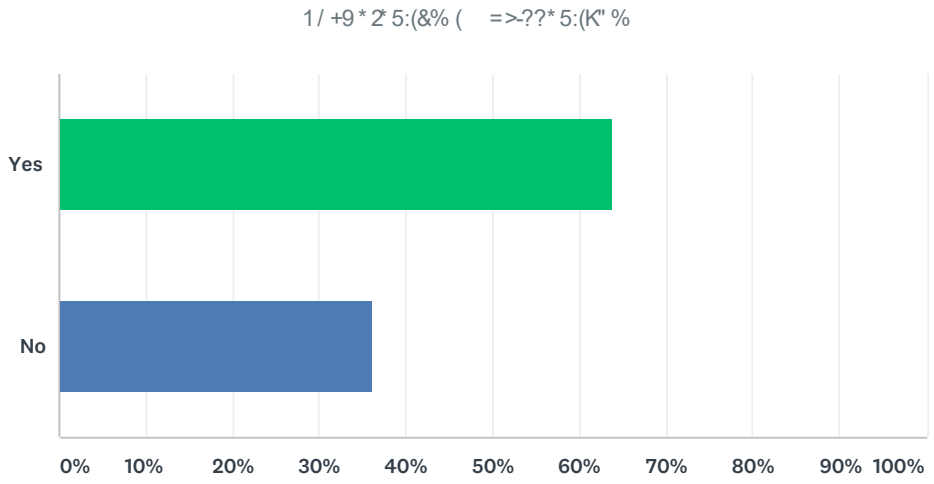
' $%(') * +,-. / ($$(. 0(%$6 . (3.) (. 2(+. T * . / * (-/ (3.) 2(I .) +* I . G5(?42,-H?4,* -/ (6 * 7 . 2* +,(2* H2* 4,-. / 4G(?2 S24T +8



! "#$%&' (%"	#") ' "	
C* +	K& %#	%<;
D.	&K % #	$$;
@A@ B		&%

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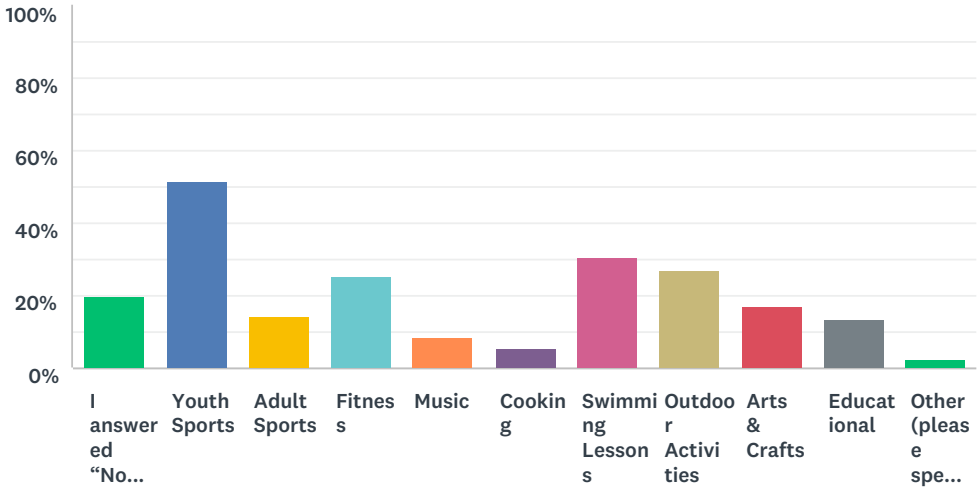
' $&(') * +,-. / ($%(. 0(%$Y0(3.) (4/ +9 * 2* 5(iC* +i (,. (') * +,-. / (s$[(-/ (9 l 4, ,3?* +(. 0(?2 S24T +(5. (3.) (. 2(4(T * T M* 2(. 0(3.) 2(04T -G3(?42,-H?4,* 8(gQl * H> 4G(G,l 4,(4??G3h

1 / +9 * 2* 5:(%K$(=>-??* 5:($;



! "#$%&' (%"	#") ' "	
Y(4/ +9 * 2* 5(jD. k(,. (') * +,-. / (s$	$; ; %#	" %
C.) ,l (=?. 2(+	" $ &! #	$&!
15) G(=?. 2(+	$! " K#	&
7-,/ * ++	%' K #	K
N) +-H	! &#	%%
Q. . >-/ S	" &K#	$!
=9 -T T -/ S(B* ++. / +	&< % #	;
A) ,5. . 2(1 H-J-,-* +	%K %#	<
12,+(Z(Q240)+	$ %#	! "
W5) H4,-. / 4G	$& ! $#	&"
A ,l * 2(g?G4+* (+?* H03h	%K #	
@ ,4(GX* +?. / 5* / ,+:(%K$		(

5	' , &"#$D) +" "$) "%(46E	. , "
$	1 ,,* / 54/ H* (4,(B-M2423(?2 S24T +	" P% P<$; (; :%$(1 N
%	C.) ,l (4H-J-,-* +	" P<P<$; ($$:$%(1 N
&	6 4/ H*	" P$%P<$; (K:% (FN
!	C. S4	" P$<P<$; (:&<(FN
"	B4+* 2(,4S	" E P<$; (:" (FN
K	6 4/ H*	" PKP<$; (%<<(FN
	6 4/ H* (H4++* +	" PKP<$; ($%%K(FN

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' $! (') * +,-. / ($&(. 0(%$Y0(3.) (4/ +9 * 2* 5(i D. i (,. (') * +,-. / (s$[(9 l 4,(-+(,l * T 4-/ (2* 4+. / (3.) (5. / d(?42,-H?4,* (-/ (2* H2* 4,-. / (?2 S24T +8(gQl * H>(4G(,l 4, 4??G3h

1 / +9 * 2* 5:(%<K(=>-??* 5:(!

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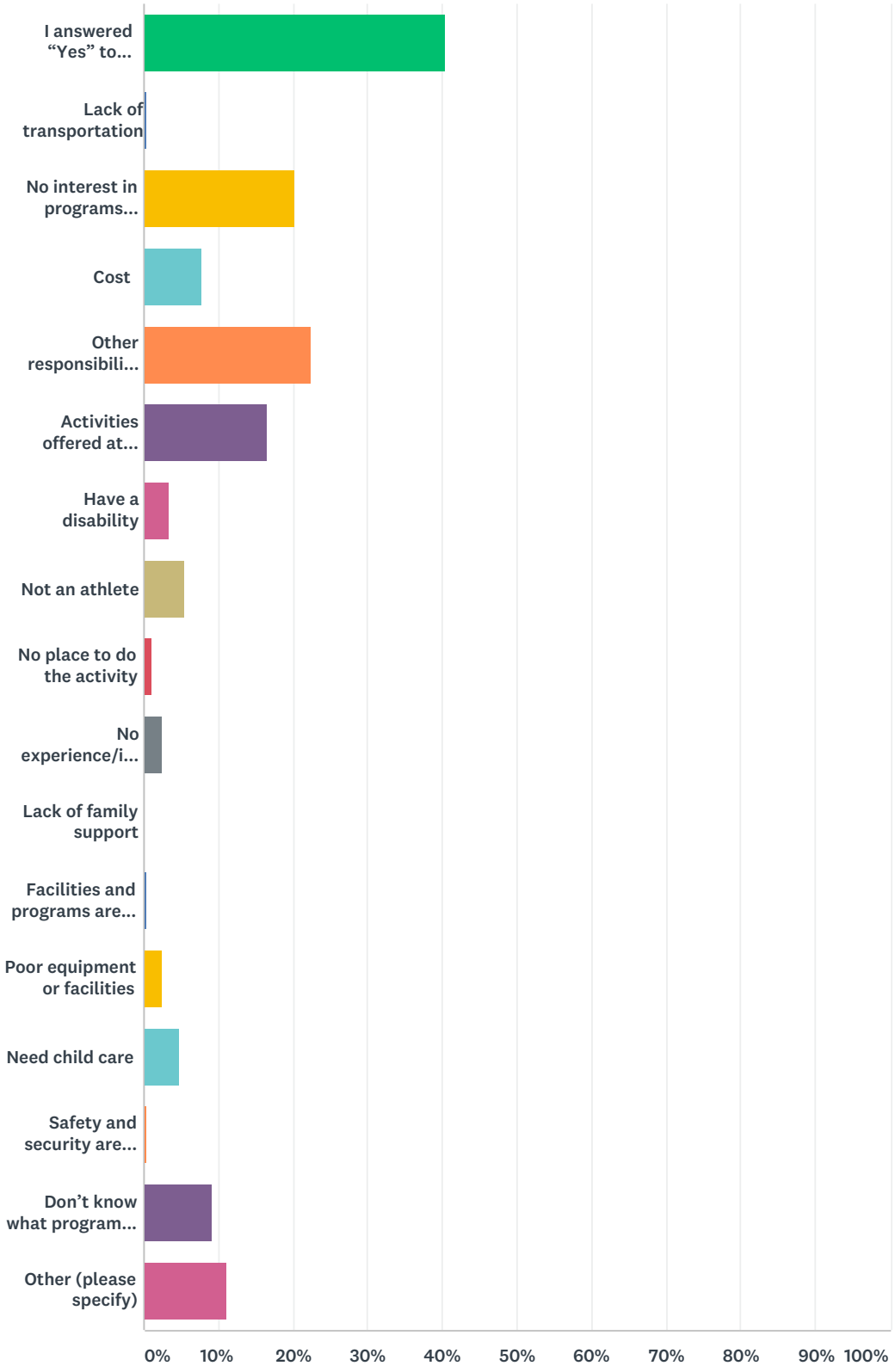

! "#$%&' (%"	#") ' "	
Y4/ +9 * 2* 5(jC* +k(,. (') * +,-. / (s$	! < % #	&
B4H>(. 0(,24/ +?. 24,-. /	< ! ; #	$
D. (-/ ,* 2* +,(-/ (?2 S24T +(. 00* 2* 5	%< &; #	! %

"; (E $

Q. +,	#	$K
A,l * 2(2* +?. / +-MG,-* +E . (,-T *	%%&&#	! K
1H,-J-,-* +(. 0(* 2* 5(4,(-/ H / J* / -* / ,(,-T * +	$K " <#	&!
V4J* (4(5-+4MG,3	& ! <#	
D. ,(4/ (4,l G,*	" &! #	$$
D. (?G4H* (,. (5. (,l * (4H,-J-,3	< ; #	%
D. (* ^?* 2* / H* E/ +,2) H,-. / (,. (5. (,l * (4H,-J-,3	%! &#	"
B4H>(. 0(04T -G3(+) ??. 2,	< <<#	<
74HG,-* +(4/ 5(?2 S24T +(42* (,. . (042(49 43	< ! ; #	$
F. . 2(* \ ) -?T * / ,(. 2(04HG,-* +	%! &#	"
D* * 5(H -G5(H42*	! "#	$<
=40* ,3(4/ 5(+* H) 2,3(42* (H / H* 2/ +	< ! ; #	$
6 . / d(>/ . 9 (9 l 4,(?2 S24T +(42* (. 0(* 2* 5	; %&#	$;
A,l * 2(g?G4+* (+?* H-03h	$$ $ #	%&
@ ,4(GX* +?. / 5* / ,+:(%<K		(

5	' , &"#$D) +" "$) "%(46E	. , "
$	c * () +* 5(,. (/ . 9 (>-5+(42* (. G5* 2(4/ 5(-/ (V=(+?. 2,+	"E%$E%<$; (%" $(FN
%	6 . (T . +,(?2 S24T +(4,(,l * (C	"E$; E%<$; (:&&(FN
&	D. (-/ ,* 2* +,	"E$; E%<$; (:<$(FN
!	Y(9 .) G5(GJ* (45) G,+. H-H* 2(?2 S24T +	"E$; E%<$; (:! %(FN
"	Ql -G52* / (,. . (3.) / S	"E$; E%<$; (:! <(FN
K	e-5+(,. . (3.) / S	"E$; E%<$; (:%$(FN
	Ql -G5(-+(. / G3(%(3* 42+(. G5	"E$ E%<$; (" :" (FN
	D. (+. H-H* 2(?2 S24T (0 2(. G5* 2(e-5+	"E$KE%<$; (:&" (FN
;	=. H-H* 2(-+(. / G3(4(HG,M(+?. 2(?4+,(4(3.) / S(4S*	"E$KE%<$; (K:&&(FN
$<	1 G(?24H,-H* +(+,42,(M* 0 2* (K:&<(?T (9 l -H (-+(,l * (* 42G3 +,(%(?42* / ,+(9 . 2>-/ S() / ,-GK(H) G5(T 4>* (-,	"E$! E%<$; ($%" &(FN
$$	D. (H -G52* / (. 0(,l 4,(4S*	"E$&E%<$; (; :$<(1 N
$%	D. (-/ ,* 2* +,	"E$$E%<$; (:! &(FN
$&	D. (,-T *	"E$$E%<$; ($%! " (FN
$!	Ql -G52* / () / 5* 2(&	"E$$E%<$; (:<$(1 N
$"	n) +,(T . J* 5(l * 2*	"E$<E%<$; (! :&! (FN
$K	F2 S24T +(. 0(* 2* 5(42* (/ . ,(. 0(-/ ,* 2* +,	"E E%<$; (:" (1 N
$	D. ,(-/ ,* 2* +,* 5	"E E%<$; (" :%<(FN
$	V4J* / _(,4>* / (,l * (,-T * (,. (+* * (9 l 4,(-+(. 0(* 2* 5	"E E%<$; ($:! ! (FN
$;	D. ,l -/ S(0 2(,* * / +() / 5* 2(,l * (4S* (. 0($K	"E E%<$; ($%" " (FN
%<	Q. T T) / -,3(Q* / ,* 2(-+(/ * * 5* 5	"E E%<$; ($%&; (FN
%$	c -G(G+. . / (l 4J* (4(H -G5(-/ (?2 S24T +	"EKE%<$; ($<:$<(FN
%%	@T * (. 0(45) G+(H3++* +(. 0(* 2* 5	"EKE%<$; (:! $(FN

%&	c .) (5(@* (T . 2* (?2 S24T +(0 2(3.) / S* 2(>-5+(g " (3. h	" ÆKÐ⁄<-$; ($%%K(FN

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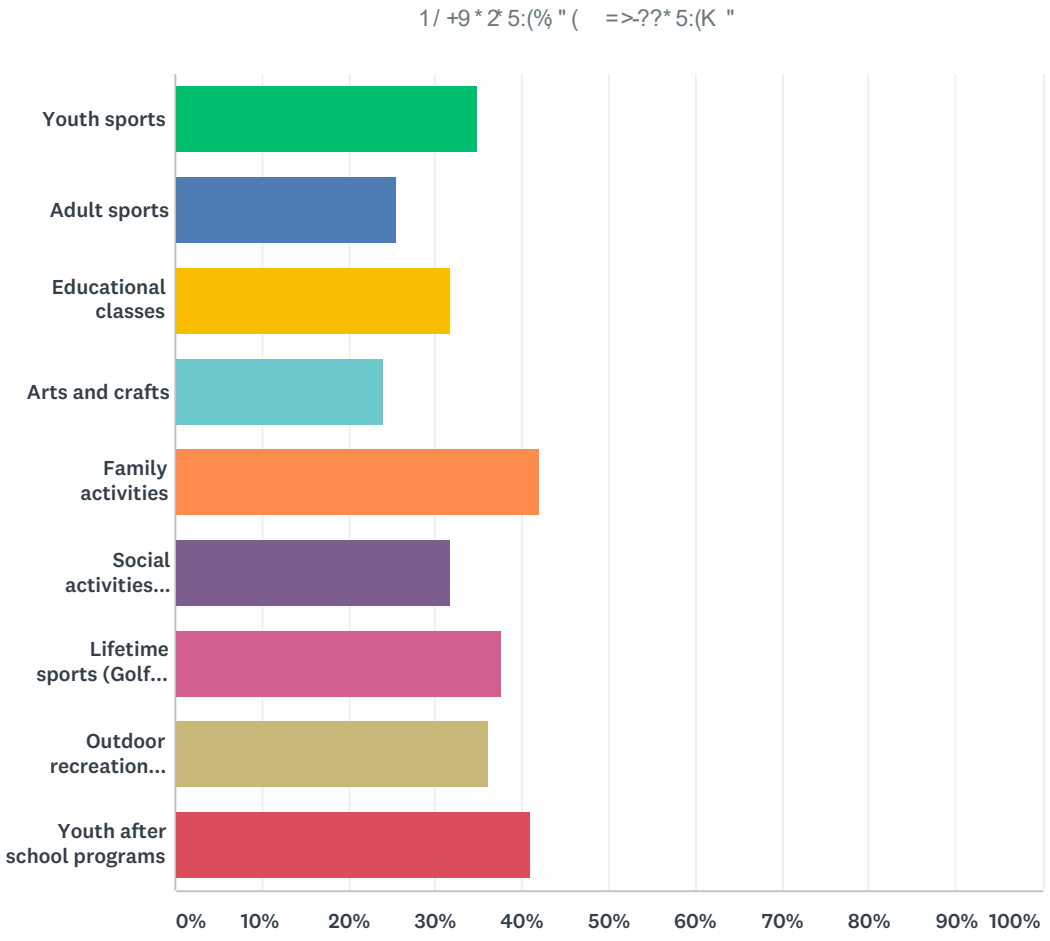
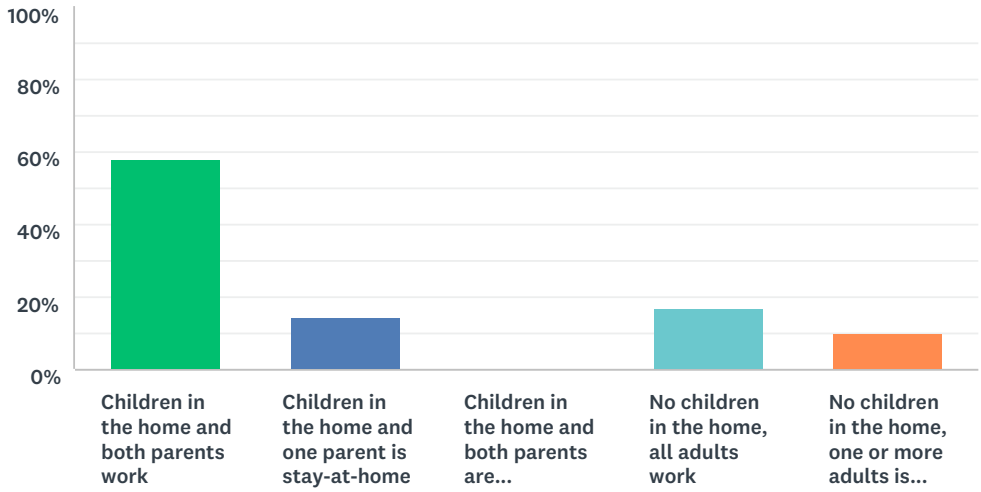
' $" (') * +,-. / ($! (. 0(%$c .) G5(3.) (G> * (6 * 7 . 2* +,(,. (. 0T* 2(T . 2* (. 0(4/ 3(. 0
,I * (0 GG9 -/ S(,3?* +(. 0(?2 S24T T -/ S8(gF G4+* (H * H>(4GG,I 4,(4??G3h



! "#$%&' (%"	#") ' "	
C.) ,I (+?. 2,+	&! ; %#	$<&
15) G(+?. 2,+	%' ! %#	"
W5) H4,-. / 4GH4++* +	&$ K#	; !
12,+(4/ 5(H40+	%4 < #	$
74T -G(4H,-J-,-* +	! %<&#	$%4
=. H4G4H,-J-,-* +(g6 4/ H* [(S4T * +[(* ,Hh	&$ K#	; !
B-0* ,-T * (+?. 2+(gJ. G4(,* / / -+[(M>-/ S[(* ,Hh	& K&#	$$$
A) ,5. . 2(2* H2* 4,-. / (gQ4T ?-/ S[(H4/ . * -/ S[(* ,Hh	&K % #	$<
C.) ,I (40* 2(+H . . G?2 S24T +	! $ <%#	$%&
@ ,4G(X * +?. / 5* / ,+:(% "		(

' $K(') * +,-. / ($" (. 0(%$FG4+* (H * H>(,I * (+,4,* T * / ,(,I 4,(T . +,(2* 0GH,+(3.) 2 I .) +* I . G(T 4>*) ?:

1 / +9 * 2* 5:(&%<(=>-??* 5:(KK<



! "#$%&' (%"	#") ' "	
QI -G2* / (-/ (,I * (I . T * (4/ 5(M ,I (?42* / ,+(9 . 2>	" $#	$ "
QI -G2* / (-/ (,I * (I . T * (4/ 5(. / * (?42* / ,(-+(+,430,0 . T *	$! K; #	!
QI -G2* / (-/ (,I * (I . T * (4/ 5(M ,I (?42* / ,+(42* (+,430,0 . T *	< &$#	$
D. (HI -G2* / (-/ (,I * (I . T * [(40@45) G+(9 . 2>	$ $; #	" "
D. (HI -G2* / (-/ (,I * (I . T * [(. / * (. 2(T . 2* (45) G+(-+(+,430,0 . T *	$< <<#	&%
@A@ B		&%<

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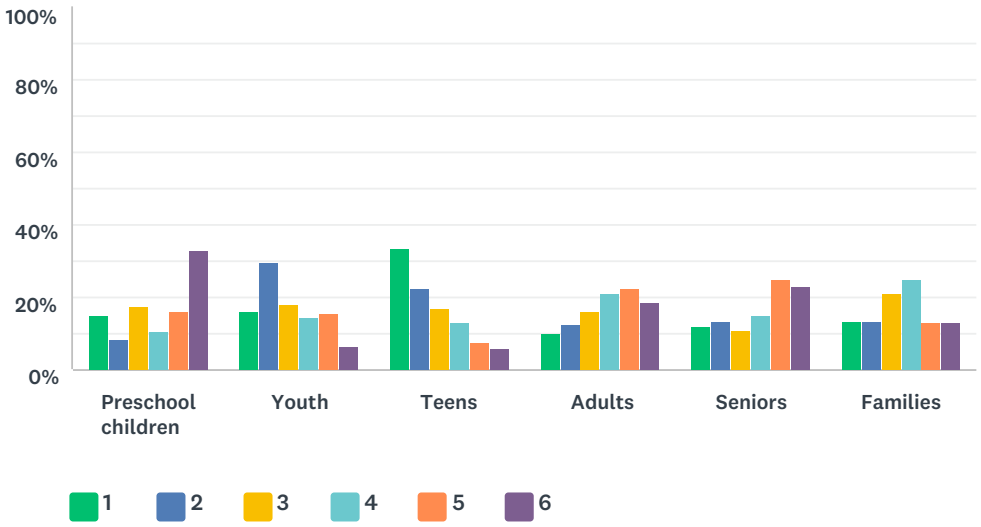
' $ (') * +,-. / ($K(. 0(%$F G*4+* (?2-. 2-,-a* (9 l -Hl (S2) ?(/ * * 5+(T . 2* 2* H2* 4,-. / 4G?2 S24T T -/ S(Hl . -H* +8(g$(u(V-Sl * +,(?2-. 2-,3[(,l * (R-G4S* / * * 5+(,. (?2 J-5* (T . 2* (2* H2* 4,-. / 4G?2 S24T T -/ S(0 2(,l -+(S2) ? (K(u B. 9 * +,(?2-. 2-,3 (@* 2* (-+(* / .) Sl (2* H2* 4,-. / 4G?2 S24T T -/ S(0 2(,l -+(S2) ?h

1 / +9 * 2* 5:(&$$(=>-??* 5:(KK;



$	=	>	?	B	<	F	, ' , +
F2* +H . . (H -G2* /	$! ; "# ! "	&$# %'	$ % # " %	$< K&# &%	$" ; "# !	&% ; # ; ;	(&<$
C.) ,l	$K <$# ! ;	% ! $# ; <	$; # ""	$! $# ! "	$" &K# !	K "! # %<	(&<K
@* / +	&& "" # $<%	%% <# K;	$ $$# " %	$& $K# ! <	" # %&	" ; %# $	(&<!
15) G+	; ; # &<	$%K%# &	$" ; "# !	%< ; &# K&	%%%K# K	$ % # ""	(&<$
=* / -. 2+	$%< # &K	$& ! %# ! <	$$ < # &&	$" $<# ! "	%' $ # "	%& $"# K;	(%
74T -G +	$&" # ! $	$&" # ! $	%$ $; # K!	%' $ # K	$& %'# ! <	$& %'# ! <	(&<%

K! (E $

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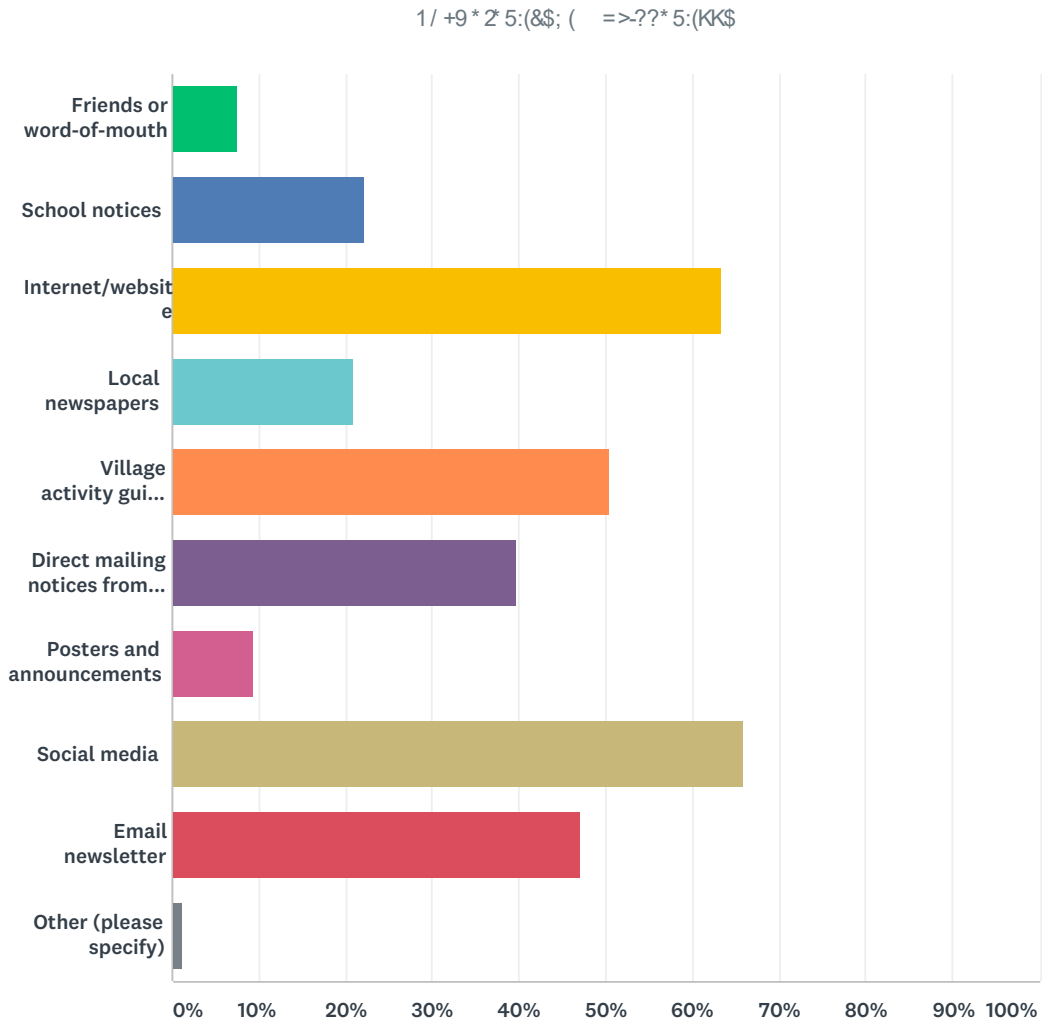
' $ (') * +,-. / ($ (. 0(%$V . 9 (9 .) G5(3.) (?2* 0* 2(,. (2* H* -J* (-/ 0 2T 4,-. / (4M) , 2* H2* 4,-. / 4G?2 S24T T -/ S(-/ (6 * 7 . 2* +,8(gQI * H>(4G(I 4,(4??G3h



! "#$%&' (%"	#") ' "	
72* / 5+(. 2(9 . 25O 0T .) ,I	" %#	%
=H . . G . ,-H* +	%%%K#	$
Y ,* 2 * ,E9 * M+-,*	K& &%#	%<%
B. H+G * 9 +?4?* 2+	%$ <<#	K
R-GS* (4H,-J-,3(S) -5* (. 0(?2 S24T +(4/ 5(+H * 5) G+	" < ! #	K
6 -2* H,(T 4-G S(/ . ,-H* +(02 T (,I * (R-GS*	&; $#	$%
F. +,* 2+(4/ 5(4/ / .) / H* T * / ,+	; ! <#	&<
=. H+4G T * 5-4	K" &#	%$<
WT 4-G * 9 +G,, * 2	! <%#	$" <
A ,I * 2(g?G4+* (+?* H03h	$ %' #	!

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@ ,4 X * +?. / 5* / ,+:(&$;	(

5	' , &"# $) +" "$) "%(46E	. , "
$	=I .) 5(I -2* (T . 2* (?. * ?(,. (?. +,(. / (4H* M . >(9 -,I (I .) 23() ?54,* +	" %, %<$; (" :! ! (FN
%	B-M2423	" $ %<$; ($<:" &(FN
&	D	" E %<$; ($%" K(FN
!	1	" E %<$; (" :$ (1N

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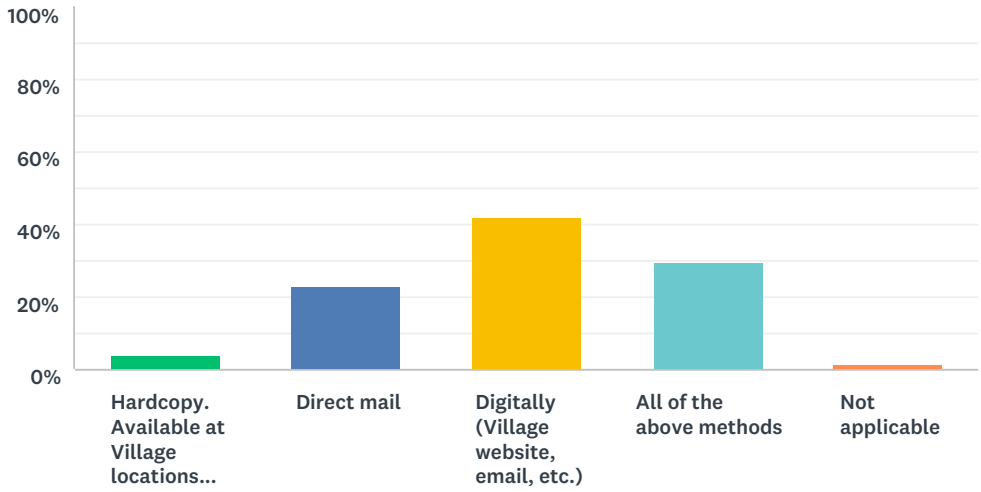
' $; (') * +,-. / ($ (. 0(%$V . 9 (5. (3.) (?2* 0* 2(,. (2* H* -J* (,I * (R-GS* (1 H,-J-,3 U) -5* 8

1 / +9 * 2* 5:(&%<(=>-??* 5:(KK<



! "# $%&' (%"	#") ' "	
V425H ?3 (1 J4-4MG(4,(R-GS* (GH4,-. / +(gB-M2423[(R-GS* (V4G* ,Hh	! <K#	$&
6 -2* H,(T 4-G	%% $#	&
6 -S-,4G(gR-GS* (9 * M+-,* [(* T 4-G* ,Hh	! $ #	$&!
1G 0(,I * (4M J* (T * ,I . 5+	% K; #	; "
D. ,(4??G+4MG	$ " K#	"
@A @ B		&%<

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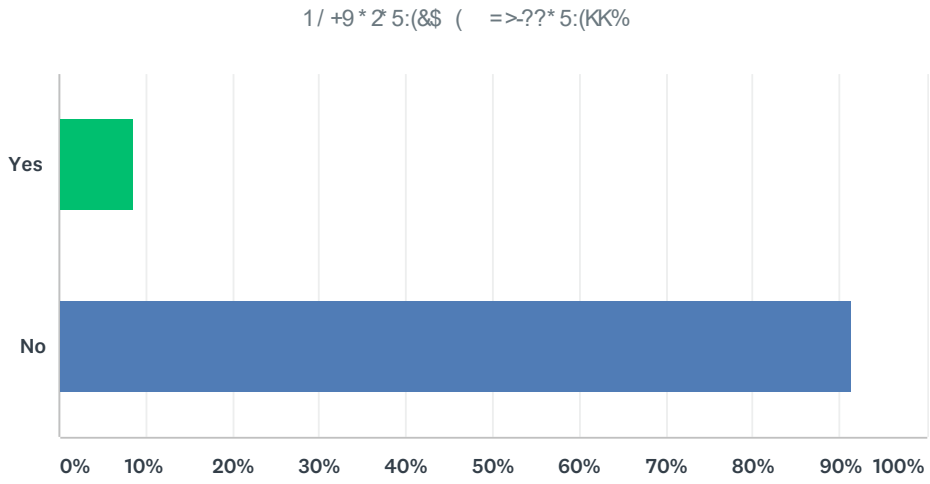
' %<(') * +,-. / ($; (. 0(%$6 . (4/ 3(T * T M* 2+(. 0(3.) 2(I .) +* I . G5(I 4J* (4
5-+4M-G,3(4+(5* 0/ * 5(M3(,I * (1 T * 2-H4/ +(9 -,I (6 -+4M-G,-* +(1 H,(g1 6 1 h8



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Village of DeForest Park & Open Space Plan - Park Facility & Recreational Programming Survey

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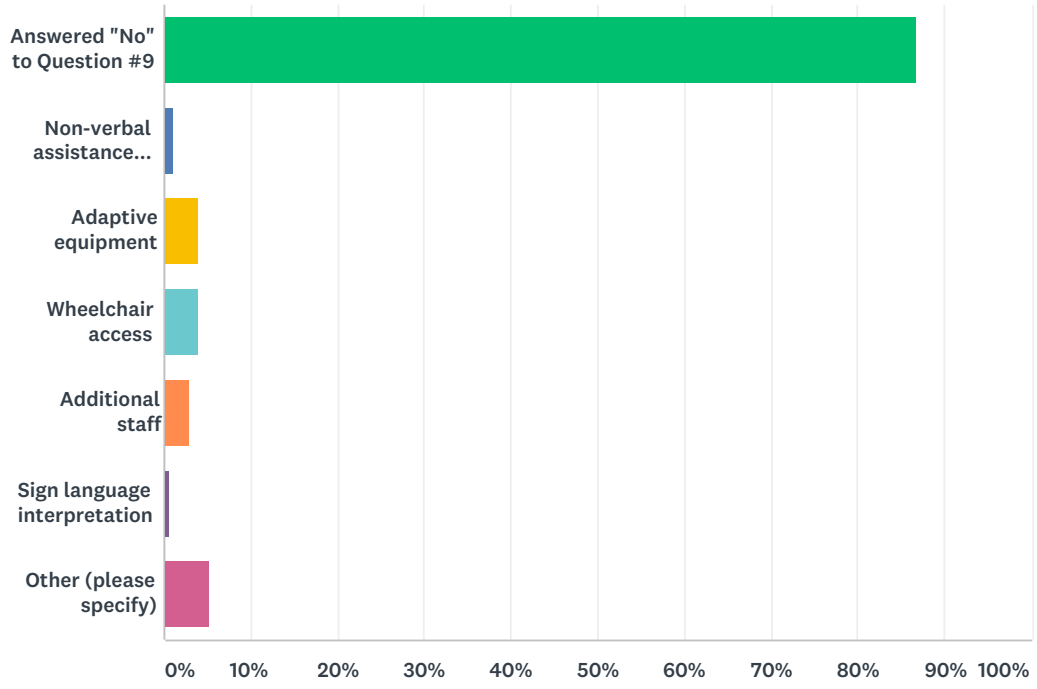

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Village of DeForest Park & Open Space Plan - Park Facility & Recreational Programming Survey

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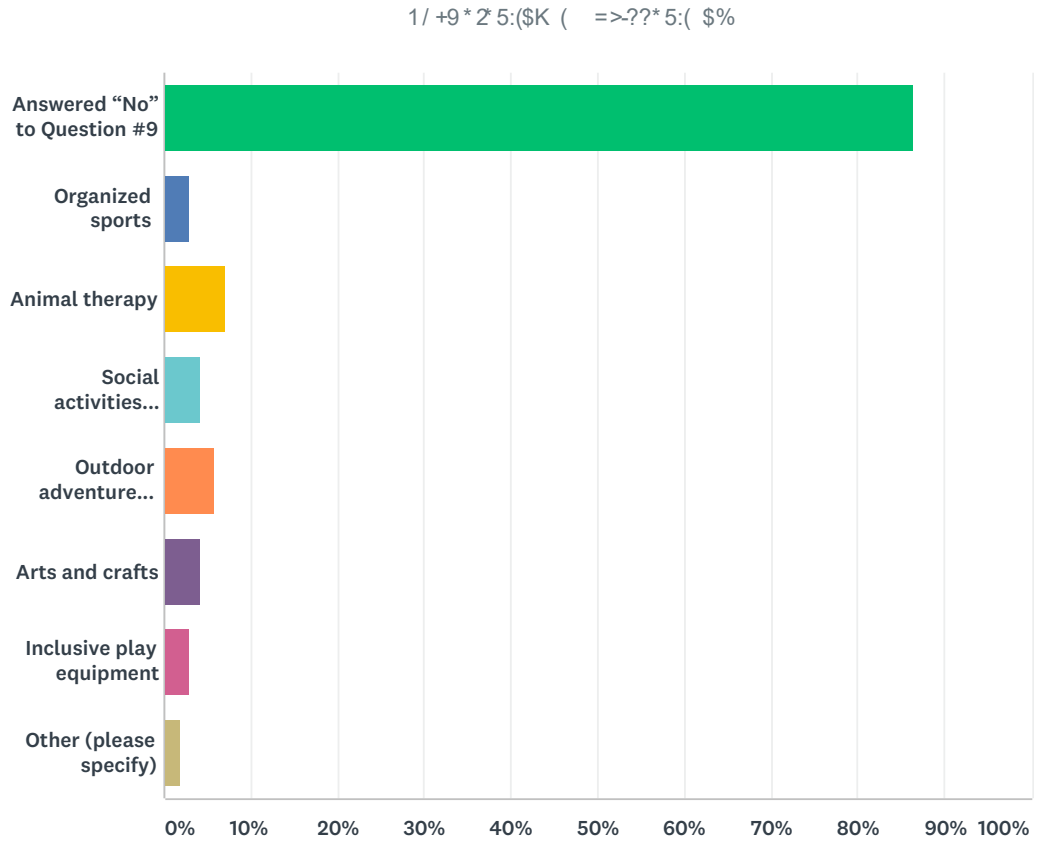

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Appendix D:

Adoption

PLANNING AND ZONING COMMISSION RESOLUTION 2019-909

RECOMMEND ADOPTION OF THE 2020-2024 PARK & OPEN SPACE PLAN OF THE VILLAGE OF DEFOREST, DANE COUNTY, WISCONSIN.

WHEREAS, it is in the best interest of the Village of DeForest to review and report on the need and recommendations for its parks and open space system periodically, in order to refresh its vision and provide a base for determining investment priorities and management practices; and

WHEREAS, the Village desires to maintain its eligibility for grant funding for the acquisition and development of park and recreational facilities through the State Stewardship and Federal LAWCON programs, among others; and

WHEREAS, the Wisconsin Department of Natural Resources requires that the Village update its Park & Open Space Plan every five years to maintain such eligibility and to assure that park planning goals, objectives, and policies are current; and

WHEREAS, the Village has historically adopted its Park & Open Space Plan as a detailed element of the Village's comprehensive plan, in part because the Park & Open Space Plan contains policies and recommendations that affect subsequent decisions under the Village's zoning and subdivision regulations; and

WHEREAS, Section 66.1001(4)(b) of the Wisconsin Statutes indicates that the Planning and Zoning Commission may recommend the adoption or amendment of a comprehensive plan only by adopting a resolution by a majority vote of the entire Commission; and

WHEREAS, the Planning and Zoning Commission has reviewed in detail only those components of the Park & Open Space Plan that relate to subsequent decisions under the Village's zoning and subdivision regulations, relying on the Village administration and Committee of the Whole to review and recommend other components of the Plan; and

NOW, THEREFORE, BE IT RESOLVED that the Planning and Zoning Commission of the Village of DeForest hereby recommends that, following a public hearing, the Village Board adopt the 2020-2024 Park & Open Space Plan, attached hereto as Exhibit A, as a detailed component of the Village's Comprehensive Plan, replacing the 2015-2019 Park & Open Space Plan, with the following recommended changes:

1. Adjust Map 5: Bicycle Routes as follows:
    a. Extend the "existing off-street trail" from the south end of Conservancy Way (future realigned River Road) to reflect 2019 trail construction in conjunction with the DeForest Athletic Complex.
    b. Redraw the remainder of the "planned trail" along the future realigned River Road to follow the platted right-of-way for that future road.
    c. Add a "planned trail" between the current southern end of Conservancy Plaza and the planned trail within the eastern realignment of River Road.
    d. Add a "planned trail" between the north end of the existing Liberty Land Park trail and the planned North Towne Road trail, generally across the southern edge of the high school site.

2. Adjust Map 10: Future Parks & Trails as follows:
    a. Incorporate above changes to Map 5.
    b. Remove the "Schools" legend in the lower left (A-D represent future village parks on Map 10)

3. Amend the text of the plan as follows:
    a. On page 6, remove the final sentence under Section 1.3.1.
    b. On page 6, remove the sentence that reads "Chapter 4 gives recommendations for the future management of natural, agricultural and cultural resources in the Village" and amend the sentence that follows it to read "Recommendations from the Comprehensive Plan related to Village parks, recreation and natural resources include:".
    c. On page 9, in section 1.4.2, change reference to "Planning and Zoning Department" to "Planning and Zoning Commission."
    d. On page 31, change "3.2 Future Parks and Open Spaces" to "3.2 Future Parks and Trails."
    e. On page 106, remove the paragraph defining "public improvement."

BE IT FURTHER RESOLVED that, in making its recommendation, the Planning and Zoning Commission has reviewed only the following components of the 2020-2024 Park & Open Space Plan: Maps 9 and 10; Section 1.1 Executive Summary; Section 1.2 Goals and Objectives; Chapter 2 Analysis of Village of DeForest Park & Open Space System; and Section 3.2 Future Parks and Trails.

Enacted this 24th day of September, 2019.

_____

Jason Kramar, Planning & Zoning Commission Chair

Attested By:

_____

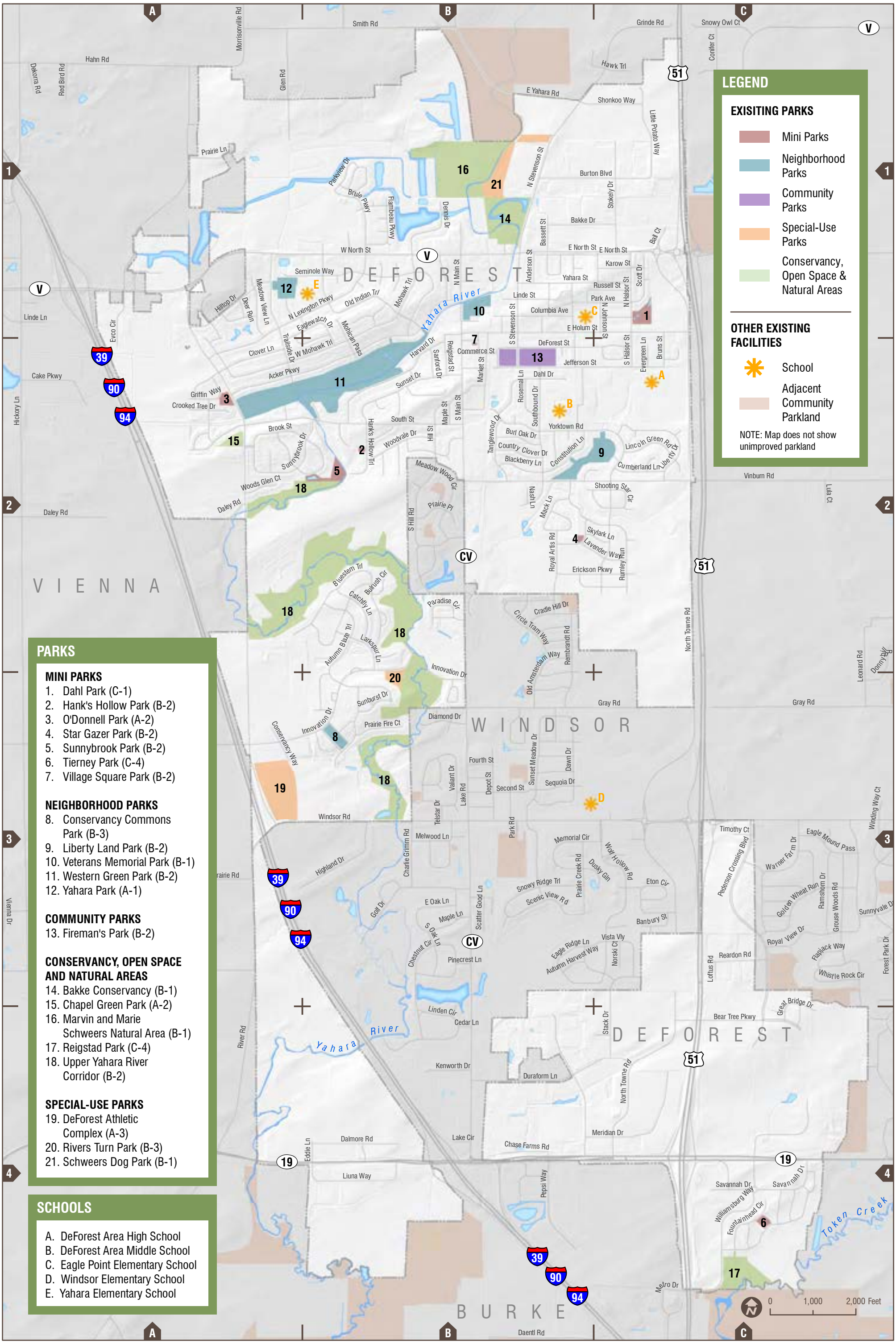
Brandi Cooper, Zoning Administrator

Exhibit A: *Village of DeForest Park & Open Space Plan*, 2020-2024

EXISTING FACILITIES MATRIX

Village of DeForest Parks and Open Spaces

Designation	Park #	Acreage	Facility	PASSIVE AREAS						INFORMAL ACTIVE GAMES						HARD SURFACED COURTS						SEASONAL												TRAILS				SPECIAL EVENT AREAS			SERVICE AND SUPPORT FACILITIES									
				Open Space	Dog Park	Disc golf	Picnic area	Play equipment	Biking/walking	Soccer	Sandlot backstop	Baseball	Softball/Youth baseball	Football	Sand Volleyball	Basketball	Tennis	Pickleball	Horseshoes	Skateboard Area	Exercise Stations	Pool/Splash Pad	Swimming Beach	Golf Course/Driving Range	Community Gardens	Camping Facilities	Ice Skating/Hockey	Sledding	Fishing Area	Xcountry Skiing	Boat Launch	Canoe/Kayak Launch	Pedestrian	Multi-Use	Mountain Bike/BMX	Snowmobile	Performance Stage	Zoo	Event area	Other building	Restrooms	Park Shelter	Pedestrian Access	Transit Capabilities	Drinking Water	ADA Accessibility	Bicycle Parking	Automobile Parking
MINI PARKS																																															
	1	4.06	Dahl Park	◆				◆																																		◆			◆			
	2	0.38	Hank's Hollow Park					◆																																							
	3	1.83	O'Donnell Park				◆	◆	◆																								◆								◆			◆	◆	
	4	0.50	Star Gazer Park	◆			◆	◆																																		◆	◆	◆		◆		
	5	4.31	Sunnybrook Park	◆			◆		◆																								◆	◆							◆			◆			
	6	1.31	Tierney Park				◆	◆								◆	◆	◆																							◆	◆	◆	◆		◆	◆	◆	◆
	7	0.16	Village Square Park																																												
NEIGHBORHOOD PARKS																																															
	8	3.00	Conservancy Commons Park	◆			◆	◆	◆	◆												◆						◆						◆				◆				◆	◆	◆	◆		
	9	11.71	Liberty Land Park	◆			◆	◆	◆	◆														◆									◆	◆						◆		◆	◆				
	10	5.35	Veterans Memorial Park	◆			◆		◆																							◆	◆					◆				◆	◆			◆		◆
	11	61.41	Western Green Park	◆			◆	◆	◆	◆	◆				◆	◆															◆	◆							◆	◆	◆		◆	◆		◆
	12	5.58	Yahara Park				◆	◆				◆																											◆	◆	◆		◆			◆
COMMUNITY PARKS																																															
	13	11.48	Fireman's Park	◆			◆	◆				◆				◆																				◆		◆	◆	◆	◆		◆	◆	◆	◆
CONSERVANCY/NATURAL AREAS																																															
	14	21.73	Bakke Conservancy						◆																								◆								◆						
	15	2.92	Chapel Green Park						◆																								◆	◆							◆						
	16	46.01	Marvin & Marie Schweers Natural Area						◆																								◆														
	17	13.99	Reigstad Park																																						◆						
	18	150.80	Upper Yahara River Corridor				◆		◆															◆				◆			◆		◆	◆							◆						
SPECIAL USE PARKS																																															
	19	23.82	DeForest Athletic Complex				◆	◆		◆		◆	◆	◆			◆	◆																						◆	◆	◆			◆			◆
	20	12.35	Marvin & Marie Schweers Dog Park		◆																																										◆
	21	3.22	Rivers Turn Park	◆			◆														◆																				◆			◆		◆		
TOTAL ACREAGE:		**385.92**																																													


LEGEND
EXISITING PARKS
Mini Parks
Neighborhood Parks
Community Parks
Special-Use Parks
Conservancy, Open Space & Natural Areas
OTHER EXISTING FACILITIES
School
Adjacent Community Parkland
NOTE: Map does not show unimproved parkland
PARKS
MINI PARKS
1. Dahl Park (C-1)
2. Hank's Hollow Park (B-2)
3. O'Donnell Park (A-2)
4. Star Gazer Park (B-2)
5. Sunnybrook Park (B-2)
6. Tierney Park (C-4)
7. Village Square Park (B-2)
NEIGHBORHOOD PARKS
8. Conservancy Commons Park (B-3)
9. Liberty Land Park (B-2)
10. Veterans Memorial Park (B-1)
11. Western Green Park (B-2)
12. Yahara Park (A-1)
COMMUNITY PARKS
13. Fireman's Park (B-2)
CONSERVANCY, OPEN SPACE AND NATURAL AREAS
14. Bakke Conservancy (B-1)
15. Chapel Green Park (A-2)
16. Marvin and Marie Schweers Natural Area (B-1)
17. Reigstad Park (C-4)
18. Upper Yahara River Corridor (B-2)
SPECIAL-USE PARKS
19. DeForest Athletic Complex (A-3)
20. Rivers Turn Park (B-3)
21. Schweers Dog Park (B-1)
SCHOOLS
A. DeForest Area High School
B. DeForest Area Middle School
C. Eagle Point Elementary School
D. Windsor Elementary School
E. Yahara Elementary School
DEFOREST
WINDSOR
VIENNA
BURKE
Yahara River
Smith Rd
Hahn Rd
Daley Rd
Linde Ln
Cake Pkwy
Prairie Ln
Seminole Way
W North St
E North St
Yahara St
Linde St
Columbia Ave
E Holum St
DeForest St
Jefferson St
Dahl Dr
Commerce St
Park Ave
Russell St
Karow St
Burton Blvd
Bakke Dr
Shonkoo Way
E Yahara Rd
Hawk Trl
Grinde Rd
Snowy Owl Ct
Conifer Ct
Little Potato Way
Vinburn Rd
Lula Ct
Shooting Star Cir
Skylark Ln
Lavender Way
Erickson Pkwy
Cradle Hill Dr
Circle Tram Way
Old Amsterdam Way
Rembrandt Rd
North Towne Rd
Leonard Rd
Donny Brook Rd
Gray Rd
Diamond Dr
Innovation Dr
Paradise Cir
Prairie Fire Ct
Sunburst Dr
Bluestem Trl
Bulrush Cir
Catchfly Ln
Larkspur Ln
Autumn Blaze Trl
Conservancy Way
Windsor Rd
Fourth St
Second St
Sequoia Dr
Sunset Meadow Dr
Dawn Dr
Depot St
Valiant Dr
Lake Rd
Telstar Dr
Melwood Ln
Charlie Grimm Rd
Highland Dr
Golf Dr
E Oak Ln
Maple Ln
S Oak Ln
Chestnut Cir
Pinecrest Ln
Scatter Good Ln
Snowy Ridge Trl
Scenic View Rd
Prairie Creek Rd
Dusky Gln
Wolf Hollow Rd
Eton Cir
Banbury St
Eagle Ridge Ln
Autumn Harvest Way
Vista Vly
Norski Ct
Memorial Cir
Park Rd
Timothy Ct
Pederson Crossing Blvd
Eagle Mound Pass
Warner Farm Dr
Golden Wheat Run
Ramshorn Dr
Grouse Woods Rd
Sunnyvale Dr
Royal View Dr
Flapjack Way
Reardon Rd
Loftus Rd
Whistle Rock Cir
Forest Park Dr
Winding Way Ct
Great Bridge Dr
Bear Tree Pkwy
Linden Cir
Cedar Ln
Kenworth Dr
Duraform Ln
Meridian Dr
Chase Farms Rd
Lake Cir
Dalmore Rd
Liuna Way
Eddie Ln
Pepsi Way
Savannah Dr
Savannah Dr
Williamsburg Way
Fountainhead Cir
Token Creek
Metro Dr
Daentl Rd
River Rd
Stack Dr
Royal Artis Rd
Rumley Run
Dennis Dr
Parkview Dr
Brule Pkwy
Flambeau Pkwy
Bassett St
Anderson St
N Main St
N Stevenson St
S Stevenson St
N Johnson St
N Halsor St
S Halsor St
Scott Dr
Bruns St
Evergreen Ln
Rosemal Ln
Southbound Dr
Tanglewood Dr
Burl Oak Dr
Country Clover Dr
Blackberry Ln
Constitution Ln
Lincoln Green Rd
Cumberland Ln
Liberty Dr
Yorktown Rd
Hank's Hollow Trl
Woodvale Dr
Meadow Wood Cir
Prairie Pl
Nash Ln
Mack Ln
Hill St
Maple St
S Main St
Market St
Reigstad St
Sanford Dr
Harvard Dr
Sunset Dr
Acker Pkwy
Griffin Way
Crooked Tree Dr
Brook St
Sunnybrook Dr
Woods Glen Ct
Meadow View Ln
Deer Run
Hilltop Dr
Old Indian Trl
Mohawk Trl
Mohican Pass
Trailside Dr
Eaglewatch Dr
N Lexington Pkwy
W Mohawk Trl
Clover Ln
Evco Cir
Hickory Ln
Morrisonville Rd
Glen Rd
Red Bird Rd
Dekorra Rd
Viennna Dr
Prairie Rd
Old Indian Trl
Skylark Ln
Lavender Way
Royal Artis Rd
Rumley Run
Erickson Pkwy
Cradle Hill Dr
Circle Tram Way
Old Amsterdam Way
Rembrandt Rd
North Towne Rd
Leonard Rd
Donny Brook Rd
Gray Rd
Diamond Dr
Innovation Dr
Paradise Cir
Prairie Fire Ct
Sunburst Dr
Bluestem Trl
Bulrush Cir
Catchfly Ln
Larkspur Ln
Autumn Blaze Trl
Conservancy Way
Windsor Rd
Fourth St
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Sequoia Dr
Sunset Meadow Dr
Dawn Dr
Depot St
Valiant Dr
Lake Rd
Telstar Dr
Melwood Ln
Charlie Grimm Rd
Highland Dr
Golf Dr
E Oak Ln
Maple Ln
S Oak Ln
Chestnut Cir
Pinecrest Ln
Scatter Good Ln
Snowy Ridge Trl
Scenic View Rd
Prairie Creek Rd
Dusky Gln
Wolf Hollow Rd
Eton Cir
Banbury St
Eagle Ridge Ln
Autumn Harvest Way
Vista Vly
Norski Ct
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Pederson Crossing Blvd
Eagle Mound Pass
Warner Farm Dr
Golden Wheat Run
Ramshorn Dr
Grouse Woods Rd
Sunnyvale Dr
Royal View Dr
Flapjack Way
Reardon Rd
Loftus Rd
Whistle Rock Cir
Forest Park Dr
Winding Way Ct
Great Bridge Dr
Bear Tree Pkwy
Linden Cir
Cedar Ln
Kenworth Dr
Duraform Ln
Meridian Dr
Chase Farms Rd
Lake Cir
Dalmore Rd
Liuna Way
Eddie Ln
Pepsi Way
Savannah Dr
Savannah Dr
Williamsburg Way
Fountainhead Cir
Token Creek
Metro Dr
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River Rd
Stack Dr
Royal Artis Rd
Rumley Run
Dennis Dr
Parkview Dr
Brule Pkwy
Flambeau Pkwy
Bassett St
Anderson St
N Main St
N Stevenson St
S Stevenson St
N Johnson St
N Halsor St
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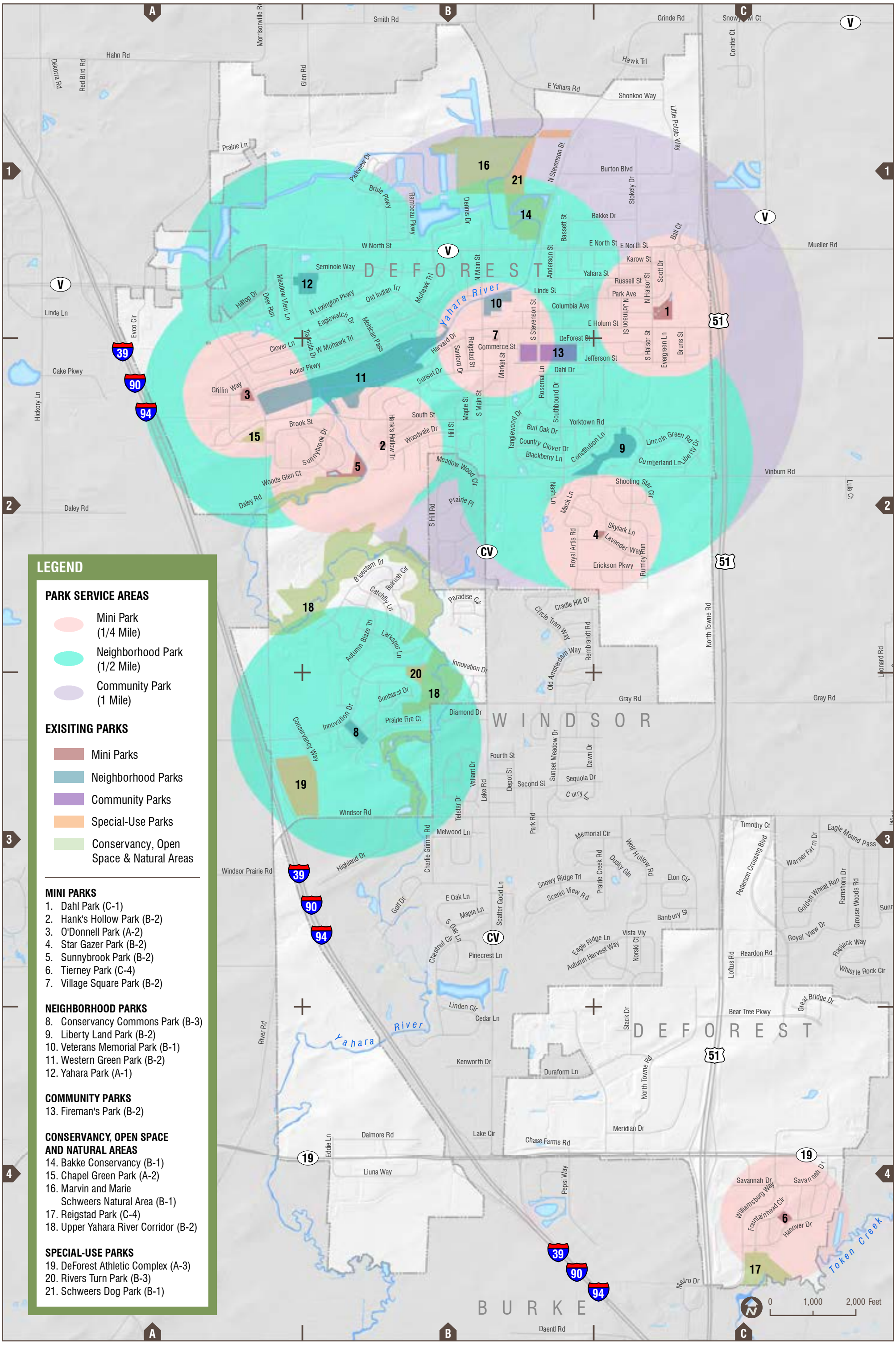
Meadow Wood Cir
Prairie Pl
Nash Ln
Mack Ln
Hill St
Maple St
S Main St
Market St
Reigstad St
Sanford Dr
Harvard Dr
Sunset Dr
Acker Pkwy
Griffin Way
Crooked Tree Dr
Brook St
Sunnybrook Dr
Woods Glen Ct
Meadow View Ln
Deer Run
Hilltop Dr
Old Indian Trl
Mohawk Trl
Mohican Pass
Trailside Dr
Eaglewatch Dr
N Lexington Pkwy
W Mohawk Trl
Clover Ln
Evco Cir
Hickory Ln
Morrisonville Rd
Glen Rd
Red Bird Rd
Dekorra Rd
Viennna Dr
Prairie Rd
Yahara River
0 1,000 2,000 Feet
AYRES ASSOCIATES
Existing Parks
DeForest Park & Open Space Plan
MAP 1
Village of DeForest
306 DeForest Street
DeForest, WI 53532
Project 52-0661 • 8.26.2019



LEGEND

PARK SERVICE AREAS

- Mini Park (1/4 Mile)
- Neighborhood Park (1/2 Mile)
- Community Park (1 Mile)

EXISITING PARKS

- Mini Parks
- Neighborhood Parks
- Community Parks
- Special-Use Parks
- Conservancy, Open Space & Natural Areas

MINI PARKS

1. Dahl Park (C-1)
2. Hank's Hollow Park (B-2)
3. O'Donnell Park (A-2)
4. Star Gazer Park (B-2)
5. Sunnybrook Park (B-2)
6. Tierney Park (C-4)
7. Village Square Park (B-2)

NEIGHBORHOOD PARKS

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18. Upper Yahara River Corridor (B-2)

SPECIAL-USE PARKS

19. DeForest Athletic Complex (A-3)
20. Rivers Turn Park (B-3)
21. Schweers Dog Park (B-1)

AYRES ASSOCIATES

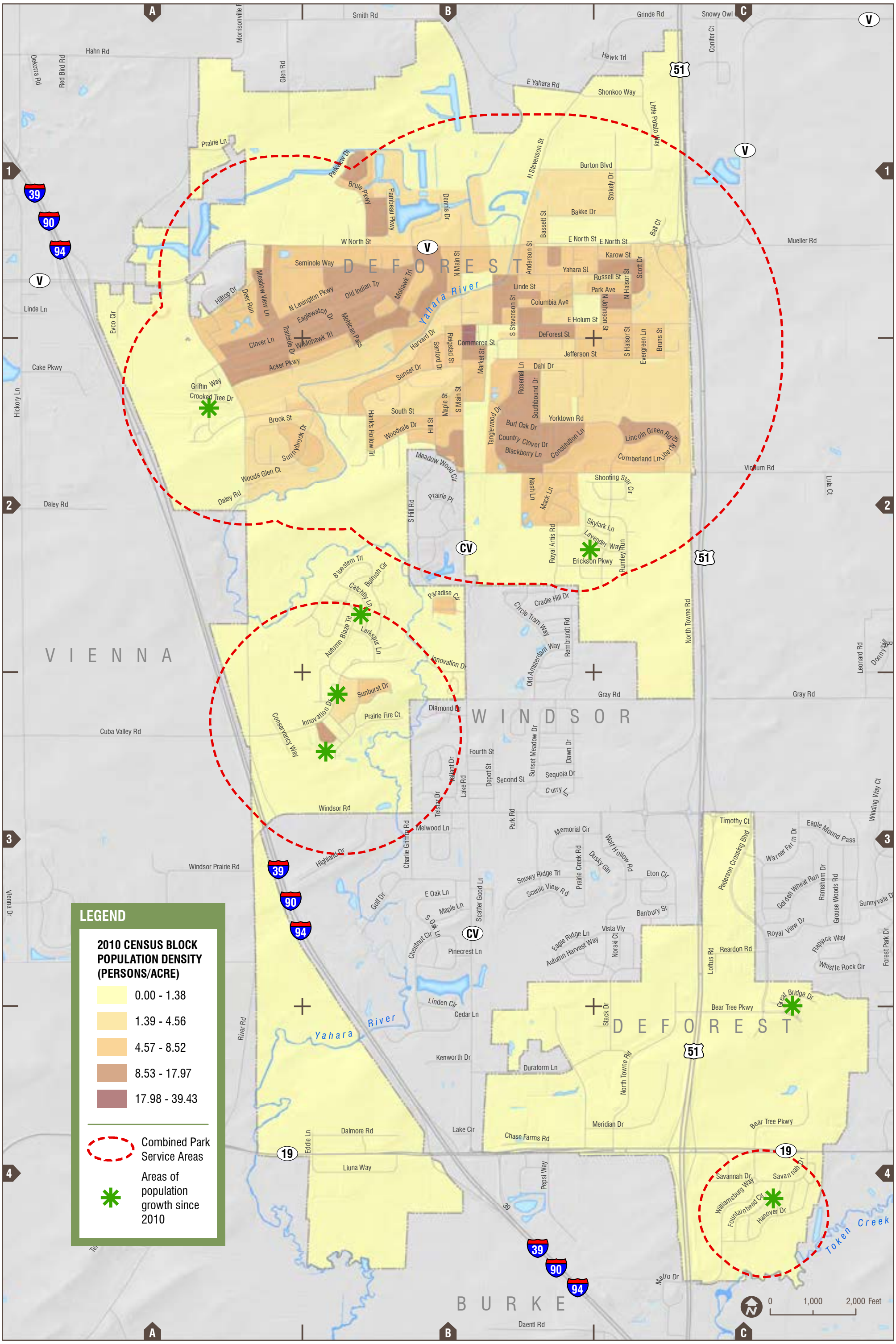
Park Service Areas

DeForest Park & Open Space Plan

MAP 2

Village of DeForest
306 DeForest Street
DeForest, WI 53532

Project 52-0661 • 8.26.2019



LEGEND

2010 CENSUS BLOCK POPULATION DENSITY (PERSONS/ACRE)

- 0.00 - 1.38
- 1.39 - 4.56
- 4.57 - 8.52
- 8.53 - 17.97
- 17.98 - 39.43

Combined Park Service Areas

Areas of population growth since 2010

Population Density

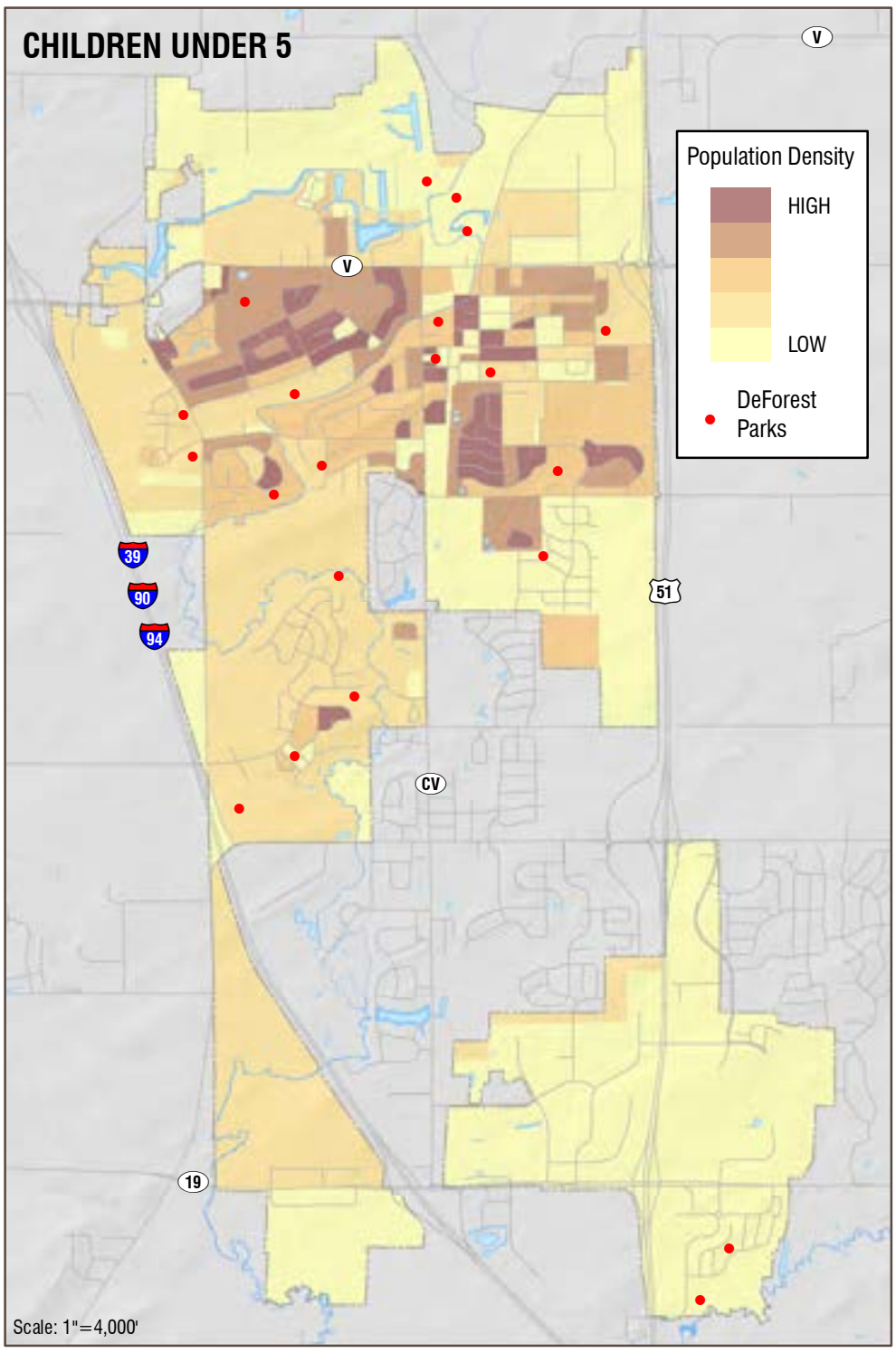
DeForest Park & Open Space Plan

MAP 3

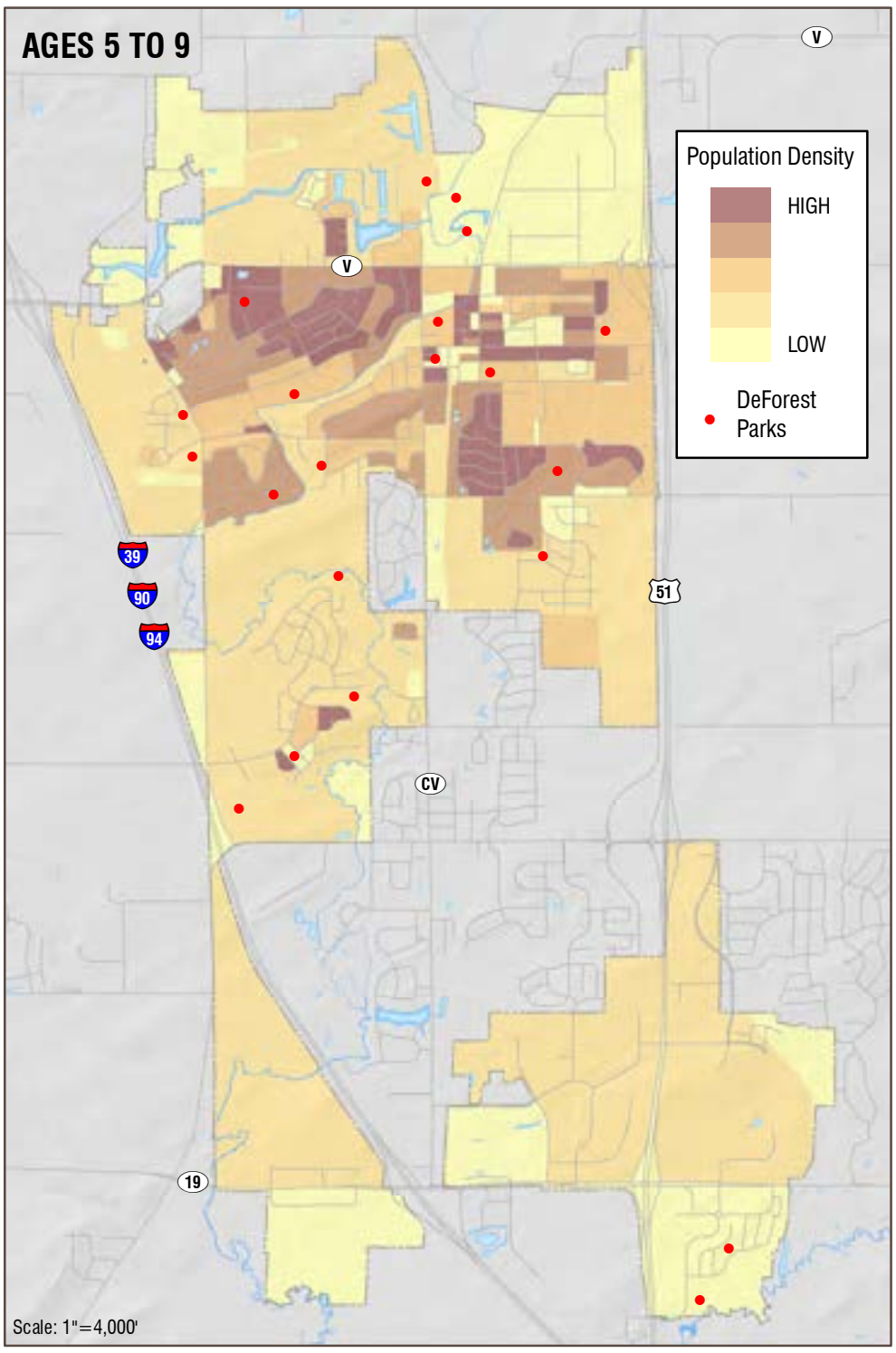
Village of DeForest
306 DeForest Street
DeForest, WI 53532

Project 52-0661 • 8.26.2019

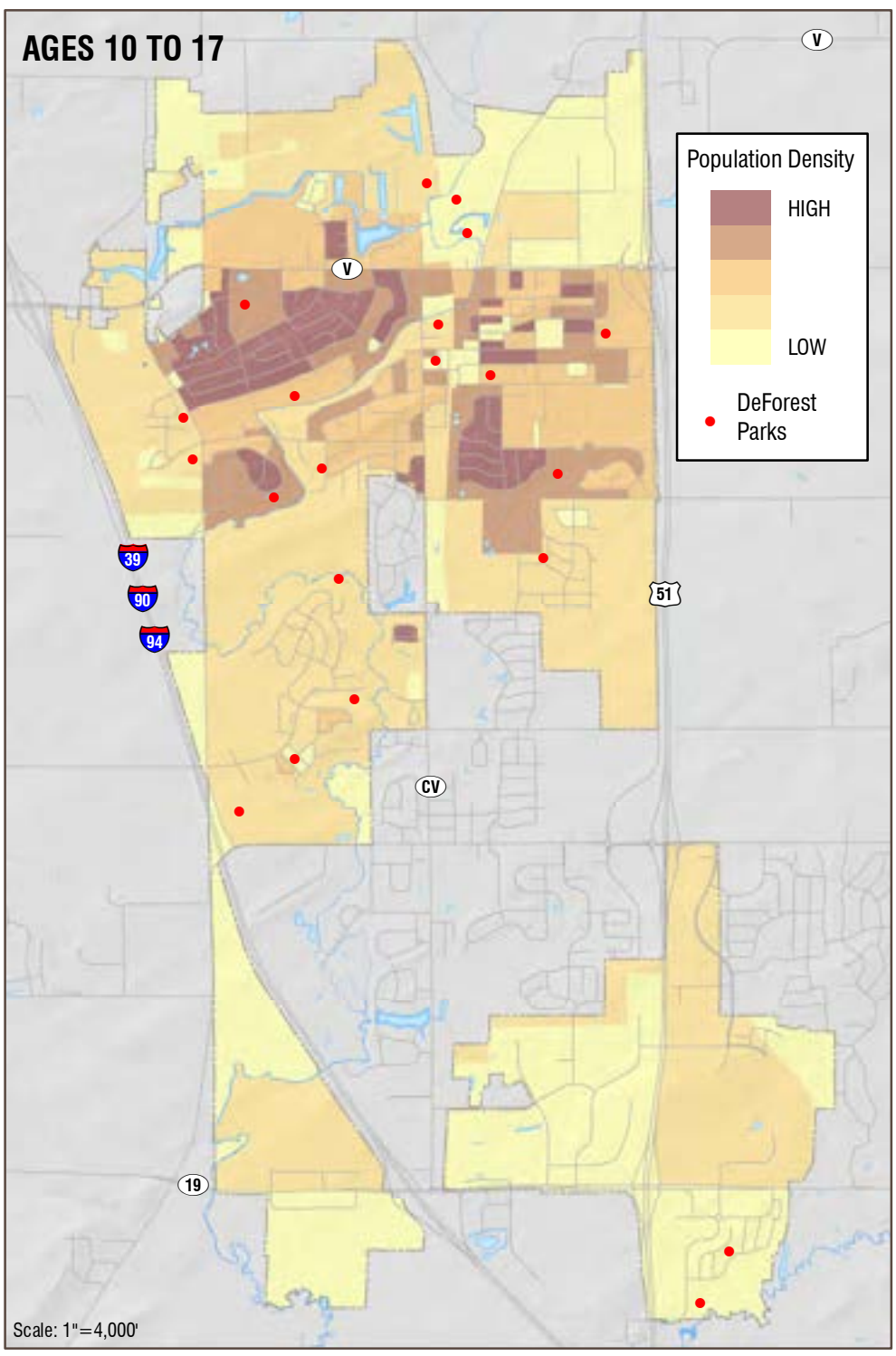
CHILDREN UNDER 5



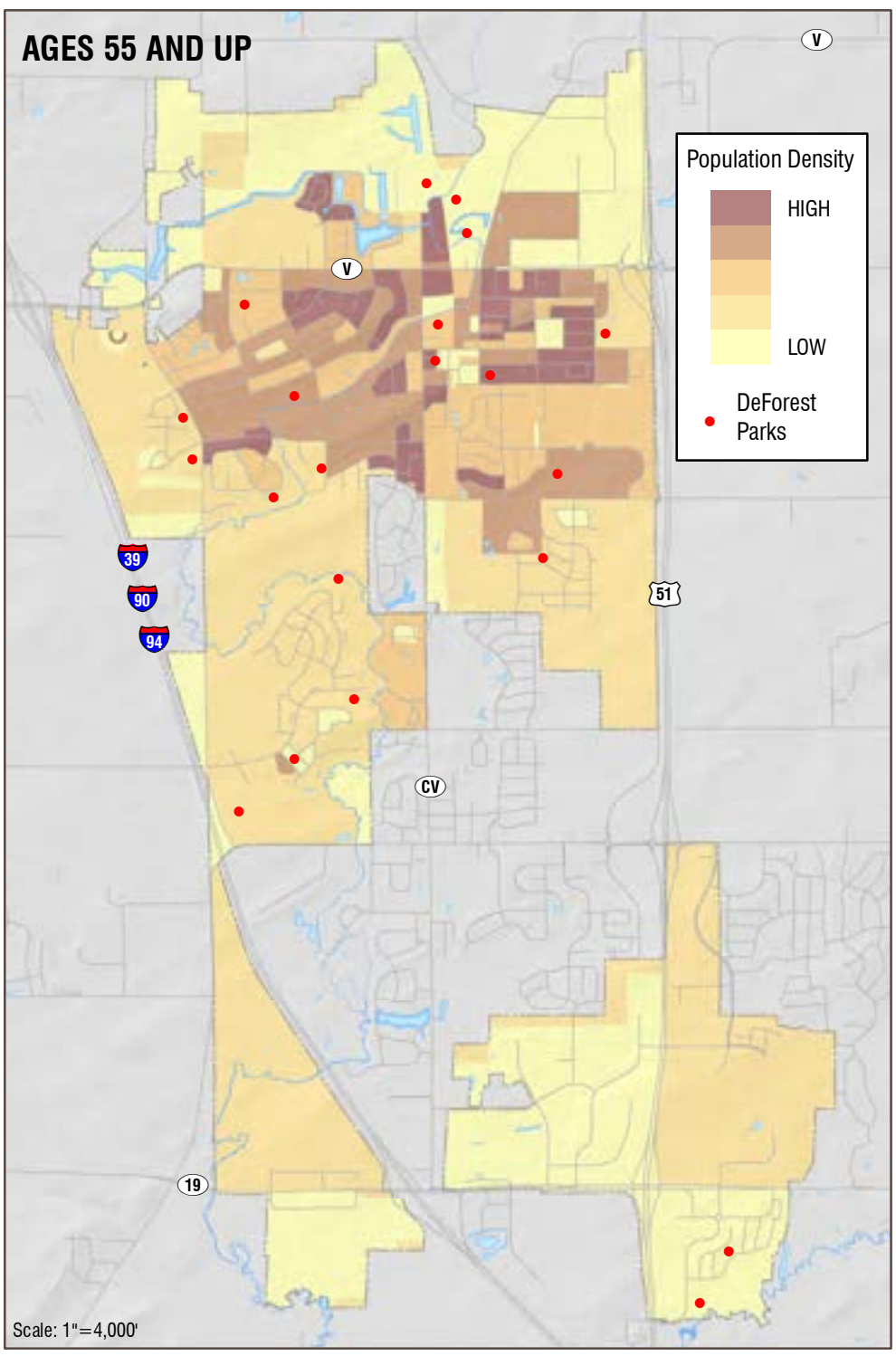
AGES 5 TO 9



AGES 10 TO 17



AGES 55 AND UP



AYRES ASSOCIATES

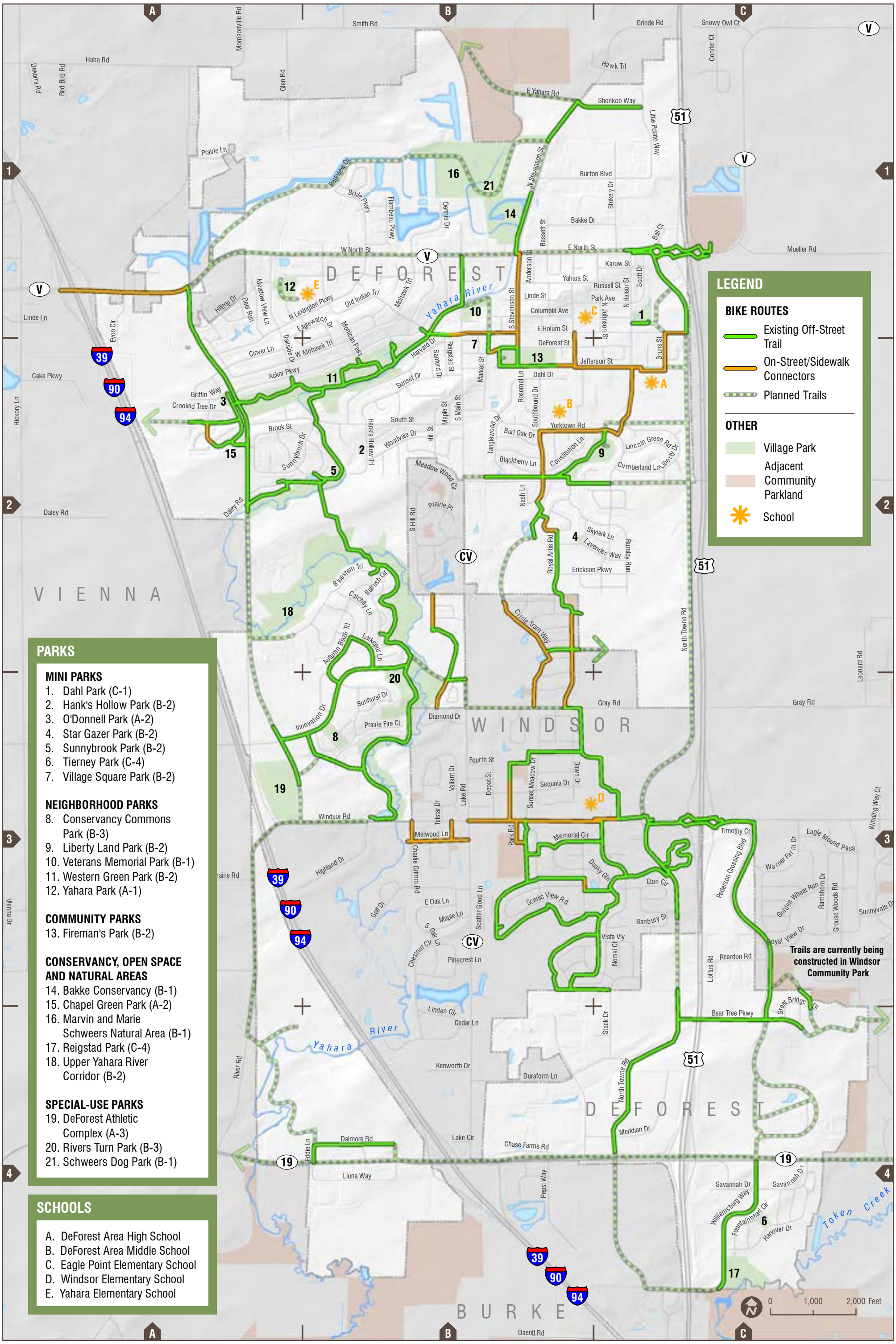
Population Density

DeForest Park & Open Space Plan

MAP 4

Village of DeForest
306 DeForest Street
DeForest, WI 53532

Project 52-0661 • 8.20.2019



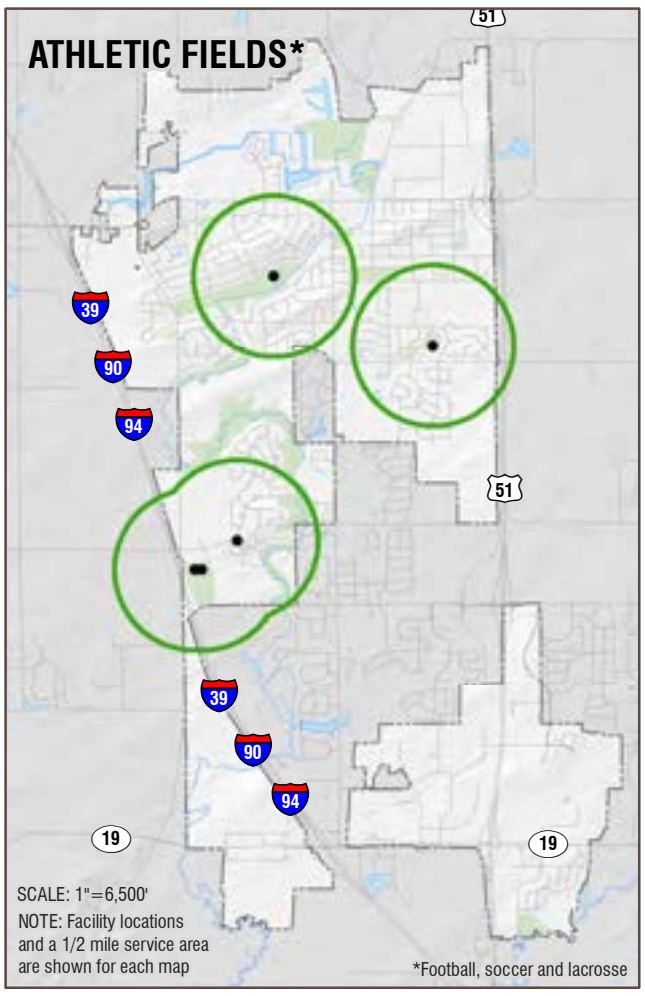
Bicycle Routes

DeForest Park & Open Space Plan

MAP 5

Village of DeForest
306 DeForest Street
DeForest, WI 53532
Project 52-0661 •9.27.2019

ATHLETIC FIELDS*

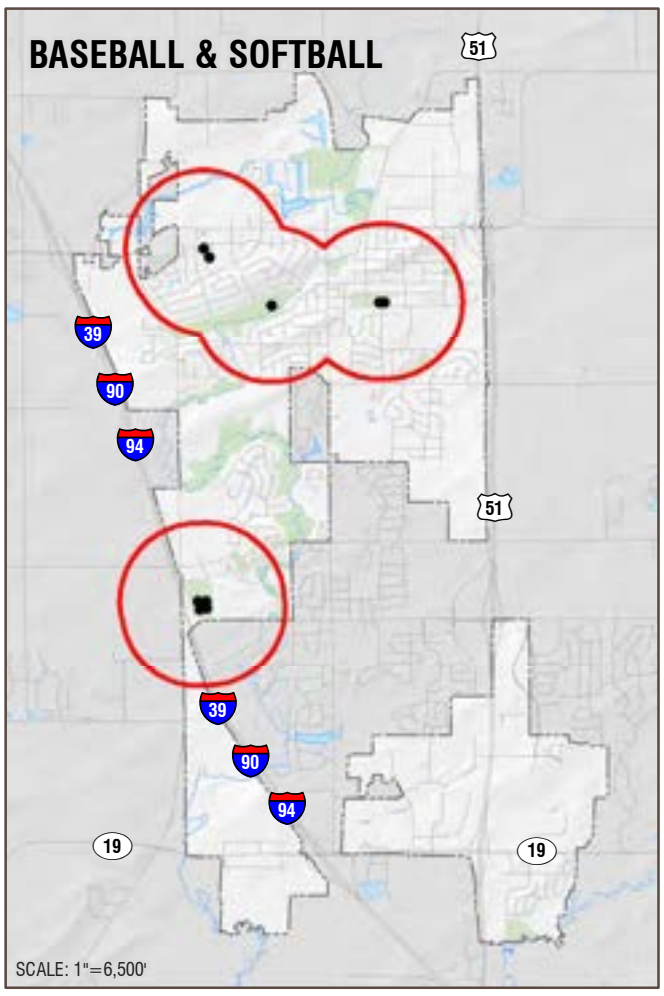


SCALE: 1"=6,500'

NOTE: Facility locations and a 1/2 mile service area are shown for each map

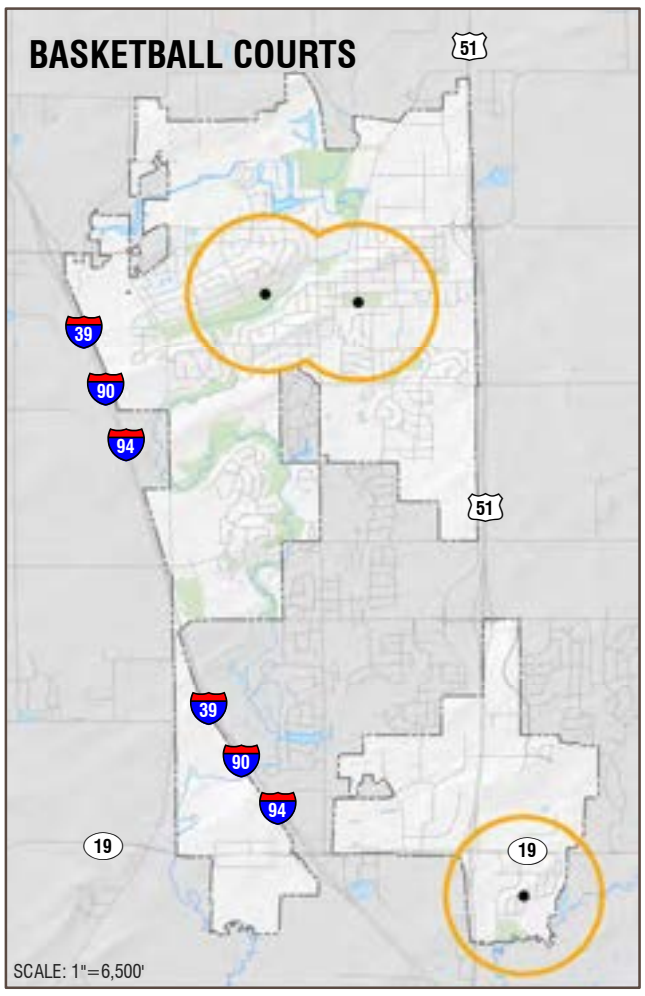
*Football, soccer and lacrosse

BASEBALL & SOFTBALL



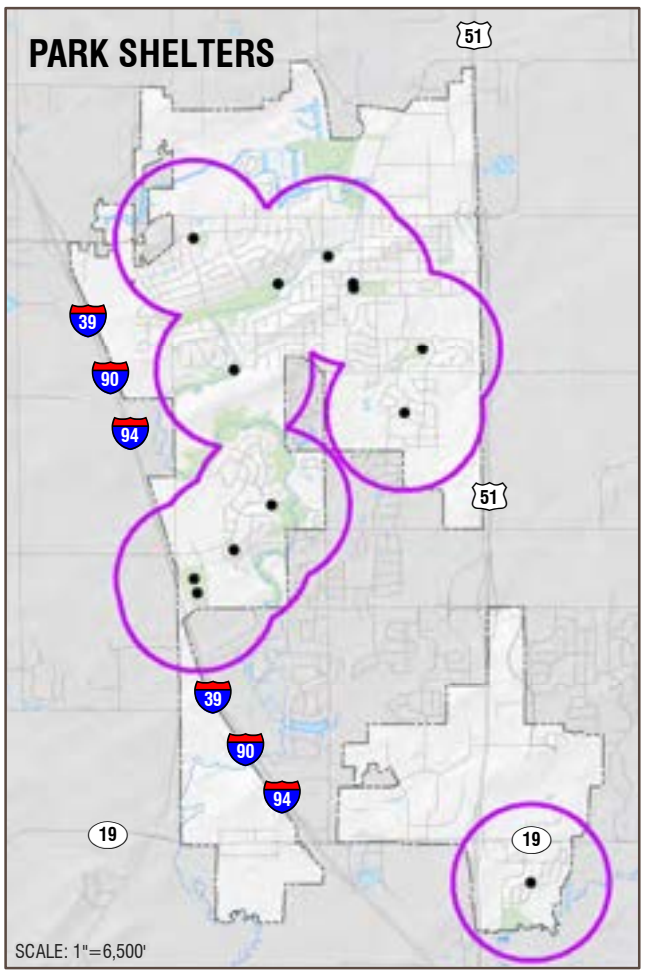
SCALE: 1"=6,500'

BASKETBALL COURTS



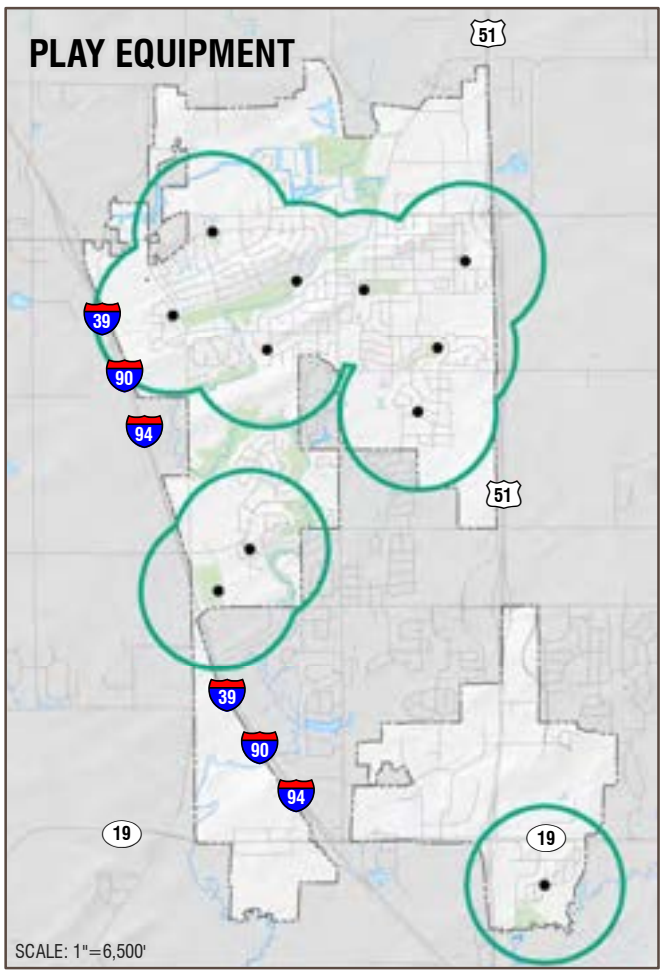
SCALE: 1"=6,500'

PARK SHELTERS



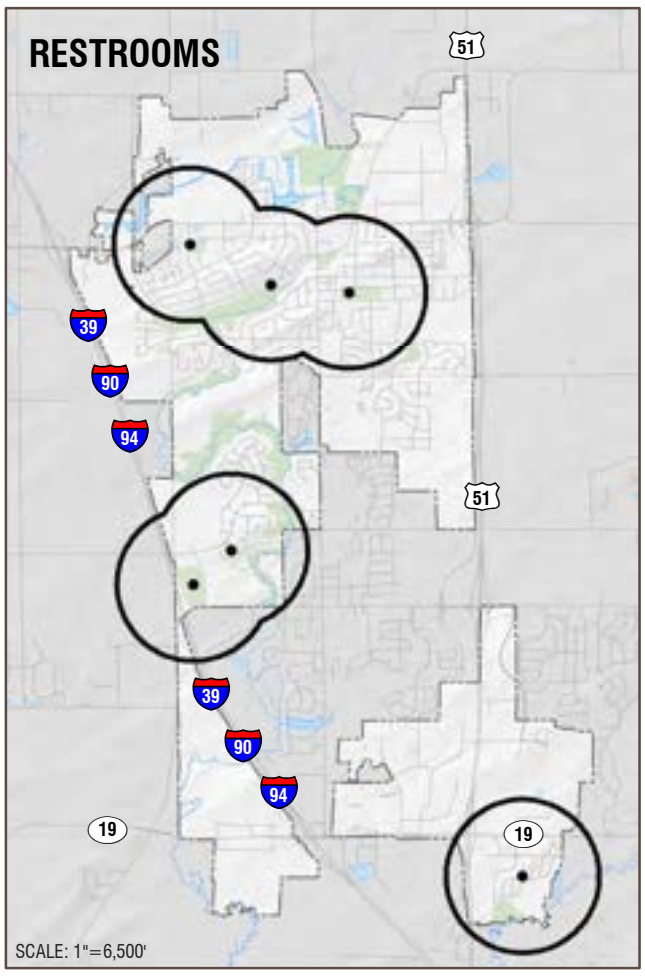
SCALE: 1"=6,500'

PLAY EQUIPMENT



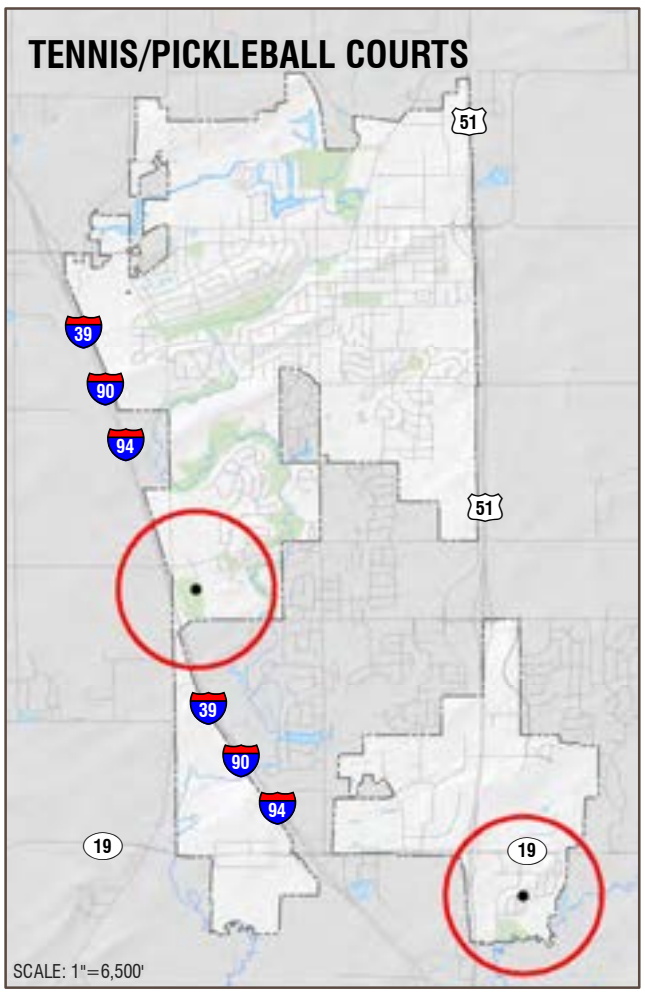
SCALE: 1"=6,500'

RESTROOMS



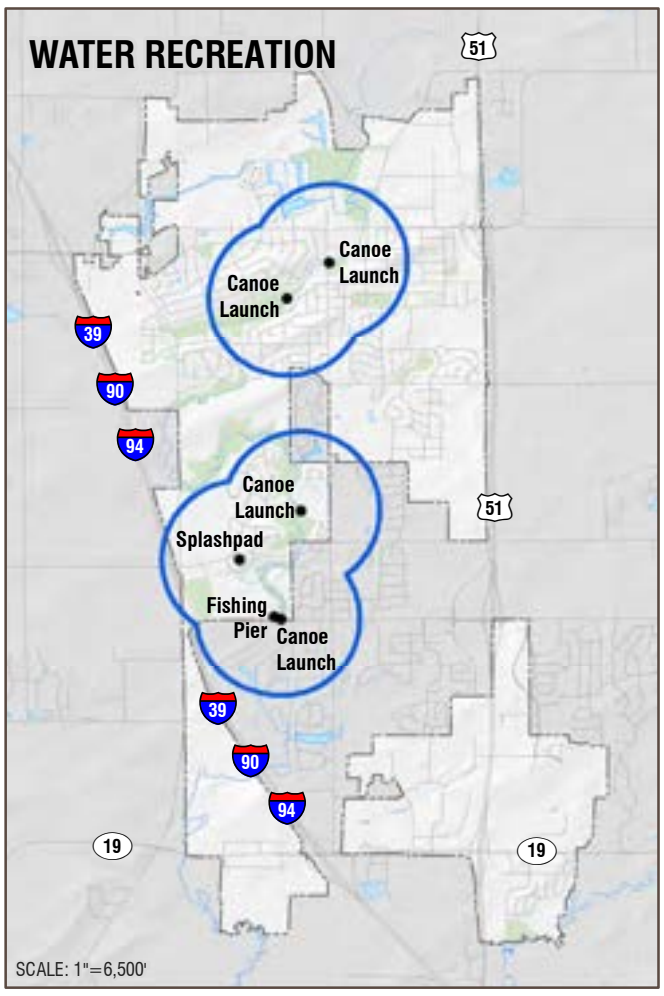
SCALE: 1"=6,500'

TENNIS/PICKLEBALL COURTS



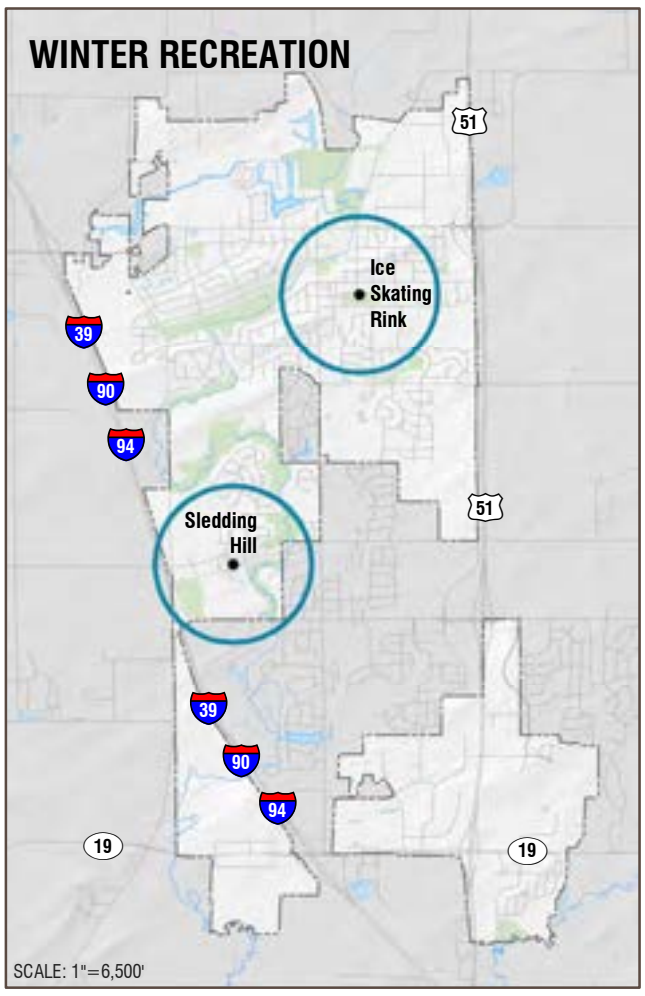
SCALE: 1"=6,500'

WATER RECREATION



SCALE: 1"=6,500'

WINTER RECREATION



SCALE: 1"=6,500'

AYRES ASSOCIATES

Park Facility Distribution

DeForest Park & Open Space Plan

MAP 6

Village of DeForest
306 DeForest Street
DeForest, WI 53532

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What is the purpose of this map?

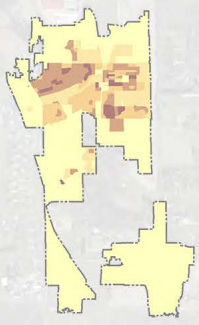
1. To determine if there are areas of the Village underserved by Village parks. The most underserved areas are indicated on the map by the yellow, dashed polygons.The Village may want to consider these areas first when planning for the installation of new park facilities.

2. To identify parks in which the facilities may be subject to heavy use. High population combined with few alternative facilities may result in higher than normal use of existing facilities. Parks near these areas therefore may require more maintenance and repair than otherwise expected.

Potentially Underserved Areas

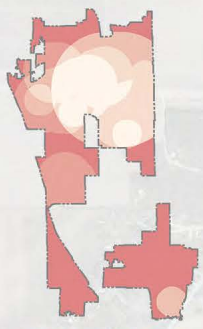
This map is an overlay of maps A & B and represents areas that are potentially underserved in terms of access to park facilities. Darker areas are areas that are both highly populated and without park facilities nearby.

A Population Density



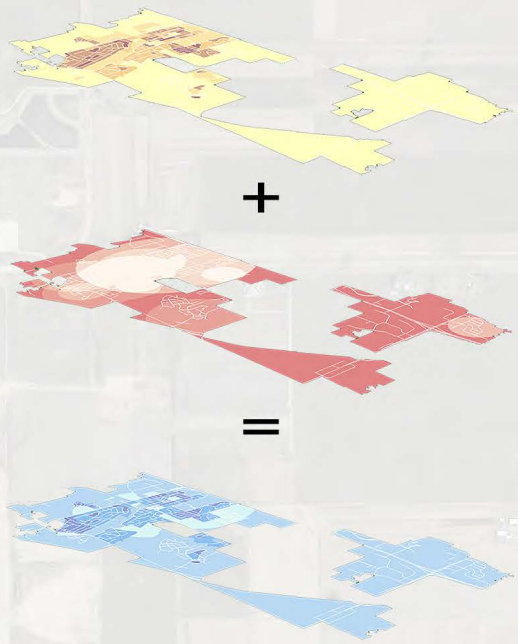
Darker areas represent areas with higher population density.

B Park Facility Density



Darker areas represent areas with fewer available park facilities nearby.

Overlay Analysis



Overlay Analysis is a GIS technique in which each cell (pixel) of a raster layer is added to the corresponding cell from another raster layer. This creates a third layer which is an overlayed sum or average of the two rasters. In this example, the value of each cell in the newly created raster is higher for cells that are both high in population density and low in facility density.

0 1,100 2,200 Feet

AYRES ASSOCIATES

Potentially Underserved Areas

DeForest Park & Open Space Plan

MAP 7

Village of DeForest
306 DeForest Street
DeForest, WI 53532

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Overlay of population density and access to park facilities by age group

This map uses the same technique as Map 7 in that population density and park facility data layers are overlayed to create a new layer. The resulting layer in Map 7 gave new information about what areas of the Village might be in need of new facilities. This group of maps also show the overlay of population density and park facilities, but with a focus on four specific age groups. This gives information not only on where new facilities might be needed but also what type of facilities should be installed.

Darker areas indicate less access to park facilities designed for the specific age group and at the same time a high population density of that specific age group.

Examples of park facilities by age group:

Under 5 - Toddler swings, sandboxes, sandbox diggers, tot slides, spring riders and tilt cups.

5 to 9 - Standard swings, climbing structures, teeter totters, standard slides, merry-go-rounds and monkey bars.

10 to 17 - Baseball/softball fields, basketball courts, sand volleyball courts, skate parks and ice rinks.

55 & up - Hiking trails, outdoor fitness stations, boat launches, pickle ball and tennis.

LEGEND

Need for additional facilities

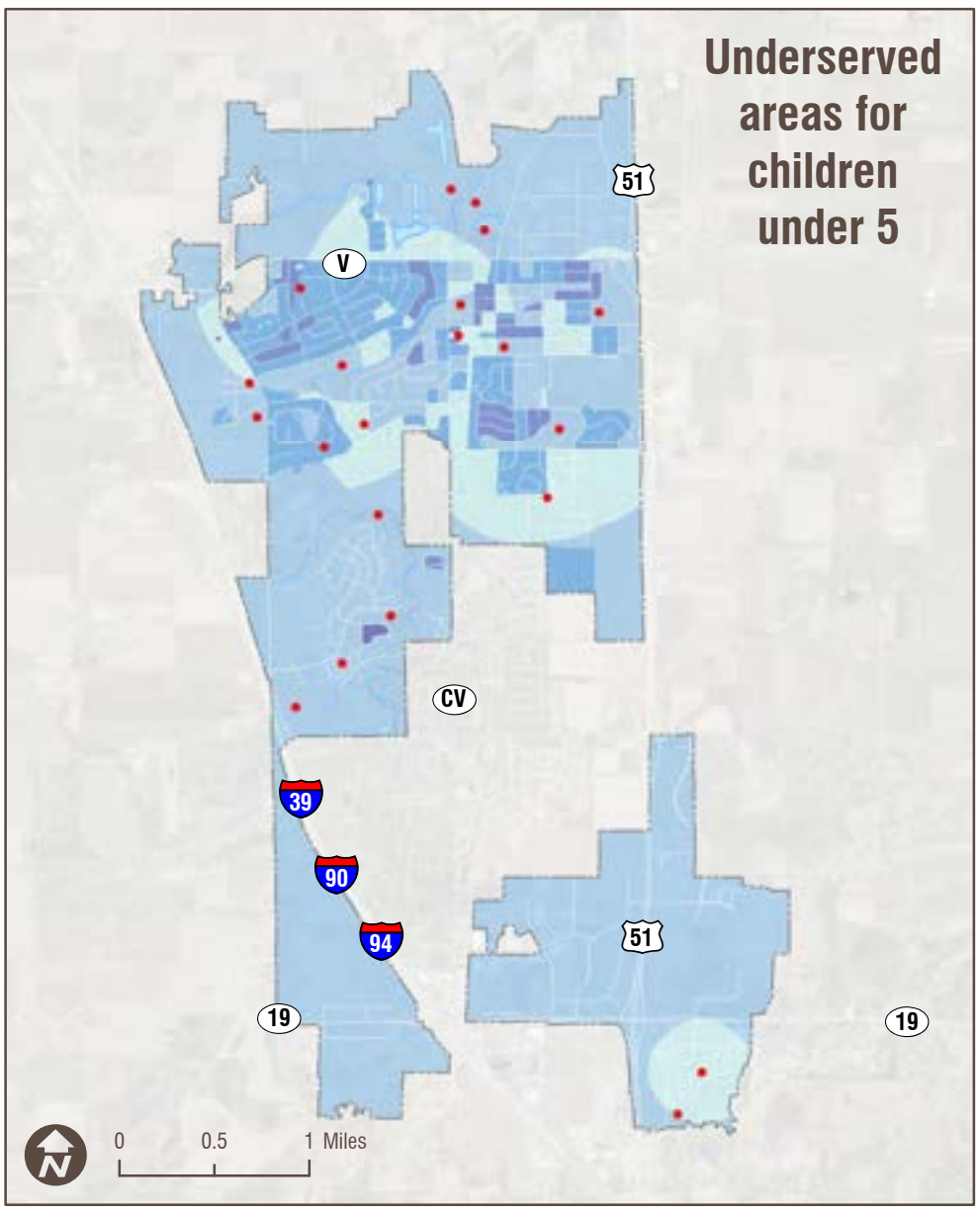
Low — High

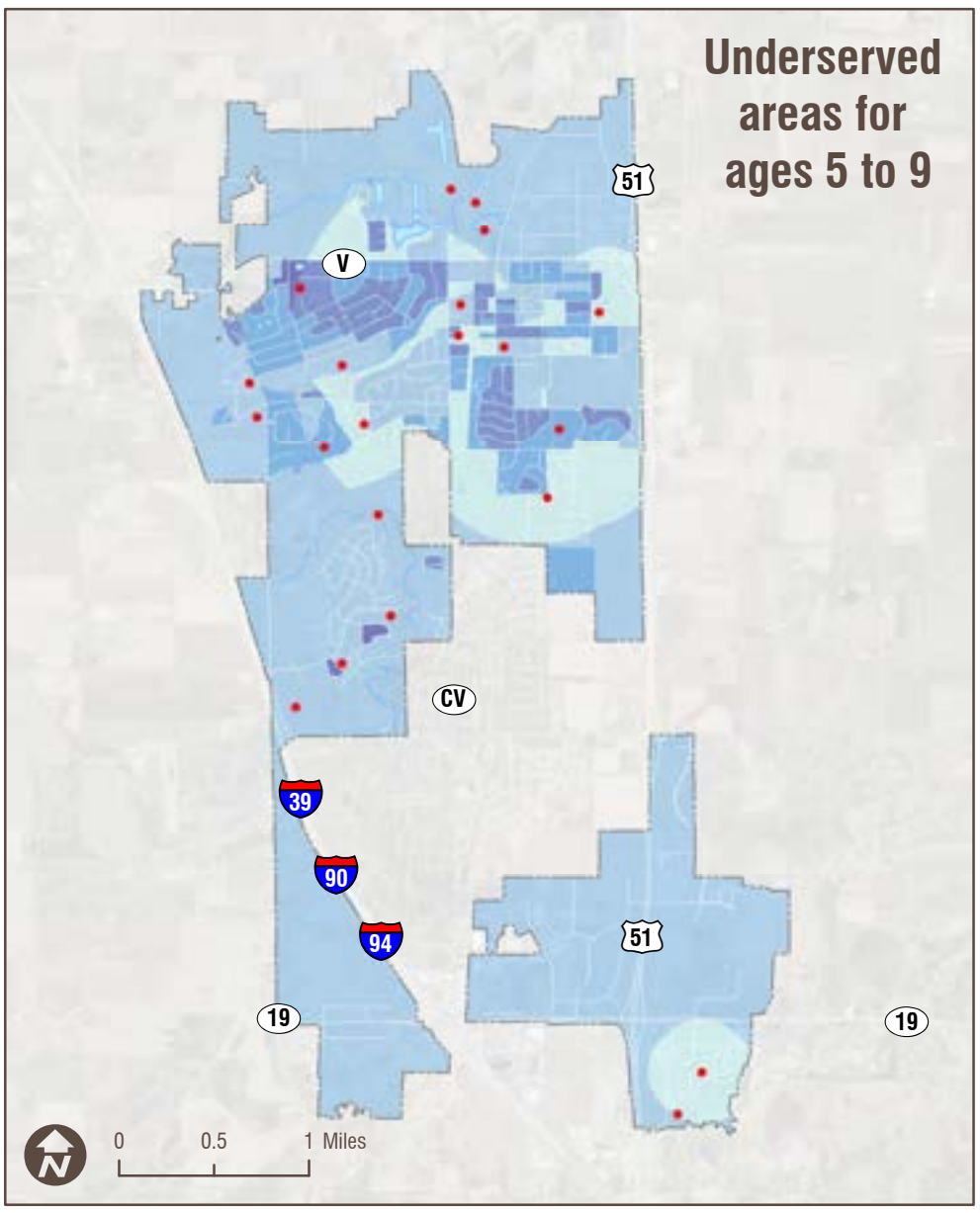
Parks

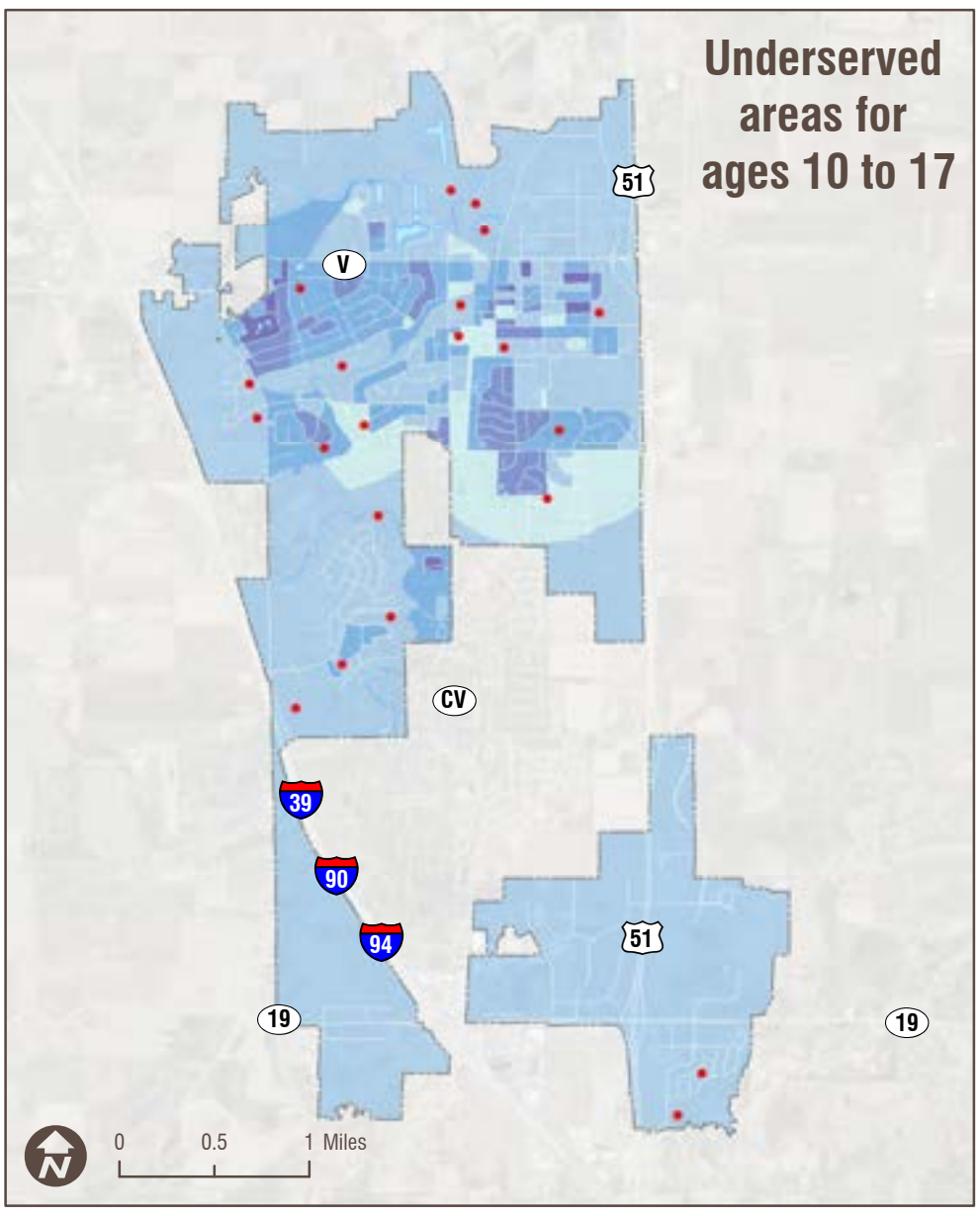
Data sources: U.S Census Bureau 2010 Block Population Data, Dane County, Wisconsin State Cartographers Office, WisconsinView

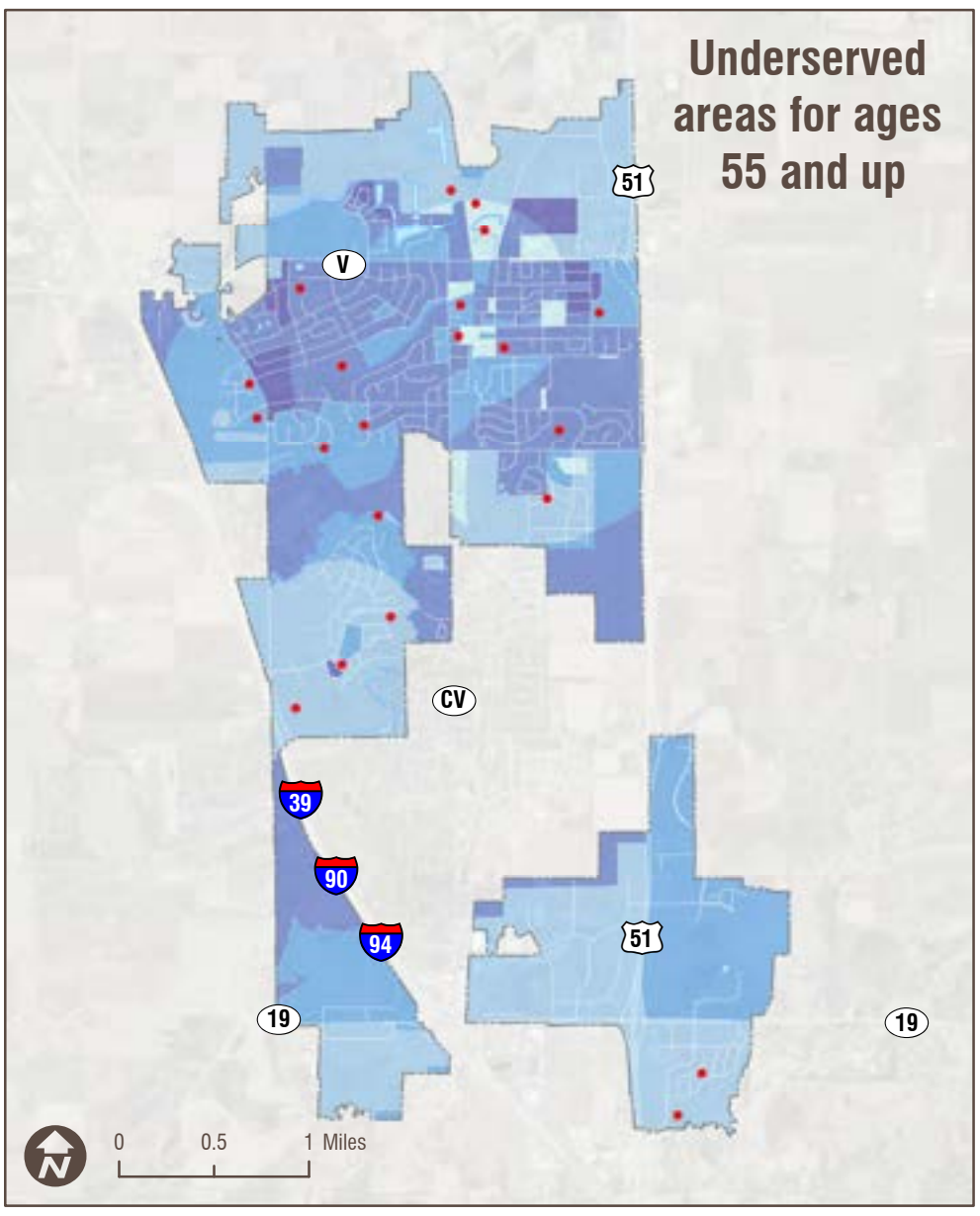
Coordinate System: NAD 1983 HARN Wisconsin CRS Dane

PROJECT LOCATION









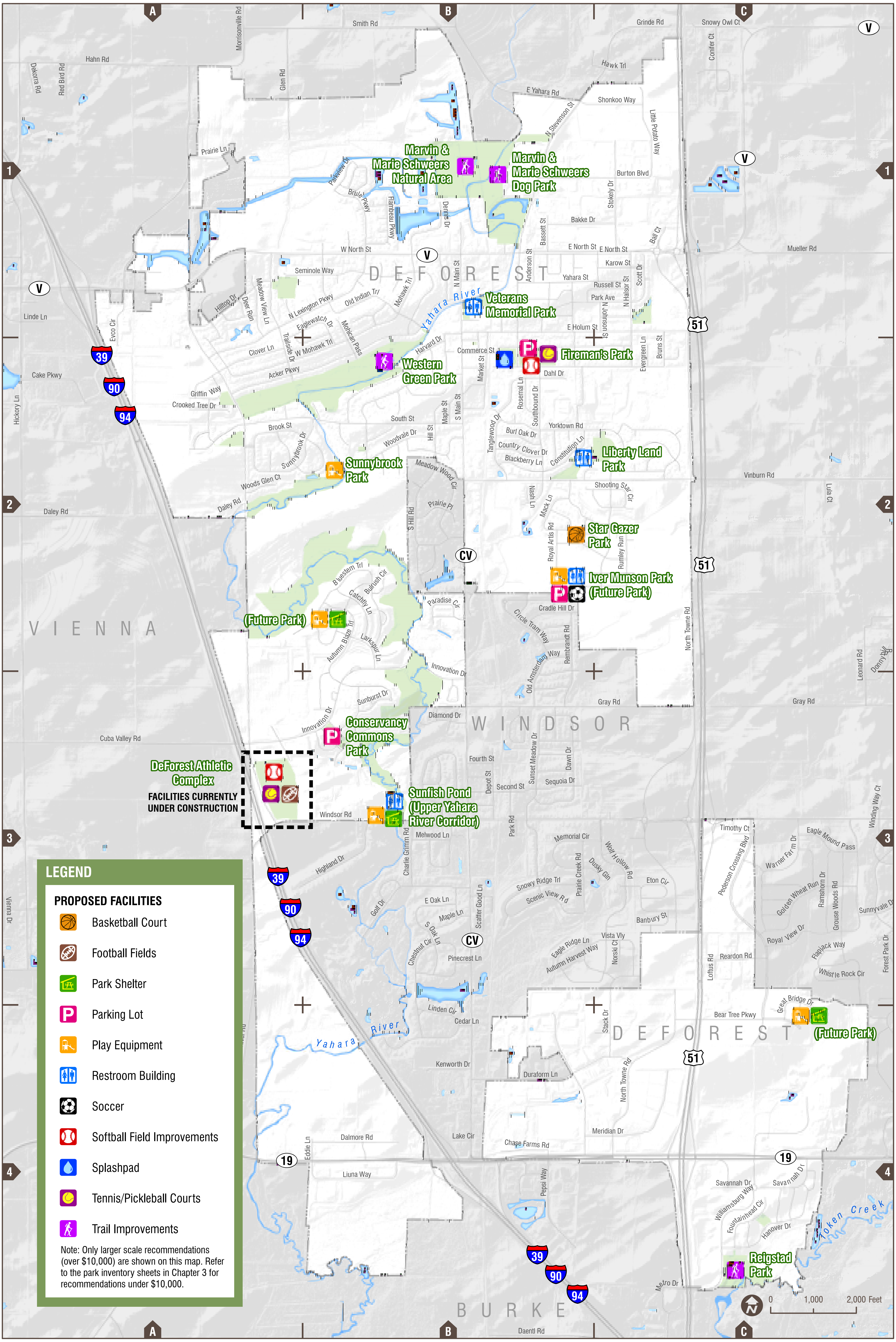
AYRES ASSOCIATES

Age Cohort Analysis

DeForest Park & Open Space Plan

MAP 8

Village of DeForest
306 DeForest Street
DeForest, WI 53532
Project 52-0661 • 8.26.2019



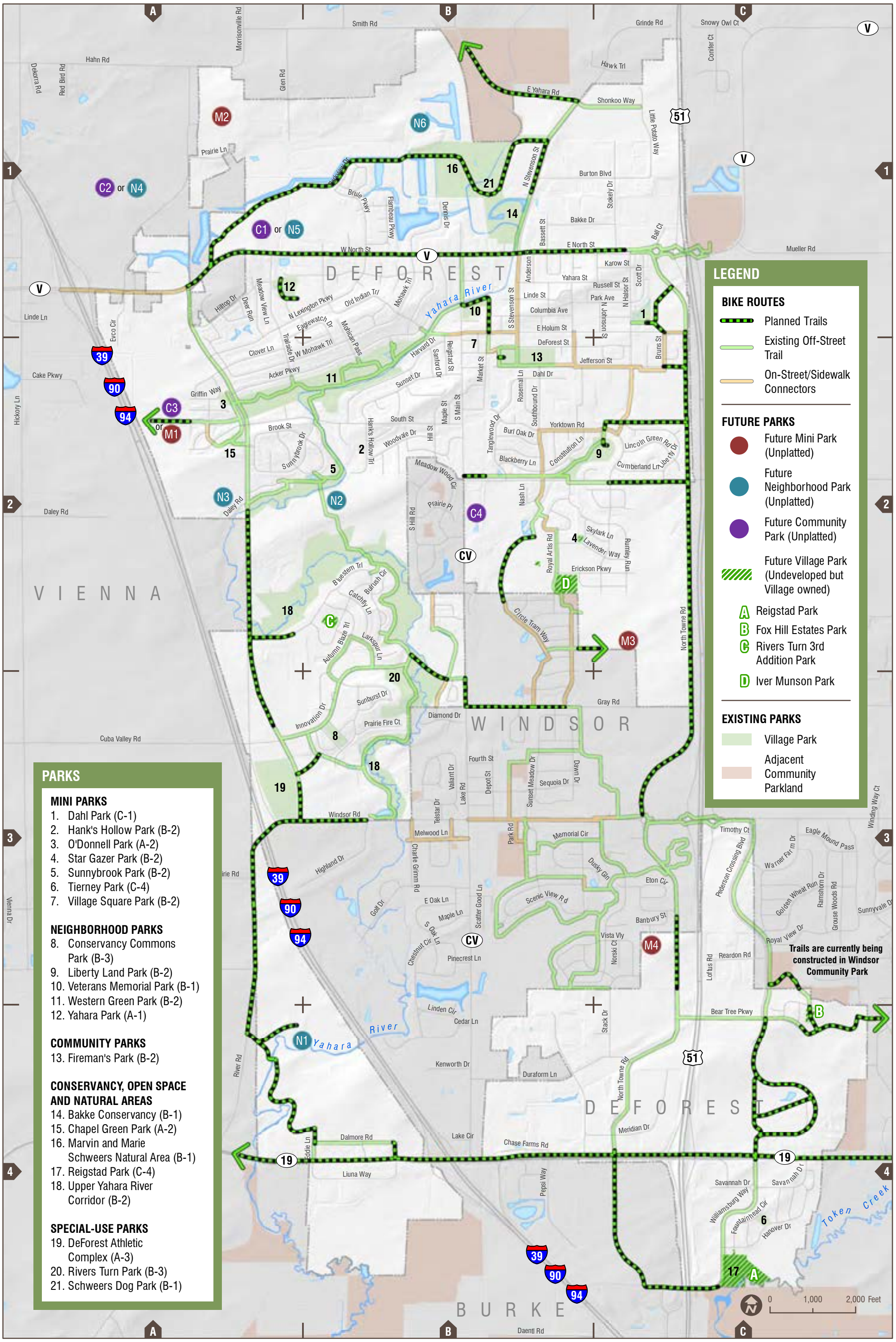
AYRES ASSOCIATES

Proposed Facilities

DeForest Park & Open Space Plan

MAP 9

Village of DeForest
306 DeForest Street
DeForest, WI 53532
Project 52-0661 • 8.27.2019



PARKS

MINI PARKS
1. Dahl Park (C-1)
2. Hank's Hollow Park (B-2)
3. O'Donnell Park (A-2)
4. Star Gazer Park (B-2)
5. Sunnybrook Park (B-2)
6. Tierney Park (C-4)
7. Village Square Park (B-2)

NEIGHBORHOOD PARKS
8. Conservancy Commons Park (B-3)
9. Liberty Land Park (B-2)
10. Veterans Memorial Park (B-1)
11. Western Green Park (B-2)
12. Yahara Park (A-1)

COMMUNITY PARKS
13. Fireman's Park (B-2)

CONSERVANCY, OPEN SPACE AND NATURAL AREAS
14. Bakke Conservancy (B-1)
15. Chapel Green Park (A-2)
16. Marvin and Marie Schweers Natural Area (B-1)
17. Reigstad Park (C-4)
18. Upper Yahara River Corridor (B-2)

SPECIAL-USE PARKS
19. DeForest Athletic Complex (A-3)
20. Rivers Turn Park (B-3)
21. Schweers Dog Park (B-1)

LEGEND

BIKE ROUTES
- Planned Trails
- Existing Off-Street Trail
- On-Street/Sidewalk Connectors

FUTURE PARKS
- Future Mini Park (Unplatted)
- Future Neighborhood Park (Unplatted)
- Future Community Park (Unplatted)
- Future Village Park (Undeveloped but Village owned)
- A Reigstad Park
- B Fox Hill Estates Park
- C Rivers Turn 3rd Addition Park
- D Iver Munson Park

EXISTING PARKS
- Village Park
- Adjacent Community Parkland

Future Parks & Trails

DeForest Park & Open Space Plan

MAP 10

AYRES ASSOCIATES

Village of DeForest
306 DeForest Street
DeForest, WI 53532

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