Diamond Scoring Key								
	0	1	2	3	Considerations			
Overall Field Condition								
					Based on reviewers impression of the field considering multiple			
Inadequate/Poor Quality Field		1			factors related to field condtion. This may be more subjective than			
Adequate/Good Quality Field			2	ļ .	individual elements			
Excellent Quality Field				3				
Infield Condition	<u> </u>	Ι .	1	1	T			
Inadequate/Poor Quality Infield		1		1	Are drainage issues present (is there standing water/mud)? Is there			
Adequate/Good Quality Infield			2		a noticeable ridge between infield and outfield? Are there areas			
Excellent Quality Infield				3	with extreme wear?			
Turf Quality								
Inadequate/Poor Quality Turf		1			Are there weeds present? Is turf patchy/worn? Is the field a			
Adequate/Good Quality Turf			2					
Excellent Quality Turf				3				
Irrigation								
No Irrigation	0							
					Does grass area appear to be fully covered? Are there any dry/dead			
Inadequate Irrigation		1			spots?			
Adequate Irrigation			2					
Excellent Irrigation				3				
Field Lighting			1					
No Field Lighting	0			<u> </u>				
Inadequate Quality Field Lighting		1			Is the lighting LED? Are there sufficient light poles for even light			
Adequate Quality Field Lighting			2		distribution?			
Excellent Field Lighting				3				
Backstop/Fencing		•		•				
No backstop/Fencing	0				labor Cald Cills for and 2 Are About Included a second and the formand			
Inadequate/Poor Quality Backstop/Fencing		1			Is the field fully fenced? Are there holes/wear/rust on the fence?			
Adequate/Good Quality Backstop/Fencing			2		How many backstops are there? Do the backstops show signs of			
Excellent Backstop/Fencing				3	wear?			
Dugout		•		•				
No dugout	0							
Inadequate/Poor Quality Dugout		1			Is the dugout covered? Do benches show signs of wear?			
Adequate/Good Quality Dugout			2		is the august covered; no penches show sighs of wedl;			
Excellent Dugout				3				
Bleachers								
No Bleachers	0							
Inadequate/Poor Quality Bleachers		1			Is there enough bleacher seating available? Do bleachers show signs			
Adequate/Good Quality Bleachers			2		of wear?			
Excellent Bleachers				3	1			

WATCHINGTON NATION STATE OF THE PARTY O			I	Field						Shape - Diamond			
### 1860 ##	Park/School	Address	Field Name	Use	Overall Field Condition	Infield Condition			Field Lighting	Backstop/Fencing		Bleachers	Notes
### 14 10 ### 1				Up to U10 Baseball & Select Softball	2	3	1.5	0	0	2	1.5	2	
Part	132nd Square Park		132nd Square Park Field 1 (to remain)			(No Mound)							l .
March Marc	25211d Square Funk	NE, Kirkland	132nd Square Park Field 2 (eliminated	Softball									
### 14 10 10 10 10 10 10 10 10 10 10 10 10 10				Micro Soccer Practice in outfield									
### 14 10 10 10 10 10 10 10 10 10 10 10 10 10													
# 14 10 10 10 10 10 10 10 10 10 10 10 10 10					2	3	2	3	0	2.5	2.5	2	Die bestellt er field 1 and 2
Mark Mark Mark Mark Mark Mark Mark Mark													Dip between outrields of Field 1 and 2
# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Construendo Danie		Crestwoods Field 1	Softball through Adult Youth Soccer in Outfield						No perimeter	Simple bench covered	3 row	1
Handling Ha	Crestwoods Park	Kirkland	Crestwoods Field 1		2	3	2	3	0				Die besteuer entfielde of Field 1 and 2
Hand the second process of the second proces			Crestwoods Field 2	Youth Soccer In Outfield			Wet spot at right field			Small backstop	Simple bench, covered		Dip between outrields of Field 1 and 2
Marie Ma				Up to U10 Baseball & Select Softball	3	3	3	3	0	3	2.5	2	l
# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Crartwoods Field 4	Youth Soccer In Outfield						Somewhat worn vinyl coating	Simple bench, covered	3 row	Field is far away from parking/main road
Harman Marie Mar			Crestwoods Field 4		3	3	2	3	0	3	3	3	
## 14 10 10 10 10 10 10 10 10 10 10 10 10 10				Un to U12 Baseball & Collegiate						-			
Harting Market No. 1945 1941 1941 1941 1941 1941 1941 1941			Everest Field 1										Bullpen x 4, batting cage, press box
Marchane							standing water by 2nd base						
변변 변경 변					3	3	2	3	0	3	3	3	
No.			Everest Field 2	Up to U12 Baseball & Collegiate Softball Games & Tournaments									Bullpen x 2 (Worn)
## 18	Everest Park						infield/outfield						
Marie Ma				Up to Collegiate Softball Games &	3	3	3	3	0	3	3	3	Softball only, outfield facing playground/othe
### 1866 ##			Everest Field 3										fields, no mound
Regular Name					_						_		
1					3	2		2.5	0	3	3	3	-
March Park 1311 to 1300 1311 t			Everest Field 4	Up to U12 Baseball & Collegiate Softball Games & Tournaments	Irregular Grading		Ridge between						No bullpen
### 1310 M 200 전							infield/outfield, Splotches						
March Marc				Practice use up to U10 Baseball & Youth Softball	1	1	1	0	0	2	0	0	
March Marc	Highlands Park		Highlands Field					Present, but not on	1				
Part		Street, Kirkianu		Practice youth soccer in Outfield				or active		Small backstop at low point of site			
Heaten from the property of th		+			1	3	1	0	0	2	2	2	
March Service March Servic		0702 NE luanita											
Near 18 Park 10	Juanita Beach Park		Juanita Beach Field 1			· ·				Wornytired			
Page Fire Fire Page Page Fire Fire Page Fire P			Lucaita Barah Siald 2	Up to U10 Baseball & Youth Softball Pee Wee/Micro Soccer in outfield	1	2	1		0	2			
Res Ris Fire 1			Juanita Beach Field 2		3	3	3		3	3			
Section Sect		202 3rd Street											
Mark Field Abot Schild A	Peter Kirk Park						Some discoloration			Beat down netting, some rust		Built in	
100 100			Peter Kirk Field	Adult Softball	perimeter								issue
Sports S		11710 NE 100th		Practice use up to U10 Baseball & Youth Softball	1	1	1	0	0	1	0	0	Site is at the law point with clones down on al
Maria High School Mari	Spinney Homestead Park		Spinney Homestead Field							2 Backstons no fencing			
Author Page Author Page Pag				Practice youth soccer in Outfield									
Author Horse			Juanita HS Field 1	High School Level Softball	3	3	3	0	0	3	Coursed a Foodered		New
Author 14 15 15 15 15 15 15 15					2	2	2	0	0	2	covered + Enclosed	5-10W	
Author 14 PS Field 2 High School Level Baseball Size Point Size Point High School Level Baseball Size Point Size Point High School Level Baseball Size Point		10601 NE 132nd	Juanita HS Field 1.5			-	-		· •	,	Covered + Enclosed	5-row	New
Final Hill Fin	Juanita High School		turning the field 2		3	3	3	0	0	3	3	3	
Mark			Juanita na rielu z	High School Level Baseball							Covered + Enclosed	5-row	New
Math			Juanita HS Field 3		3	3	0	0		3	3		New
Lake Washington Field 1 Figh School Level Sortball Grass outfield, synthetic infield + warming infield											Grandstands	None- 6'	
Lake Washington High School Level Baseball					3	3	3	3	0	3	3	3	
Lake Washington High School Lake Washington Field 2			Lake Washington Field 1	High School Level Softball	Grass outfield, synthetic					l			Bullpens with synthetic turf
School Streek, Kirkland St	Lake Washington High	12033 NE 80th				Synthetic	Outfield	Outfield		10' Netting on wing walls	Covered	3-row	
Lake Washington Field 2	School												
Fin Hill Field 1 Saceball S					3	3	3	3	0	0	3	3	1
Final Hall Field Baseball Sample			Lake Washington Field 2	High School Level Baseball		Synthetic	Outfield	Outfield		Pressbox + 10' Netting on wing walls	Covered	5-row	2 Bullpens with syntehtic turf, 2 batting cages
Market M													
Frin Hill Field 2 Baseball/Softball 3 3 3 3 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3		9040 NE 122nd	Finn Hill Field 1	Baseball	3	3		3	0	3	3		1
Maria Mari	Finn Hill	Street, Kirkland			3	3		3	0	3	3		
Kamilakin Mailati 13th Alw NE, Kirkhard Kamilakin Field 1 Baseball 0 3 1 3 0 3 3 0 Kirkhard Kirkhard Baseball/Softball 2 3 1 3 0 3 3 3 3 Kirkhard Middle School Mishin Field 2 Baseball/Softball 2 3 1 3 0 3 3 3 3 Kirkhard Middle School Mishin Field 2 Baseball Outfield seems to overlap Some wear 1 4.5' Perimeter Covered Built in Outfield seems to overlap for the control of the control overlap for the con			Finn Hill Field 2	Baseball/Sottball									
A					0	3	1	3	0	3	3		
RE, Kirkland Respect Remaikin Field 2 Baseball/Softball 2 3 1 3 0 0 0 0 0 0 0 0 0	Ki-bi-		Kamiakin Field 1	Baseball			Lumpy/weeds			No outfield fence	Covered		
A Secondary	Kamiakin	NE, Kirkland			2	3	1	3	0	3	3	3	
A			Kamiakin Field 2	Baseball/Softball		3	Lumpy/weeds	,		No outfield fence	Covered		
AU 18th Ave NE, Kirkland Middle School Kirkland Field 2 Baseball/Softball Substantial Country of the Country of					3	3	3	3	0	3	3	3	
Kirkland Middle School Kirkland Field 2 Baseball/Softball Outflield seems to Outflield seems to Unitage Fencing a 3, but backstops have some wear Outflield seems to Unitage Fencing a 3, but backstops have some wear Outflield seems to Unitage Fencing a 3, but backstops have some wear		420 19th A NF	Kirkland Field 1	Baseball			Some wear			4-5' Perimeter	Covered	Built in	
Kirkland Field 2 Baseball/Softball Outfield seems to Unit in Field Baseball/Softball Outfield seems to Unit in Field Baseball/Softball Baseball/Softball	Kirkland Middle School					3	2	3	0	2	1		Fencing a 3, but backstops have some wear
			Kirkland Field 2	Baseball/Softball		I I I I I I I I I I I I I I I I I I I	,	,			D	"	1
						Huge infield					Benches		

R	Rectang	le Sco	ring Ke	ey			
	0	1	2	3	Considerations		
Overall Field Condition							
					Based on reviewers impression of the field considering		
Inadequate/Poor Quality Field		1			multiple factors related to field condtion. This may be mo		
Adequate/Good Quality Field			2		subjective than individual elements		
Excellent Quality Field				3	1		
Turf Quality			1	T T			
Inadequate/Poor Quality Turf		1			Are there weeds present? Is turf patchy/worn? Is the field a		
Adequate/Good Quality Turf			2		consistent grade or is it undulating/lumpy? Are there areas		
Excellent Quality Turf				3	with extreme wear?		
Synthetic Turf Quality							
No Synthetic Turf	0						
Synthetic Turf Appears to Have Less Than Half of Life Left		1			_		
Synthetic Turf Appears to Have More Than Half of Life Left			2				
Excellent/New Quality Synthetic Turf				3			
Irrigation			1	1	_		
No irrigation	0				Does grass area appear to be fully covered? Are there any		
Inadequate Irrigation		1			dry/dead spots?		
Adequate Irrigation			2		4		
Excellent Irrigation				3			
Field Lighting		_		ı	T		
No Field Lighting	0				4		
Inadequate Quality Field Lighting		1			Is the lighting LED? Are there sufficient light poles for even		
Adequate Quality Field Lighting			2		light distribution?		
Excellent Field Lighting				3			
Bleachers							
No Bleachers	0						
Inadequate/Poor Quality Bleachers		1			Is there enough bleacher seating avalable? Do bleachers show		
Adequate/Good Quality Bleachers			2		signs of wear?		
Excellent Bleachers				3			
Goals							
No Goals	0						
Inadequate/Poor Quality Goals		1			Are there goals present? Do the goals show signs of wear? Are		
Adequate/Good Quality Goals			2		the goals movable?		
Excellent Goals		L		3			
Field Safe Zone							
Not Striped/Marked	0						
Inadequate Field Safe Zone		1			Is field safe zone clearly marked? Is field safe zone sloped?		
Adequate Field Safe Zone			2		a is field safe zone clearly marked? Is field safe zone sloped?		
Excellent Field Safe Zone				3			

			Field						Shi	ape - Rectangle				
Park/School	Address	Field Name	Use	Overall Field Condition	Turf Quality	Synthetic Turf	Irrigation	Field	Fencing	ape - Rectangle Bleachers	Goals	Issues with F	ield Safe Zone	Notes
132nd Square Park	13159 132nd Ave NE, Kirkland	132nd Square Park Field 3 (currently under construction)	Soccer through Adult											Sign says it will be the city's "first lighted, synthetic turf, multi-use field"
	1818 6th Street,			3	2.5	0	3	0	1	0	2		0	
Crestwoods Park	Kirkland	Crestwoods Field 3	Multi-Use Soccer/Lacrosse through Adult	Wet					Needs more fencing, backstop present		4 movable goals	Not Striped		Berm on west edge
Juanita Beach Park	9703 NE Juanita	Juanita Beach Open Space	Practice, Multi-Use Youth Sports	1	1	0	0	0	0	0	0		0	Large trees throughout, not in good shape
Juanita Beach Park	Drive, Kirkland	лини осист орен эрисс	riacice, muirose roudi sports											Large trees throughout, not in good shape
Terrace Park	10333 NE 67th	Terrace Field	Practice, Multi-Use Youth Sports	1	1	0	0	0	1	0	0		0	
Terrace Park	Street, Kirkland	Terroce racio	Fractice, Multi-Ose Toutil Sports	Dry, sloped to outfield	Drain lines @ 20°				Neighbor fencing, Backstop present			Not striped		
				2	2	0	3	0) jresent	0	1		3	
International/Community School	11133 NE 65th Street, Kirkland	International/Community Field	T-Ball/Soccer Practice			-	,	-			•			_
School	Street, Kirkland			Good conditions, a little bumpy	Some bare spots with clover				4' tall, not fully enclosed		Single bars	Not striped, but room allows		
	10903 NF 53rd			3	3	0	3	0	3	2	0		3	
Emerson High School	Street, Kirkland	Emerson Field	T-Ball/Soccer Practice							3 rows + dug out			·	
	8040 NF 132nd			Sloped to outfield	Worn at bases	_			Sittal backstop, no tence	benches	None	Adequate		
Finn Hill	Street, Kirkland	Finn Hill Football Field	Lacrosse/Football/Soccer	2	Worn 2	0	3	0	School perimeter		2 Football only (worn)	Not striped	0	
		Kamiakin Open Space	Open Space	1 Undulating	1 Lumpy/weeds	0	3	0	1 School perimeter	0	0		0	-
Kamiakin	14111 132nd Ave NE, Kirkland			1	1	0	3	0	1	0	1		0	
	,	Kamiakin Football Field	Lacrosse/Football/Soccer	Massive crown	Lumpy/weeds				Far perimeter (school perimeter)			Not striped, likely uneven		
	430 18th Ave NE,	Kirkland Football Field		1	1	0	3	0	1	1	2		0	
Kirkland Middle School	Kirkland	KIFKIAND FOOTDAIL FIELD	Lacrosse/Football/Soccer	High crown, lumpy/irregular clover	Lumpy/spongy clover/weeds				5' Site perimeter	Older/small		Sloped and not striped		Smells like dog urine
				1	1	0	0	0	0	0	1		0	_
		AG Bell Field 1	Tball/Soccer Practice	Tiny	Cinders/sand material, catch basin in field of	Has curb surrounding, could make synthetic turf installation					Good condition, bad nets	Not striped		
AG Bell	11212 NE 112th			'	play	easier								
	Street, Kirkland			1	1	Has curb surrounding, could	0	0	0	0	1		0	-
		AG Bell Field 2	Tball/Soccer Practice			make synthetic turf installation					No nets	Not striped		
				3	2	easier	3	0	1	0	0		0	
	12434 NE 60th	Ben Franklin Field 1	Up to U10 Little League/Soccer Practice						•			Not striped		
Ben Franklin	Street, Kirkland	Ben Franklin Field 2	Up to U10 Little League/Soccer Practice	3	2 Some splotched	0	3	0	1	0	0		0	Fields nearly identical
					discoloration							Not striped		
				1	0	0	0	0	2	2	1		0	
		Carl Sandburg Field 1	Up to U10 Little League/Soccer Practice		No grass, field flat overall but				Backstop + fenced on 2 sides	None, but concrete seat wall	2 with no nets			
Carl Sandburg	12801 84th Ave NE, Kirkland				uneven/irregular					present				
	RII KABITO	Carl Sandburg Field 2	T-Ball/Pee-Wee Soccer	1	1	0	0	0	1	0	0		0	Very tiny field at back/side of school, not
		Carl Sandburg Field 2	I -Ball/Pee-Wee Soccer		Lots of weeds, ground uneven, sloped on sides				Fenced only on one end			Sloped and not striped		immediately obvious this is meant to be played
				1	0	0	0	0	2	0	0		0	on
	Helen Keller Field 1	Helen Keller Field 1	Up to U10 Little League/Soccer Practice						Fencing only on 1.5 sides, but	No bleachers, but				
	13820 108th Ave								in good condition	3 backed benches facing field		Not striped		
Helen Keller	NE, Kirkland			1	0	0	0	0	2	0	1		0	
		Helen Keller Field 2	Soccer Practice						Fencing only on 1.5 sides, but	No bleachers, but 3 backed benches	No nets	Not striped		
									in good condition	facing field	Noticis	Not surpeu		
				1	0	0	0	0	3	0	2		0	
John Muir	14012 132nd Ave	John Muir Field	Up to U8 Little League/Soccer Practice			Has curb surrounding, could	-	-	1 Backstop, fenced on 3 sides,		-		-	-
	NE, Kirkland				No grass, field is sand/dirt	make synthetic turf installation			1 side with planters and		4 movable goals	Not striped		
		Juanita Elementary Field 1 (Rear)	T-Ball/Pee-Wee Soccer	2	2	easier 0	3	0	shorter fence	0	0		0	
Juanita Elementary	9635 NE 132nd Street, Kirkland			Undulating 1		0			Two backstops on west edge	0	1	Not striped	0	
	Street, Kirkland	Juanita Elementary Field 2 (Front)	T-Ball/Pee-Wee Soccer	Small field	Worn 1	0	3		School perimeter fence	U		Not striped	0	
				3	0	3	0	0	3		3		3	_
Lakeview	10400 NE 68th	Lakeview Field	Up to U10 Little League or U12 Softball, Lacrosse, Soccer Practice						6' black + galvanized fence,					
LUNCTION	Street, Kirkland	LUNCTICH I ICIA	op to o to blace being at the total of the t	Small field		Good condition			soccer screens, backstop					
Mark Twain	9525 130th Ave NE,	Mark Twain Field 1	T-Ball/Micro Soccer	3	3	0	3	0	2 6' Perimeter fence on	0	2		0	
Musik Twani	Kirkland	Will K I Wall I I Cha I	I Suly Wick Social						downhill slope			Not striped		
				2	3	0	3	0	3	0	2		0	
Peter Kirk Elementary	1312 6th Street,	Peter Kirk Elementary Field 1	Up to U10 Little League/Soccer	Great, just a few wear/tea areas. Almost a 3	er .				6' fence open to school			Not striped		
Peter Kirk Elementary	Kirkland	Peter Kirk Elementary Field 2 (eliminated		areas. Almost a 3										
		during redevlopment)	Up to U10 Little League/Soccer											
		Rose Hill Field 1	Tball/Soccer Practice	1 Irregular surface	1 Dirt + bare spots	0	0	0	0	0	0	Not striped	0	
Rose Hill	8110 128th Ave NE, Kirkland			irregular surface 2	Dirt + bare spots	0	2	0	0	0	3		0	
		Rose Hill Field 2	Tball/Soccer Practice	Affected by construction			Some dead areas at perimeter				Small goals	Not striped		
				2	1	0	0	0	3	0	1		0	
				-		-		-		-	-		-	
Robert Frost	11801 NE 140th Street, Kirkland	Robert Frost Field	T-Ball/Micro Soccer		Very patchy, especially around goals, overall				5d		L	No. and and		
					very uneven/irregular,				Fenced on 3 sides, backstop		Large holes in netting	Not striped		
	1				lots of weeds								•	
				1	0	- 0	0	0	1 Backston Formation	0	1		U	†
		Thoreau Field 1	Up to U10 Little League/Soccer Practice		No grass				1 Backstop, Fenced along 2 edges, rusting material and		Netting falling apart	Not striped		
Thoreau	8224 NE 138th				1				overgrown plants through					
- moreau	Street, Kirkland			1	0	0	0	0	2	0	0		0	
		Thoreau Field 2	Soccer Practice		No grass				1 Backstop, Fenced along 2 edges, rusting material and			Not striped		
					8.033				overgrown plants through			- Juspea		

Kirkland Sports Fields

Schools

0

International Community School

- Emerson K-12
- Juanita High School_Field 1
- ♀ Juanita High School_Field 2

9

Lake Washington High School_Field 1

9

Lake Washington High School_Field 2

- Finn Hill_Field 1
- Finn Hill_Field 2
- Finn Hill_Football Field
- Finn Hill_Track
- Kamiakin Field 1
- Kamiakin_Field 2
- Kamiakin_Football Field
- Kamiakin_Track
- Kamiakin_Open Space

0

Kirkland Middle School Field 1

0

Kirkland Middle School_Field 2

0

Kirkland Middle School_Football Field

0

Kirkland Middle School_Track

- AG Bell_Field 1
- AG Bell_Field 2
- Pan Franklin_Field 1
- Pen Franklin_Field 2
- Carl Sandburg_Field 1
- Carl Sandburg_Field 2
- PHelen Keller_Field 1
- PHelen Keller_Field 2
- 💡 John Muir

Juanita Elementary_Field 1 (Rear)

0

Juanita Elementary_Field 2 (Front)

- Lakeview
- Mark Twain_Field 1

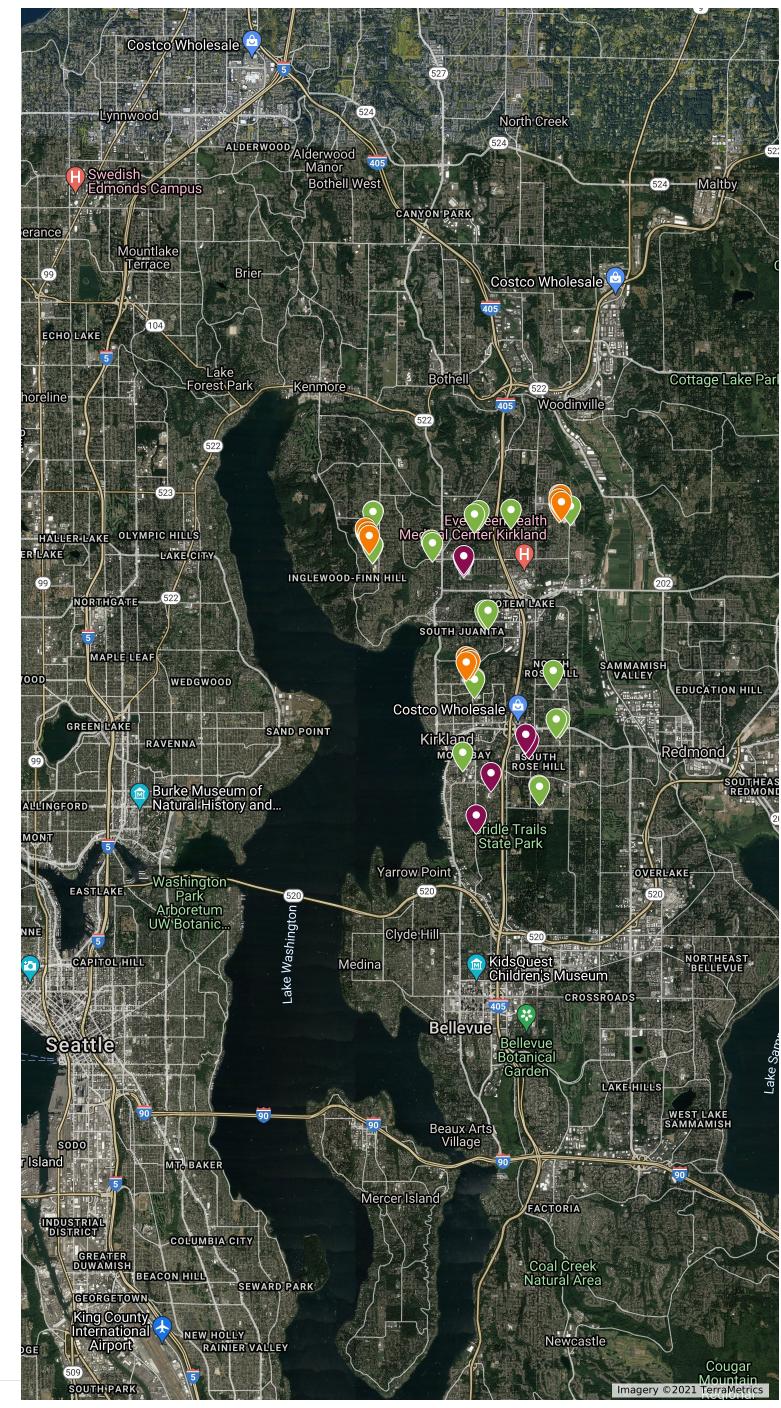
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Peter Kirk Elementary_Field 1

9

Peter Kirk Elementary_Field 2

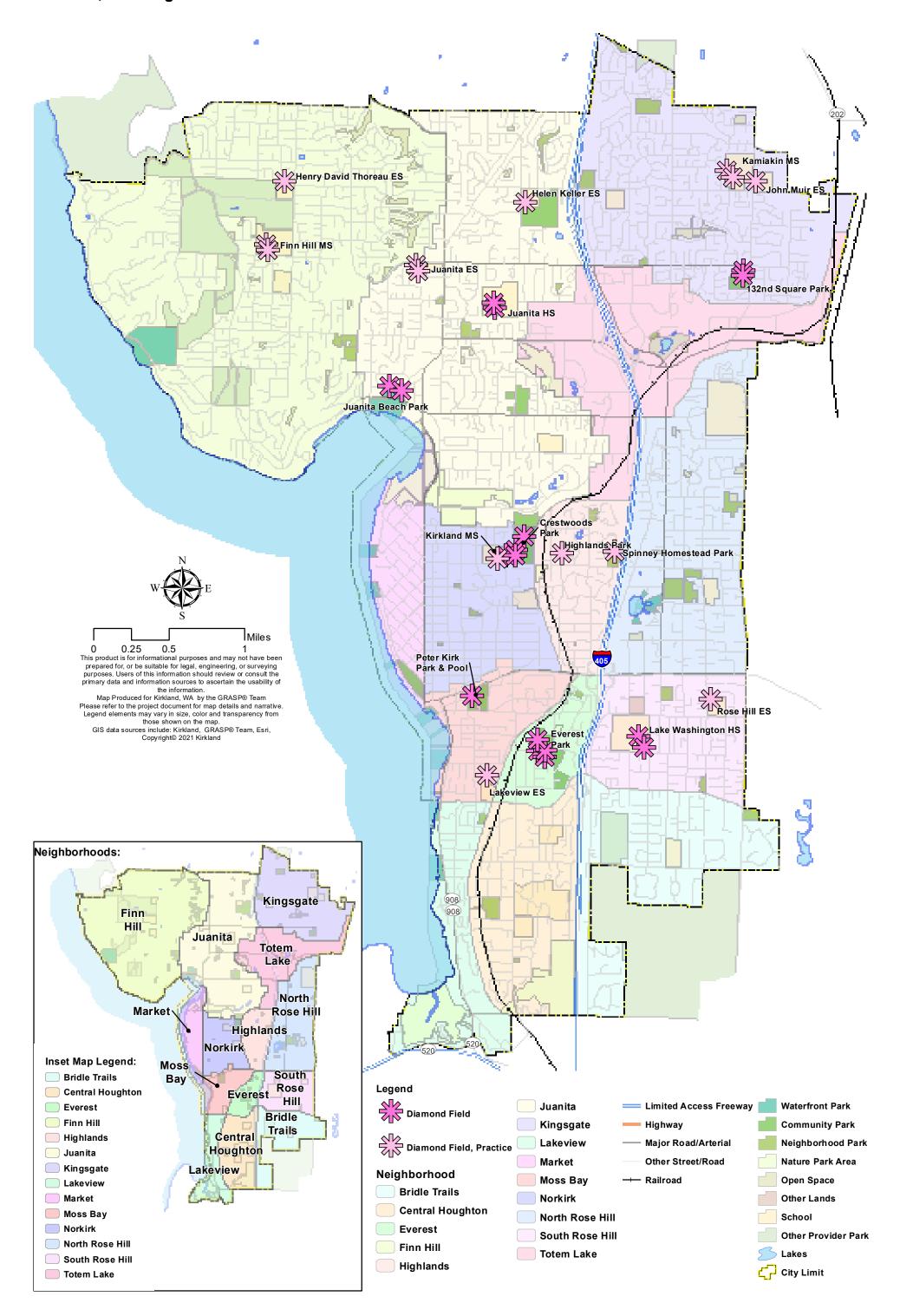
- Robert Frost
- Rose Hill_Field 1
- Rose Hill_Field 2
- Thoreau_Field 1
- Thoreau_Field 2







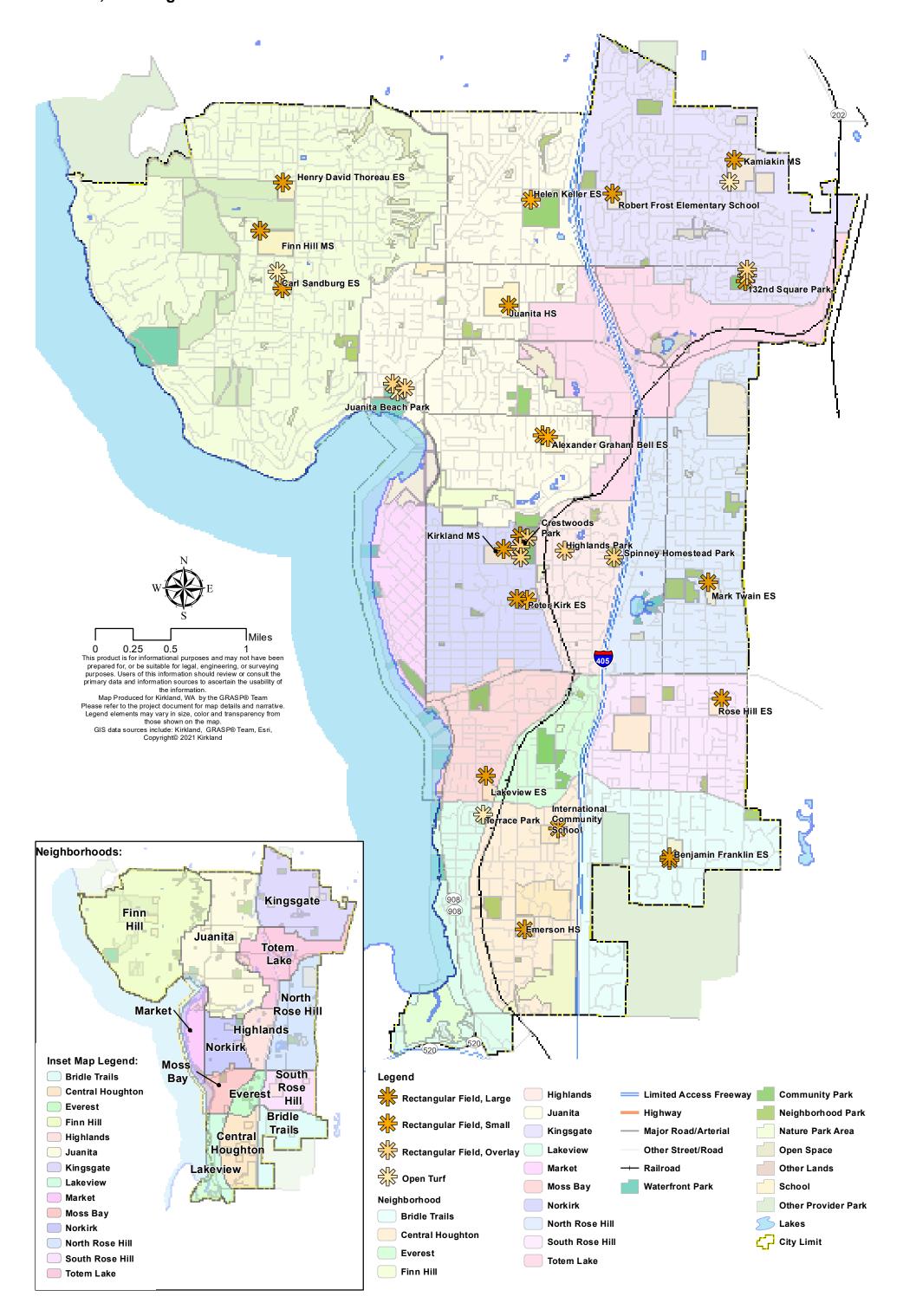
Kirkland, Washington







Kirkland, Washington



Comparison of Natural Turf Field and Artificial Turf Life Cycle Costs (20 Year Cycle)

Natural Turf Field (92,000 SF Turf)		Artificial Turf Field (92,000 SF)	
Initial Major Renovoation Construction Cost	\$500,000	Initial Major Renovoation Construction Cost Assumes \$12/sq.ft. Install, 10% Design, 15% Contingency	\$1,400,000
Refurbishing/Rest Cost - 5 times over 20 years Field refurbishment at year 4, 8, 12, 16 & 20 after initial project	\$325,000 \$65,000	Refurbishing Cost Carpet Replacement (year 12) Assumes \$6.80/sq.ft and \$45K for removal/recycling of infill/turf	\$675,000
Average Maintenance Natural Grass over 20 Years Annual Maintenance Natural Turf every 3 out of 4 years Maintenance costs shifted with refurbishment every 4th year	\$46,625 \$51,500 \$32,000	Average Maintenance Synthetic Turf over 20 Years Annual Maintenance Synthetic Turf for 18 years No maint. 1st year & replacment yr.	\$20,430 \$22,700
20 Year Maintenance Costs 15-Year Maintenance Costs w/natural grass Maintenance Costs with Renovation every 4 Years	\$932,500 \$772,500 \$160,000	20-Year Maintenance Costs	\$408,600
20-Year Total Maintenance + Capital	\$1,757,500	20-Year Total Maintenance + Capital	\$2,483,600
Average Maintenance Cost/Year over 20 Years Avg. Annual Cost: Capital +Maintenance	\$46,625 \$87,875	Average Maintenance Cost/Year over 20 Years Avg. Annual Cost: Capital + Maintenance	\$20,430 \$103,483.33
Natural Turf Field Use (at recommended rate) 32 weeks @ 2 hours per day on weekdays and 5 hours per day on weekends less 15% rain dates		Synthetic Turf Field Use 40 weeks @ 6 hours per day on weekdays and 10 hours per day on weekends	
Hours per Week	20	Hours per Week	50
Weeks of Use per Year	32	Weeks of Use per Year	40
Hours Permitted per Year	640	Hours per Year	2000
Hours per Year minus 15% for Rain	544		
Hours per Year * 20 years	10,880	Hours per Year * 20 years	40,000
Refurbish/rest field every 4 years or 5 times in 20 yrs. Close fields for 20 of 32 playable weeks each time. (20 wks*20 hrs*5 rest periods) Total Hours Permitted Use in 20-Year Cycle	2000 8,880	Refurbish field at 12 years. Close for 20 of 40 playable weeks. (20 wks * 50 hrs) Total Hours Permitted Use in 20-Year Cycle	1000 39,000
Cost per Use	\$198	Cost per Use	\$64
(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)		(Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)	
Natural Turf Field Use (at the current rate 1600 hours)			
Has usage similar to synthetic turf, but without 4 week extended season on either end) 32 weeks @ 6 hours per day on weekdays and 10 hours per			
day on weekends less 15% rain dates Hours per Week	50		
Weeks of Use per Year	32		
Hours Permitted per Year	1600		
Hours per Year minus 15%	1,360		
Hours per Year * 20	27,200		
Refurbish/rest fields every 4 yrs or 5 times in 20 years. Close fields for 12 of 32 playable wks each time. (12 wks*50 hrs*5 rest periods)	3,000		
Total Hours Permitted Use in 20-Year Cycle	24,200		
Cost per Use (Total Maint. + Capital)/(Total Permitted Hours in 20-Year Cycle)	\$73		

Comparison of Natural Turf Field with 3 Scenarios and Artificial Turf Life Cycle Costs (20 Year Cycle)

Natural Turf Field (92,000 SF Turf)		Artificial Turf Field (92,000 SF)			
Scenario 1					
Initial Major Renovoation Construction Cost	\$500,000	Initial Major Renovoation Construction Cost Assumes \$12/sq.ft. Install, 10% Design, 15% Contingency	\$1,400,000		
Refurbishing/Rest Cost - 5 times over 20 years Field refurbishment at year 4, 8, 12, 16 & 20 after initial project	\$325,000 \$65,000	Refurbishing Cost Carpet Replacement (year 12) Assumes \$6.80/sq.ft and \$45K for removal/recycling of infill/turf	\$675,000		
Average Maintenance Natural Grass over 20 Years Annual Maintenance Natural Turf every 3 out of 4 years Maintenance costs shifted with refurbishment every 4th year	\$46,625 \$51,500 \$32,000	Average Maintenance Synthetic Turf over 20 Years Annual Maintenance Synthetic Turf for 18 years No maint. 1st year & replacment yr.	\$20,430 \$22,700		
20 Year Maintenance Costs 15-Year Maintenance Costs w/natural grass Maintenance Costs with Renovation every 4 Years	\$932,500 \$772,500 \$160,000	20-Year Maintenance Costs	\$408,600		
20-Year Total Maintenance + Capital	\$1,757,500	20-Year Total Maintenance + Capital	\$2,483,600		
Average Maintenance Cost/Year over 20 Years	\$46,625	Average Maintenance Cost/Year over 20 Years	\$20,430		
Avg. Annual Cost: Capital +Maintenance	\$87,875	Avg. Annual Cost: Capital + Maintenance	\$103,483.33		
Scenario 2					
Initial Major Renovoation Construction Cost	\$500,000				
Rest & Modest Refurbishment- 10 times over 20 years Field rest for 6-8 weeks every 2 years	\$100,000 \$10,000				
Field rest for 0-0 weeks every 2 years	\$10,000				
Average Maintenance Natural Grass over 20 Years	\$41,750				
Annual Maintenance Natural Turf every other year	\$51,500				
Maintenance costs shifted with rest every 2 years	\$32,000				
20 Year Maintenance Costs	\$835,000				
10-Year Maintenance Costs w/natural grass	\$515,000				
Maintenance Costs with rest every 2 Years	\$320,000				
20-Year Total Maintenance + Capital	\$1,435,000				
Average Maintenance Cost/Year over 20 Years	\$41,750				
Avg. Annual Cost: Capital +Maintenance	\$71,750				
Scenario 3					
Initial Major Renovoation Construction Cost	\$500,000				
No Refurbishment or Rest	\$0				
Annual Maintenance Natural Grass	\$51,500				
20 Year Maintenance Costs	\$1,030,000				
20-Year Total Maintenance + Capital	\$1,530,000				
Average Maintenance Cost/Year over 20 Years	\$51,500				
Avg. Annual Cost: Capital +Maintenance	\$76,500				

Number of Slots Per Elementary Per Two Hours					
Monday	4pm - Dusk	1			
Tuesday	4pm - Dusk	1			
Wednesday	3:00pm - Dusk	1			
Thursday	4pm - Dusk	1			
Friday	4pm - Dusk	1			
Saturday	9am - 12pm	1			
Saturday	12pm - 3pm	1			
Saturday	3pm - 6pm	1			
Saturday	6pm - Dusk	1			
Sunday	9am - 12pm	1			
Sunday	12pm - 3pm	1			
Sunday	3pm - 6pm	1			
Sunday	6pm - Dusk	1			
Total Slots:		13			

Number of Slots @ JHS/LWHS Per Field During Spring					
Monday	5:30pm - Dusk	1			
Tuesday	5:30pm - Dusk	1			
Wednesday	5:30pm - Dusk	1			
Thursday	5:30pm - Dusk	1			
Friday	5:30pm - Dusk	1			
Saturday					
Saturday	12pm - 3pm	1			
Saturday	3pm - 6pm	1			
Saturday	6pm - Dusk	1			
Sunday	9am - 12pm	1			
Sunday	12pm - 3pm	1			
Sunday	3pm - 6pm	1			
Sunday	6pm - Dusk	1			
Total Slots:		12			

Number of Slots @ J	HS/LWHS Per Field June - July	
Monday	5:30pm - Dusk	:
Tuesday	5:30pm - Dusk	:
Wednesday	5:30pm - Dusk	-
Thursday	5:30pm - Dusk	-
Friday	5:30pm - Dusk	-
Saturday	9am - 12pm	
Saturday	12pm - 3pm	-
Saturday	3pm - 6pm	-
Saturday	6pm - Dusk	-
Sunday	9am - 12pm	
Sunday	12pm - 3pm	-
Sunday	3pm - 6pm	-
Sunday	6pm - Dusk	
Total Slots:		13

Number of Slots Field 1 @ 132nd Square					
Monday	4pm - Dusk	1			
Tuesday	4pm - Dusk	1			
Wednesday	3:00pm - Dusk	1			
Thursday	4pm - Dusk	1			
Friday	4pm - Dusk	1			
Saturday	9am - 12pm				
Saturday	12pm - 3pm				
Saturday	3pm - 6pm	1			
Saturday	6pm - Dusk	1			
Sunday	9am - 12pm	1			
Sunday	12pm - 3pm	1			
Sunday	3pm - 6pm	1			
Sunday	6pm - Dusk	1			
Total Slots:		11			

Number of Slots Field 2 @ 132nd Square					
Monday	4pm - Dusk	1			
Tuesday	4pm - Dusk	1			
Wednesday	3:00pm - Dusk	1			
Thursday	4pm - Dusk	1			
Friday	4pm - Dusk	1			
Saturday	9am - 12pm	1			
Saturday	12pm - 3pm	1			
Saturday	3pm - 6pm	1			
Saturday	6pm - Dusk	1			
Sunday	9am - 12pm	1			
Sunday	12pm - 3pm	1			
Sunday	3pm - 6pm	1			
Sunday	6pm - Dusk	1			
Total Slots:		13			

Number of Slots Field 1 & 2 at KiMS, KMS & FHMS						
Monday	4:30pm - Dusk	1				
Tuesday	4:30pm - Dusk	1				
Wednesday	3:30pm - Dusk	1				
Thursday	4:30pm - Dusk	1				
Friday	4:30pm - Dusk	1				
Saturday	9am - 12pm	1				
Saturday	12pm - 3pm	1				
Saturday	3pm - 6pm	1				
Saturday	6pm - Dusk	1				
Sunday	9am - 12pm	1				
Sunday	12pm - 3pm	1				
Sunday	3pm - 6pm	1				
Sunday	6pm - Dusk	1				
Total Slots:		13				

		_	Daylight/Rain Days Ave	Dain Davis
	Sunrise	Twilight End	Hours of Daylite	Rain Days
January	7:55	5:03	9	8.8
February	7:32	5:43	10.3	7.8
March	6:46	6:24	12	8.9
April	6:44	8:10	13.7	8.1
May	5:48	8:55	15.2	7
June	5:12	9:38	15.9	5.4
July	5:13	9:50	15.5	4.2
August	5:45	9:19	14.2	2.8
September	6:26	8:21	12.5	6
October	7:07	7:18	10.8	7.2
November	7:52	6:23	9.3	9.1
December	7:35	4:54	8.5	8.9

Compari	son of Natural Turf Field	d with 3 Scenarios and Artificial Turf	Life Cycle Costs (20 Year Cycle)
Qualitative version	Synthetic Turf	Natural Grass - Scenario 1 4-year refurbishment cycle	Natural Grass - Scenario 2 Field rest every other year	Natural Grass - Scenario 3 No refurbishment or rest
Current usage intensity: Tier 3	Quality: High	Quality: Poor	Quality: Poor	Quality: Poor
(allows >1000 hrs/yr). Assume 1600	Expense: High	Expense: High	Expense: Moderate	Expense: Moderate
	Usage: High	Usage: High	Usage: High	Usage: High
	N/A	Quality: Moderate	Quality: Poor	Quality: Poor
Usage intensity limited to Tier 2 (800-1000 hrs/yr). Assume 1000		Expense: High	Expense: Moderate	Expense: Moderate
		Usage: Moderate	Usage: Moderate	Usage: Moderate
Usage intensity limited to Tier 1	N/A	Quality: High	Quality: High	Quality: Moderate
(sustainable capacity of <800 hrs/year). Assume 800		Expense: High	Expense: Moderate	Expense: Moderate
		Usage: Low	Usage: Low	Usage: Low

Quantitative version		Synthetic Turf	Natural Grass - Scenario 1 4-year refurbishment cycle	Natural Grass - Scenario 2 Field rest every other year	Natural Grass - Scenario 3 No refurbishment or rest
	Amusal Maint	Quality: High	Quality: Poor	Quality: Poor	Quality: Poor
Current usage intensity: Tier 3	Annual Maint + Capital Cost	\$103,483	\$87,875	\$71,750	\$76,500
(allows >1000 hrs/yr). Assume 1600	Cost Per Permitted Hour	\$64.68	\$54.92	\$44.84	\$47.81
		Usage: High	Usage: High	Usage: High	Usage: High
		N/A	Quality: Moderate	Quality: Poor	Quality: Poor
Usage intensity limited to Tier 2	Annual Maint + Capital Cost		\$87,875	\$71,750	\$76,500
(800-1000 hrs/yr). Assume 1000	Cost Per Permitted Hour		\$87.88	\$71.75	\$76.50
			Usage: Moderate	Usage: Moderate	Usage: Moderate
		N/A	Quality: High	Quality: High	Quality: Moderate
Usage intensity limited to Tier 1 (sustainable capacity of <800 hrs/year).	Annual Maint + Capital Cost		\$87,875	\$71,750	\$76,500
Assume 800	Cost Per Permitted Hour		\$109.84	\$89.69	\$95.63
			Usage: Low	Usage: Low	Usage: Low

		_ ,		Rate (avg		ral Grass Itemized Anni			Deprecia			Fuel Cost Per	
Task		Times/ Year	Labor Hours	hourly + benefits)	Subtotal Labor	Supplies	Subtotal Supplies	Equip.	Per Task	Per Year	Fuel (gal)	Year @ \$1.50/gal	Total
Core Aerate		2	4	\$35.00	\$280.00		ſ	Massey	\$50.00	\$100.00	10	\$30.00	\$410.00
						8lbs (per 1000 sq.ft) *							
						113.256 * 1.58 per lb							
Aerate/Seed		2	5	¢35.00	\$350.00	TriRye Seed Mix = \$1,431/application	\$2,864.00 I	Massay	\$50.00	\$100.00	10	\$30.00	\$3,344.00
Aciale/Seed		2		is 2 persons at ؛	•	\$1,431/application	φ2,004.00 1	viassey	φ30.00	\$100.00	10	φ30.00	φ3,344.00
Top Dress		1	12	\$35.00) Compost@ \$1200	\$1,200.00 H	Kabota	\$50.00	\$50.00	20	\$60.00	\$1,730.00
'			*note above	is 2 persons at	6 hours each (w	ould like to increase this to 2X per ye		Topdresser				·	. ,
						8lbs (per 1000 sq.ft) *							
						113.256 * 1.58 per lb							
						TriRye Seed Mix =							
Slice Seed & Roll		4	8		\$1,120.00	\$1431/application	\$5,728.00	Massey	\$50.00	\$200.00	10	\$60.00	\$7,108.00
			*note above	is 2 persons at	4 hours each								
						5 lbs (per 1000) * 113.256							
						* .28 (per 50 lb bag) =							
Fertilizing		3	5	\$35.00	\$525.00	\$158/application	\$475.65 I	Massey	\$50.00	\$150.00	10	\$45.00	\$1,195.65
			*note above	is 2 persons at			_	_					
Mowing		45	1	\$35.00	\$1,575.00			Γoro	\$50.00	\$2,250.00	10	\$900.00	\$4,725.00
Field Paint	Spring	20	4	\$35.00	\$2,800.00	@ \$49.50 (per 5gal) =	\$1,980.00 I	Machine/Truck	\$75.00	\$1,500.00	15	\$450.00	\$6,730.00
	Summer	10	4	\$35.00	\$1,400.00	\$100/5 gal. container	\$990.00	Machine/Truck	\$75.00	\$750.00	15	\$225.00	\$3,365.00
	Fall	20	4	\$35.00	\$2,800.00	\$200	\$1,980.00 I	Machine/Truck	\$75.00	\$1,500.00	15	\$450.00	\$6,730.00
						\$20 @ 18 lb/Acre							
Humate		1	4	\$35.00	\$140.00	\$840 per application	\$840.00	Massey	\$50.00	\$50.00	10	\$15.00	\$1,045.00
Renovate Plus		1	5	\$35.00	\$175.00	\$4140 per application	\$4,140.00	Massey	\$50.00	\$50.00	10	\$15.00	\$4,380.00
			*note above	is 2 persons at	2.5 hours each			-					
Irrigation		gallons											\$10,700.00
										ırf Maintena quare foot gr			\$51,462.65

									Depre	ciation			
				Rate			Fuel						
				(avg								Cost Per	
		Times/	Labor	hourly +	Subtotal		Subtotal					Year @	
Task		Year	Hours	benefits)	Labor	Supplies	Supplies	Equip.	Per Task	Per Year	Fuel (gal)		Total
				Rate								Fuel	
I				(avg								Cost Per	
I		Times/	Labor	hourly +	Subtotal		Subtotal					Year @	
Task		Year	Hours	benefits)	Labor	Supplies	Supplies	Equip.	Per Task	Per Year	Fuel (gal)	\$1.50/gal	Total
Inspect &	Groom	12	6	\$45.00	\$3,240.00			Massey	\$50.00	\$600.00	10	\$180.00	\$4,020.00
Address G	Poole	9		\$45.00	\$1,620.00		 	Hand	\$0.00	\$0.00	0	\$0.00	\$1,620.00
Add infill	J0a15	1		\$45.00		\$8,000.00	 	Massey	\$500.00	•			
Add IIIIII		1		φ 4 3.00	φυσυ.συ	φυ,υυυ.υυ		Massey	φυυ.υυ	φυυυ.υυ	10	φ10.00	φο,οι σ.οι
Water		+ +				\$900.00							\$900.00
Field Pain	ıt	6	4	\$35.00	\$840.00	\$185	\$1,000	Machine/T	\$75	\$750	15	\$225	\$2,815.00
Contractor	rs Service:		_	_		\$2700 Fall Vi	-	k					\$2,700.00
<u> </u>		Standard C	3rooming 8	<u> Cleaning</u>	@ \$1,800 S	Spring Visit: L໌ເ	g. Field						\$1,800.00
1										Annual M	aintenance	e Total	\$22,730.00

*Industry Recommends Grooming every 80-100 hours of play

				Naturai	Grass ite	duced Maintenance Co	osis every	4 Tears due t	Deprecia	1011			
Task		Times/ Year	Labor Hours	Rate (avg hourly + benefits)	Subtotal Labor	Supplies	Subtotal Supplies	Equip.	Per Task	Per Year	Fuel (gal)	Fuel Cost Per Year @ \$1.50/gal	Total
Core Aerate		1	4	\$35.00	\$140.00			Massey	\$50.00	\$50.00	10	\$15.00	\$205.00
						8lbs (per 1000 sq.ft) * 113.256 * 1.58 per lb TriRye Seed Mix =							
Aerate/Seed		1	5 *note above	\$35.00 is 2 persons at	\$175.00 2.5 hours each	\$1,431/application	\$1,432.00) Massey	\$50.00	\$50.00	10	\$15.00	\$1,672.00
Top Dress		1	12	\$35.00	\$420.00	Compost@ \$1200 ould like to increase this to 2X per y	\$1,200.00 ear)	Kabota Topdresser	\$50.00	\$50.00	20	\$60.00	\$1,730.0 0
			0	Ф 25.00	A #2000 00	8lbs (per 1000 sq.ft) * 113.256 * 1.58 per lb TriRye Seed Mix =	#4.400.0	2 Marzani	# 50.00	#50.00	40	045.00	04.777.00
Slice Seed & Roll		1	8 *note above	is 2 persons at	\$280.00 4 hours each	\$1431/application	\$1,432.00	Massey	\$50.00	\$50.00	10	\$15.00	\$1,777.00
						5 lbs (per 1000) * 113.256 * .28 (per 50 lb bag) =							
Fertilizing		1	5 *note above	\$35.00 is 2 persons at 3	\$175.00	\$158/application	\$158.5	5 Massey	\$50.00	\$50.00	10	\$15.00	\$398.55
Mowing		16	1		\$560.00			Toro	\$50.00	\$800.00	10	\$900.00	\$2,260.00
Field Paint	Spring	20	4		\$2,800.00	@ \$49.50 (per 5gal) =) Machine/Truck) Machine/Truck	\$75.00 \$75.00	\$1,500.00	15	\$450.00	\$6,730.00
	Summer Fall	8 20	4 4		\$1,120.00 \$2,800.00		,) Machine/Truck	\$75.00	\$600.00 \$1,500.00	15 15	\$180.00 \$450.00	\$2,692.00 \$6,730.00
Humate		1	4	\$35.00	\$140.00	\$20 @ 18 lb/Acre \$840 per application	\$840.00) Massey	\$50.00	\$50.00	10	\$15.00	\$1,045.00
Renovate Plus		1	5 *note above	\$35.00 is 2 persons at	\$175.00 2.5 hours each	\$4140 per application	\$4,140.00) Massey	\$50.00	\$50.00	10	\$15.00	\$4,380.00
Irrigation		800,000	gallons of w	ater per yea	r (wholesale)) = 1070 hcfs at the current r	ate of 10.00						\$10,700.00
										rf Maintenai			\$31,859.55 0.31