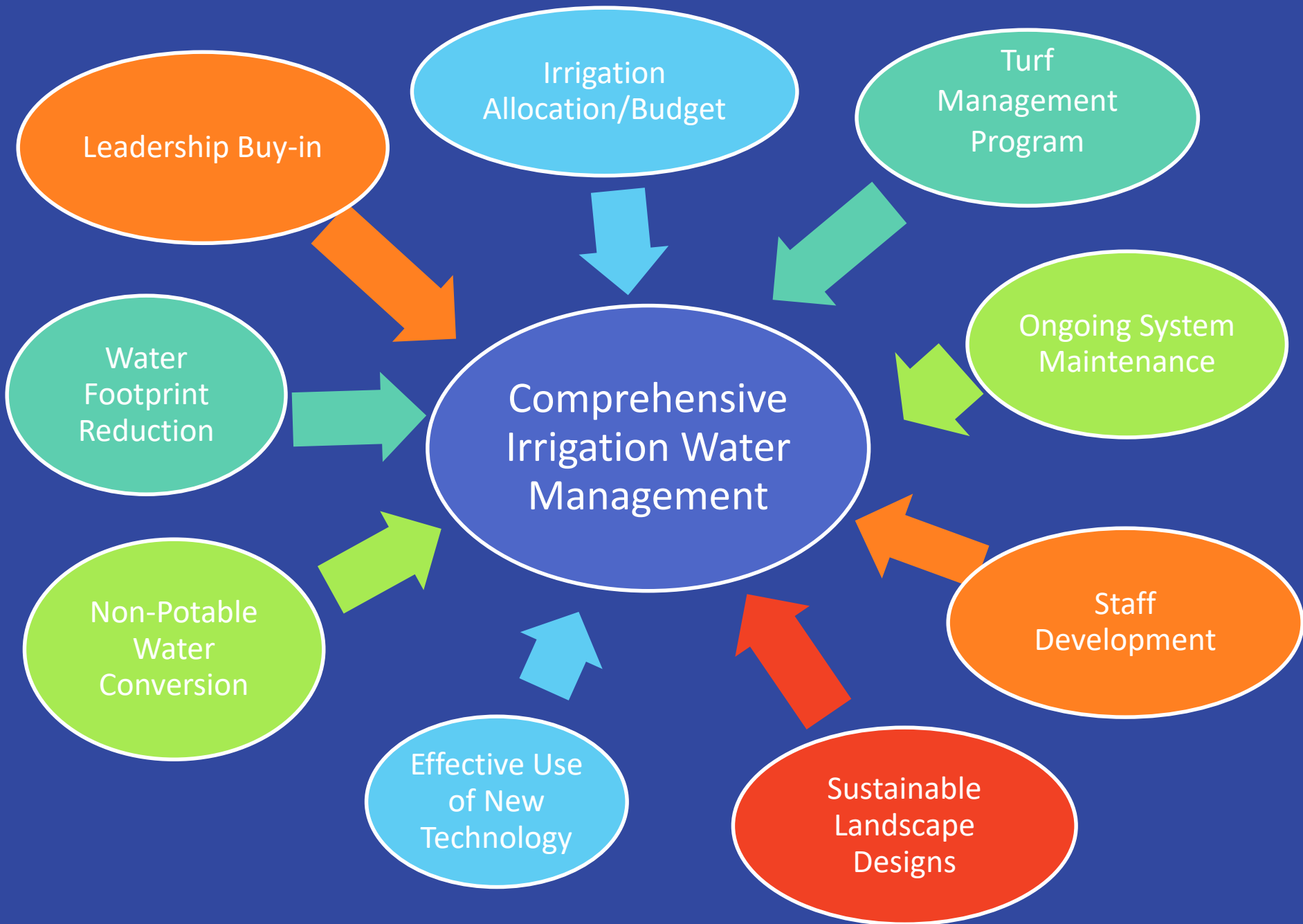


Parks, Recreation and Cultural Services Department Water Conservation Program



sandeeshuman



Bluegrass Conversion Process



- Identifying area for conversion
- Evaluate site conditions
- Grass selection
- Conversion method
- Establishment
 - Irrigation
 - Mowing
 - Weed control
- Long-term maintenance
- Cost benefit



Irrigation modification at Ford Frick Park

Conversion Method



- Initiate conversion when vegetation is actively growing; May 1 – September 1
- Thoroughly treat conversion area with non-selective herbicide
- Repeat with second application in 2 weeks
- Mow area as short as possible
- Flag irrigation heads, valve boxes, etc.
- Core aerator in several different directions

Conversion Method



- Drill seed different directions when possible
- Drag entire area thoroughly
- Apply hydromulch and erosion control fabrics as needed
- Organic fertilizer: .75lb N/1000
- Irrigate

Hand sewing native grass seed can be an effective means to seeding challenging sites



Seeding



Keller aeration



Wasson seed 7/12/13



Keller seeded 7/19/13

Drill seeded 2x at 10" spacing



Area dragged after seeding



Barnes median seeded
8/6/13



Briargate seeded 8/9/13

Hand seeded, raked and rolled

Memorial Park September 6th, 2015



Ford Frick Park



Keller Park



July 2013



April 2014

August 2014

Shooks Run Park 2018



Barnes Median



May 2013



July 2013



August 2013

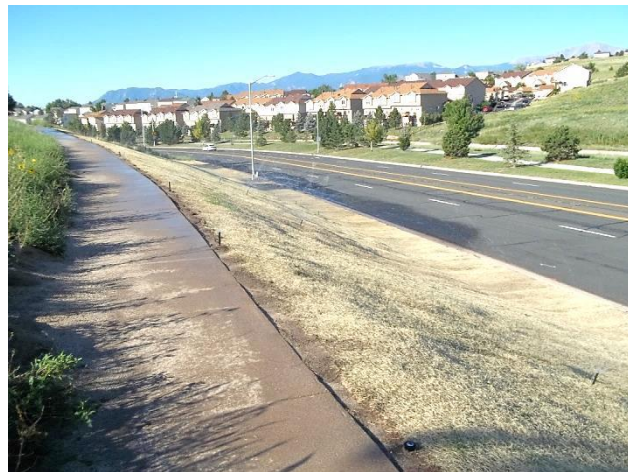


August 2014



August 2014

Austin Bluffs Right of way



Conversion Costs



2022 Turf to Native Conversion Costs -2.5 Acres Cool-Season Native

Item	Unit	Unit Cost	Units Needed/Acre	Per Acre Cost	Total Cost
Non-Selective Herbicide Application	acre	\$110	2	\$220	\$550
Aeration	acre	\$115	3	\$345	\$863
Power Rake	day	\$88	1	\$88	\$88
Fertilizer	bag	\$6.67	16	\$107	\$267
Seed 70/30 - 3#/1000	#	\$4.50	131	\$590	\$1,474
Seeding Services	acre	\$306	1	\$306	\$765
Post Emergent Herbicide	acre	\$220	1	\$220	\$550
Additional Labor	hour	\$24	16	\$384	\$960
Irrigation Retrofit	acre	\$3,000	1	\$3,000	\$7,500
Total Cost				\$5,260	\$13,017
Cool-Season Rebate \$.09/sq.ft				\$3,920	\$9,801
Net Cost After Rebate				\$1,340	\$3,216

ROI – Prairie Native



2022 Turf to Native ROI-2.5 Acres Prairie Native (mix of cool/warm season)	
Conversion Cost	\$13,016
Annual Savings From Kentucky Bluegrass	\$11,307
Project Payback (Years)	1.15 years

2022 Turf to Native ROI-2.5 Acres Prairie Native with CSU Rebate	
Conversion Cost	\$13,016
Less CSU Rebate (\$.18/sq. ft.)	\$19,602
Net Cost	\$0
Annual Savings From Kentucky Bluegrass	\$11,307
Project Payback (Years)	Savings \$11,307

Maintenance Savings



Keller Park Maintenance Costs (7.5 acres)

2013-2019 Prairie Annual Native Maintenance Costs	Cost per acre	Overall cost	2013-2016 Kentucky Bluegrass Annual Maintenance Costs	Cost per acre	Overall cost
Mowed 3x season	\$150	\$3,375	32 mowing's (May – October)	\$200	\$48,000
Herbicide (2 applications)	\$150	\$2,250	Herbicide (2 applications)	\$150	\$2,250
Fertilizer (not needed)	-	-	Fertilizer (2x/yr)	\$70	\$1,050
Overseeding (not needed)	-	-	Overseeding (1x/yr)	-	-
Aeration (not needed)	-	-	Aeration (1x/yr)	\$110	\$825
Irrigation - 12 Inches	.0676	\$22,085	Irrigation - 24 Inches	.0676	\$44,170
	Total	\$27,710		Total	\$96,295
	Cost per acre	\$3,695		Cost per acre	\$12,840

Annual Cost Benefit



Keller Park Cost Benefit Analysis (7.5 acres)	
Annual Water Savings (CF)	326,700
Annual Savings Average (Maintenance & water)	\$68,585
Renovation Cost	\$17,848
Project Payback (Years)	0.26
Yearly Savings Per Acre	\$9,144

Projects Sites and Acreage



Native Grass Type	Project Sites	Acreage
Warm/Cool Season Native Mix (Prairie Native)	8	28
Cool Season Native (Wheatgrass Mix)	39	53
Total	47	81



Centennial Medians Native



Wildflower Park Native

Questions?

