JCPRD Natural Resource Plan Update



Building a County Conservation Success Story











The only special park district in Kansas.

7 million park visitors a year

10,243 acres of park land

2 million recreational program participants

151 miles of trails











Bluebird Capital of KS due to the early success of the bluebird nest box program starting in 1990.

Program evolved from independent citizen action to formal program.

Extension Master Naturalist are key JCPRD partners in conservation.







2019 Natural Resource Plan

Identify Natural Areas owned by JCPRD

Specify how best to restore and regularly manage.

8,700 of 10,000 park acres are natural areas

Most of them the only refuges for high quality plant communities and uncommon wildlife.

Analyze the Natural Resource Program

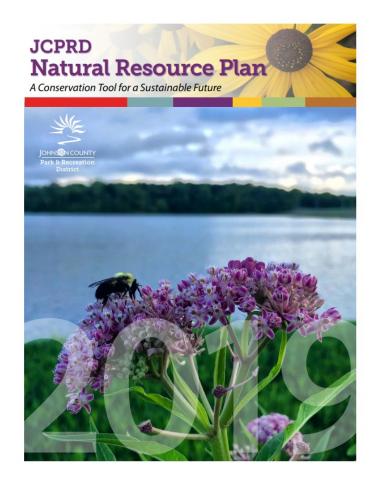
Consultants analyzed the current program and benchmarked against 5 counties with populations over 350,000.

Community engagement

Created a stakeholder advisory panel for guidance and received 1,372 community responses.

Implementation and Funding

Created Priorities, Costs, and Phasing for district wide restoration projects. The park board has funded \$2.5 million dollars in additional funding since 2019.









2019 Natural Resource Plan

The forests, prairies, waters, and wildlife in JCPRD's parks and streamways will be protected, restored, well-managed to be diverse and long lasting for the enjoyment of all people now and in the future.

Protect sensitive natural resources in order to foster resilient and biodiverse natural areas within JCPRD Parks.

Tell the ecological story of JCPRD Parks to inspire people through restoration.









Evolution of the Natural Resource Work Group



Field Biologist hired December 2011

First resource technician hired 2018.

Natural Resource Plan adopted in 2019

Second resource technician hired in 2020

Third resource technician hired in 2023

Natural Resource Internship Begins 2024









2019 Land Cover

Figure 2. Acreage of Different Land Covers in JCPRD Parks

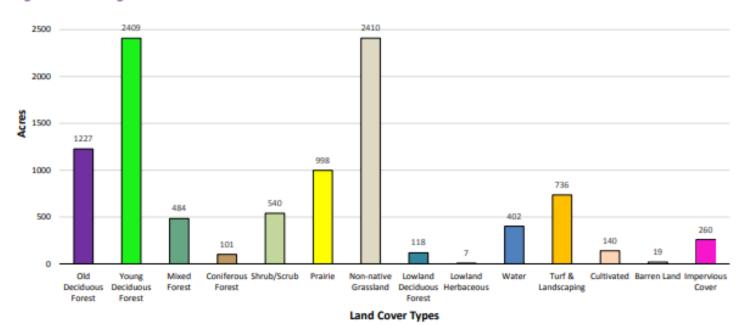


Table 2. Land Cover Types and Rankings in JCPRD Parks

| Land Cover Type | Acres | Percent of Study Area | Global & State Priority Rank ¹ | | |
|--------------------------|----------------------|--------------------------|--|--|--|
| NATURAL LAND COVERS | 8,695.9 | 88.28 | N/A | | |
| Upland Communities | 8,169.1 | 82.9 | N/A | | |
| Forest/Woodland | 4,221.1 | 42.9 | N/A | | |
| Old Deciduous Forest | 1,227.0 | 12.5 | G2G3/S2 | | |
| Young Deciduous Forest | 2,409.1 | 24.5 | GU/SU | | |
| Mixed Forest | 483.6 | 4.9 | GU/SU | | |
| Coniferous Forest | 101.4 | 1.0 | GU/SU | | |
| Savanna/Brushland | 539.9 | 5.5 | N/A | | |
| Shrub/Scrub | 539.9 | 5.5 | N/A | | |
| Herbaceous | 3,408.1 | 34.6 | N/A | | |
| Prairie | 998.1 | 10.1 | G2G3/S2S3 | | |
| Non-native Grassland | 2,410.0 | 24.5 | N/A | | |
| Lowland Communities | 526.8 | 5.3 | N/A | | |
| Lowland Deciduous Forest | 118.1 | 1.2 | G3/S2 | | |
| Lowland Herbaceous | 7.2 | 0.1 | GU/S1S2SU | | |
| Water | 401.5 | 4.1 | N/A | | |
| CULTURAL LAND COVERS | 1,154.9 | 11.7 | N/A | | |
| Turf & Landscaping | 736.4 | 7.5 | N/A | | |
| Cultivated | 140.0 | 1.4 | N/A | | |
| Barren Land | 18.9 | 0.2 | N/A | | |
| Impervious Cover | 259.6 | 2.6 | N/A | | |
| Total | 9,850.8 ² | 100² | | | |

¹Global & State Rarity Ranks (KNHI 2012): G=Global Rank; S=State Rank; 1=critically imperiled; 2=imperiled; 3=vulnerable to extirpation; 4=apparently secure, uncommon but not rare; 5=secure, common, widespread and abundant; U=unrankable; N/A=not applicable



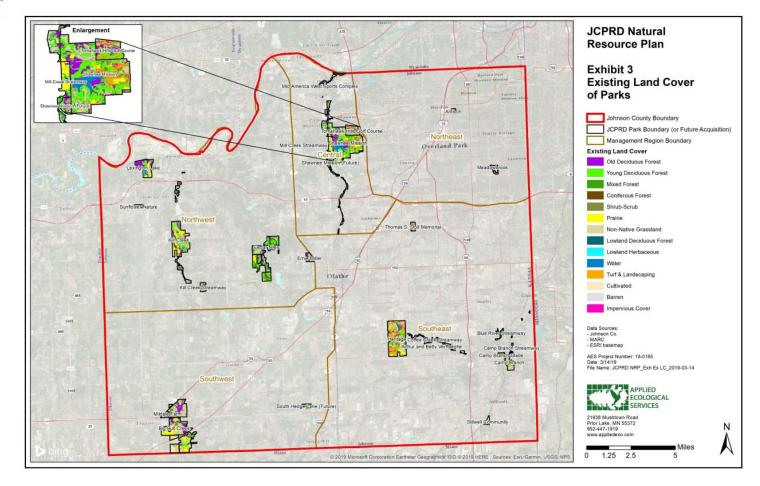




²Total not based on rounded numbers above.

2019 Land Cover

Exhibit

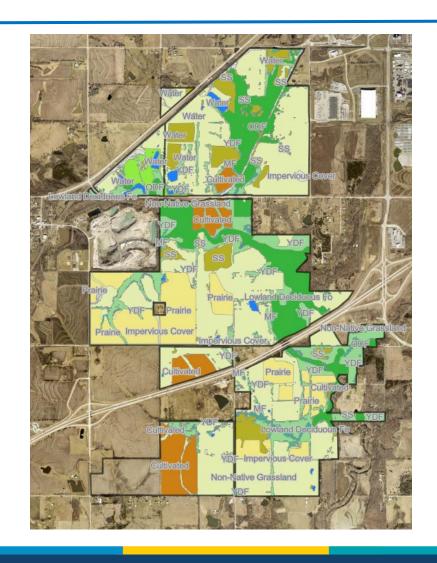


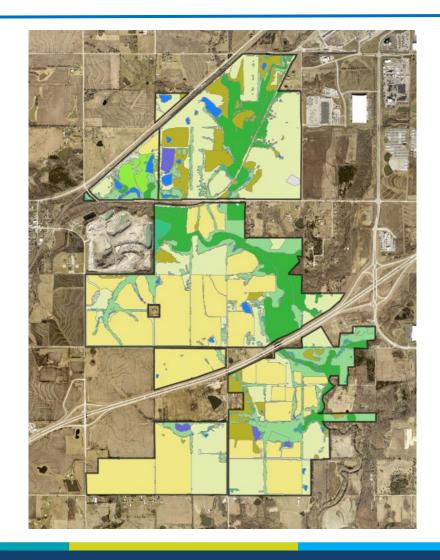






2019 Land Cover to 2024 Land Cover





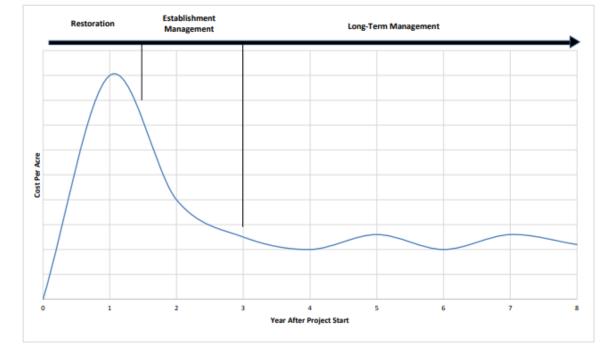


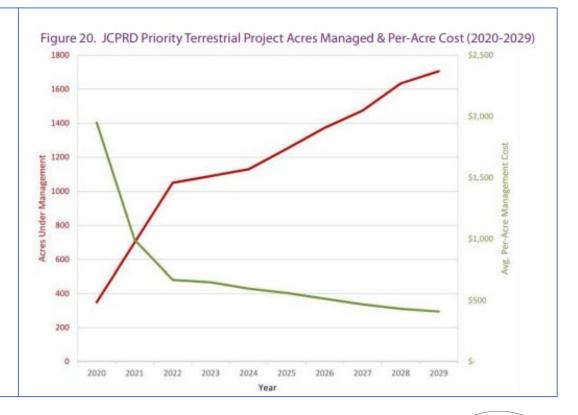




Restoration Philosophy













Project Update



| Table 18. 10-Year Phasing of Priority Terrestrial Projects (2020-2029) | | Year | | | | | | | ı | | | | |
|--|-------------------------------------|--|--------------------|--------------------|--------------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------------|-------------|
| Prioritization Rationale and Natural Areas/Parks | Natural Area Investments (ac) | Estimated Initial Resto & Mgmt Costs for Project | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | Total Cost |
| Prioritized Terrestrial Restoration & Management Projects | | | | | | | | | | | | | |
| SMP-Orange Violet Trail honeysuckle removal | 200 | \$400,000 | ★ \$133,200 | ★ \$135,864 | ★ \$138,581 | \$63,672 | • \$64,946 | • \$66,245 | \$33,785 | \$34,461 | \$35,150 | \$35,853 | \$741,757 |
| EM-Honeysuckle removal | 70 | \$175,000 | ★ \$58,275 | ★ \$59,441 | ★ \$60,629 | • \$22,285 | • \$22,731 | • \$23,186 | \$11,825 | \$12,061 | \$12,302 | ♦ \$12,548 | \$295,284 |
| BBC-Large scale tree removals | 140 | \$280,000 | ★ \$93,240 | ★ \$95,105 | ★ \$97,007 | • \$44,571 | • \$45,462 | • \$46,371 | \$23,649 | \$24,122 | \$24,605 | \$25,097 | \$519,230 |
| BBC-Prairie restoration | 500 | \$1,300,000 | ★ \$260,000 | ★ \$265,200 | ★ \$270,504 | ★ \$275,914 | ★ \$281,432 | • \$165,612 | • \$168,924 | • \$172,303 | \$87,874 | \$89,632 | \$2,037,396 |
| CN-Honeysuckle removal | 140 | \$350,000 | ★ \$35,000 | ★ \$35,700 | ★ \$72,828 | ★ \$222,854 | • \$45,462 | • \$46,371 | • \$47,299 | \$24,122 | \$24,605 | \$25,097 | \$579,338 |
| CB-Mission Road Property prairie restoration | 80 | \$208,000 | | | | ★ \$44,146 | ★ \$180,117 | • \$26,498 | • \$27,028 | • \$27,568 | ♦ \$14,060 | \$14,341 | \$333,758 |
| SMP-Oakridge Hills prairie restoration | 90 | \$234,000 | | | | | | ★ \$258,355 | • \$30,406 | • \$31,015 | • \$31,635 | \$16,134 | \$367,544 |
| KCP-Prairie restoration north of remnant | 60 | \$156,000 | | | | | | ★ \$34,447 | ★ \$140,545 | • \$20,676 | • \$21,090 | • \$21,512 | \$238,270 |
| SMP-South Shore honeysuckle | 240 | \$480,000 | | | | | | | ★ \$180,006 | ★ \$183,606 | ★ \$187,278 | \$86,047 | \$636,936 |
| BBC-North savanna restoration | 40 | \$220,000 | | | | | | | ★ \$24,776 | ★ \$126,355 | ★ \$103,106 | • \$14,341 | \$268,578 |
| KCP-Prairie restoration | 18 | \$46,800 | | | | | | | | ★ \$16,128 | ★ \$38,384 | \$6,453 | \$60,965 |
| SC-Wet prairie restoration | 15 | \$39,000 | | | | | | | | | ★ \$45,695 | • \$5,378 | \$51,073 |
| MCS-Craig's Crossing woody removal | 6 | \$10,800 | | | | | | | | | ★ \$12,654 | • \$2,151 | \$14,805 |
| CN-Cedar removal | 70 | \$210,000 | | | | | | | | | ★ \$49,210 | ★ \$200,776 | \$249,985 |
| CCS-Multiple small prairie restorations along streamway | 37 | \$104,440 | | | | | | | | | | * \$124,815 | \$124,815 |
| Total | 1,706.3 | \$4,214,040 | \$579,715 | \$591,309 | \$639,549 | \$673,443 | \$640,150 | \$667,086 | \$688,243 | \$672,418 | \$687,647 | \$680,175 | \$6,519,735 |

[🖈] orange cells = Initial Restoration; • green cells = Establishment Management (avg. \$300/ac/yr); • purple cells = Long-term Management (avg. \$150/ac/yr); costs assume 2 percent annual inflation







Project Update

Hypothetically \$35.9 million to restore 8,400 acres in 2019.



Table 17. Anticipated Restoration & Management Costs for All JCPRD Parks

| Park Name | Natural Area Investments (ac) | Estimated Initial Restoration & Management Costs for All Projects ¹ |
|---------------------------------|-------------------------------|---|
| Antioch | 8.2 | \$49,748 |
| Arthur and Betty Verhaeghe | 32.2 | \$ 162,034 |
| Big Bull Creek | 1,880.2 | \$6,212,395 |
| Blue River Streamway | 49.1 | \$ 266,027 |
| Camp Branch | 235.5 | \$1,073,745 |
| Camp Branch Glade | 53.2 | \$379,105 |
| Camp Branch Streamway | 29.7 | \$179,129 |
| Cedar Niles | 1,091.8 | \$5,953,831 |
| Coffee Creek Streamway | 158.1 | \$825,056 |
| Ernie Miller | 114.1 | \$618,879 |
| Heritage | 764.3 | \$2,734,592 |
| Kill Creek | 843.3 | \$3,105,439 |
| Kill Creek Streamway | 302.0 | \$1,449,507 |
| Lexington Lake | 432.7 | \$1,952,745 |
| Meadowbrook | 2.6 | \$ 13,736 |
| Mid-America West Sports Complex | 23.1 | \$105,349 |
| Mildale Farm | 3.7 | \$20,080 |
| Mill Creek Streamway | 620.5 | \$2,951,361 |
| Shawnee Mission | 1,265.5 | \$5,673,548 |
| Shawnee Mission (Future) | 154.9 | \$659,493 |
| South Hedge Lane (Future) | 60.6 | \$291,489 |
| Stilwell Community | 51.8 | \$157,670 |
| Sunflower Nature | 45.5 | \$172,516 |
| Thomas S. Stoll Memorial | 21.1 | \$148,417 |
| Tomahawk Hills Golf Course | 157.9 | \$754,140 |
| Total | 8,401.8 | \$35,910,032 |

Assumes initial restoration and establishment management (usually first 3 years) conducted by professional ecological contractors; costs do not address long-term management.

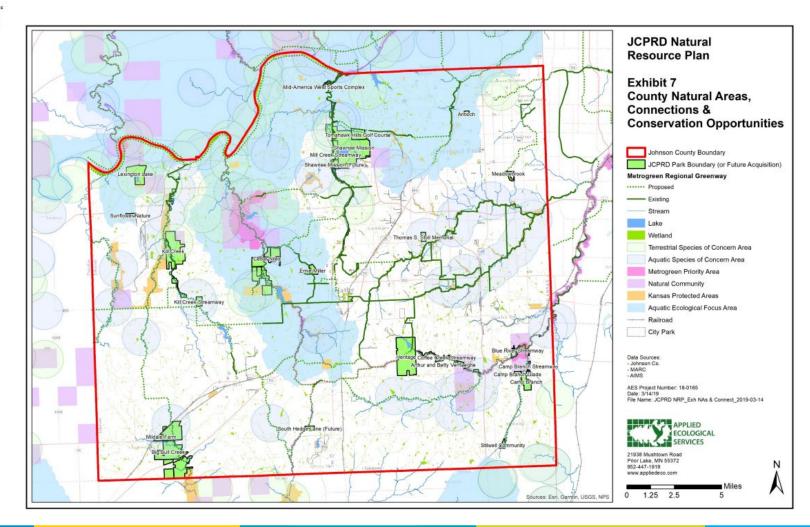






Project Update

Exhibits 119









10 Year Project Update



SMP Orange Trail
Honeysuckle
Completed



CNP Honeysuckle Removal Completed

EMNC Honeysuckle Completed



Bull Creek Prairies 570 new acres, 28 units





Bull Creek Tree Removal Completed



Oakridge Hills Prairies 30% completed

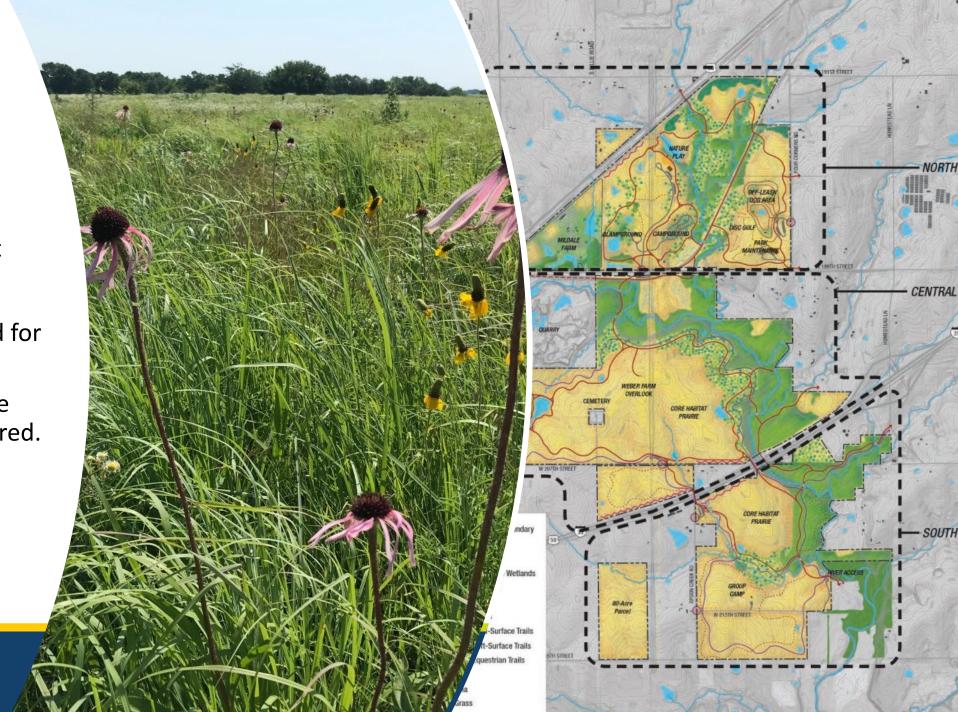








- 7 Years into the project
- 570 acres completed
- Additional 100 planned for 2025
- Long term maintenance and staffing needs bolstered.











Bush Honeysuckle Removal

Regional Leader in removing bush honeysuckle.

1000+ acres removed with staff and contractors at

- -Ernie Miller Nature Center
- -Cedar Niles Park
- -Shawnee Mission Park













The PARKS & RECREATION FOUNDATION of JOHNSON COUNTY



2024 was the first year for the Natural Resource Internship funded by the foundation.

Strong Applicant Pool

Great first intern from K-state.

Helped extend the reach of growing season work.









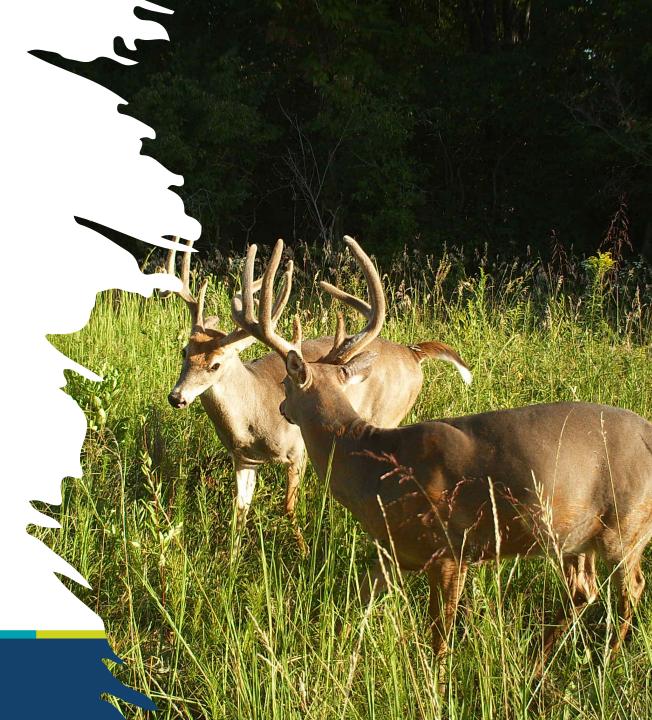


Deer management program is active at 3 parks.

Hunters Apply in April

Archery hunting is Sept-January

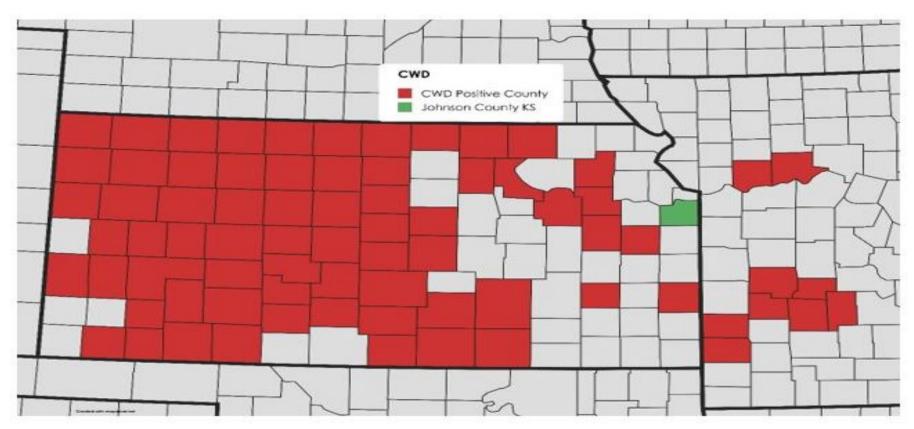
Staff monitor the herd and collect CWD samples from all harvested animals.







CWD IN KANSAS AND MISSOURI







Public Outreach

Art and Natural Resource Residency

- 2024 Is it Water Under the Bridge?
- 2023 Restoring Refuge @ KCP
- 2022 A Seat at the Table @ SMP

2024 Webinar/Hike Series

- Wild Spaces of JOCO
- Partnership with Deep Roots
- 500 participants

Callery Pear Buyback

- Invasive Plant Outreach 2022-2023
- Deep Roots, KS Forest Service, Evergy



JOHNS N COUNTY
Park & Recreation
District





2025



- Natural Resource Plan Mid-Cycle Update Ongoing

- Evaluate plan progress
- Staffing structure review
- Strengthen outreach goals

- NRMPs

- Kill Creek Park
- Sunflower Park
- Sunflower Plant additions
- Stoll and HP

-ArcPro for all data collection

- -Fire
- -Seed Collection
- Invasive work







Birds in JCPRD Parks









Birds in JCPRD Parks







