



APPENDIX

**Athletic Field Requirements
Lake Oswego, Oregon
23 June 2001**

Summary technical findings and implications

Baseball/softball

1: There are enough total baseball/softball fields in the park and school systems (not accounting for field quality) (576 slot capacity per peak week in June) to satisfy current peak week game and practice requirements (421 slot requirements per peak week in June equal to an 155 slot surplus) – were these fields upgraded and scheduled effectively. Consequently, there is no ***immediate*** requirement to buy and develop fields.

(Note: Portland Community College and Marylhurst University land has not been included in existing inventories, nor has it been used to estimate acres required to meet future needs.)

2: However, the margin is relatively thin for fields in the 65x225/280/300 preferred size (5 slot residual per peak week in June).

3: This assumes most fields are available during the week between 4:00 and 9:00 pm for the youngest ages, 5:00 and 10:00 pm for all others. It also assumes the average practice or game slot to be 1.5-2.0 hours for the youngest ages, and 3.0 hours for the oldest ages.

4: This also assumes games will be played between 8:30 am and 8:30 pm on Saturday and 1:00 and 8:30 pm on Sunday for the youngest ages, and 10:00 am and 10:00 pm on Saturday and 1:00 and 10:00 pm on Sunday for the oldest ages.

Short term strategies

5: ***Upgrade the existing*** smaller size fields at elementary schools and light the high school fields to provide practice and play capacity for this age group.

Long term strategies

6: ***Develop additional fields*** in the 65/90x300 foot configuration with lights to increase capacity for older age groups and competition tournaments – and to anticipate future population increase. Also, ***pursue user agreements***, if possible, for use of the competition facilities at Marylhurst and Portland Community Colleges.

These combined actions will increase the residual field capacity to 302 slots – enough to meet potential population needs.

Soccer/football

1: There are not enough total soccer/football fields in the park and school systems (not accounting for field quality) (433 slot capacity per peak week in October) to satisfy current peak week game and practice requirements (428 slot soccer and 113 slot football requirements per peak week in June equal to a 118 slot deficit) – were these fields upgraded and scheduled effectively. Consequently, there is an ***immediate*** requirement to buy and develop more soccer fields.

2: The margin is very thin for fields in the 159/180x300/360 preferred soccer field size for (a shortage of 146 slots per peak week in October).

3: This assumes most fields are available during the week between 4:00 and 7:00 pm for the youngest ages, 4:00 and 10:00 pm for all others. It also assumes the average practice or game slot to be 1.0-2.0 hours for the youngest ages, and 3.0-4.0 hours for the oldest ages.

4: This also assumes games will be played between 8:30 am and 7:00 pm on Saturday and 11:30 and 7:00 pm on Sunday for the youngest ages, and 9:00 am and 10:00 pm on Saturday and 12:00 and 10:00 pm on Sunday for the oldest ages.

Short term strategies

5: **Develop additional soccer fields** in the 180/210x300/360 foot configuration with lights to increase capacity for older age groups and competition tournaments – and to anticipate future population increase. Also, **pursue user agreements**, if possible, for use of the competition facilities at Marylhurst and Portland Community Colleges.

Baseball/softball field analysis

Baseball/softball
Organizational profile

	Sponsor	Year established	Profit/nonprofit status	Membership fee	Annual fee per player	Service area	Age	Sex	Percent female	Total players in league	Players from city	City percent	Percent of city
Lake Oswego Parks T-Ball C	LO Parks		np	\$65	LO	6	coed						0%
Skyhawks Youth Sports Cam	LO Parks		np	0	\$86	Waluga	6-14	coed	unk	94	61	65%	2%
Lakeridge Sports Camp			np	0		LOSD	7-15	boys		150	143	95%	5%
Subtotal youth camps										244	204	83%	7%
Parks Youth Sports League	LO Parks		np	0	\$18	LO	15-18	coed	40%	240	216	90%	7%
LO Little League - spring	LO Little League		np		\$65	LO	5-12	coed	33%	752	737	98%	25%
LO Little League - fall	LO Little League		np		\$65	LO	9-12	boys		144	115	80%	4%
Waluga Little League	Waluga Little League		np		\$65	LOSD	5-12	coed	33%	632	619	98%	21%
Babe Ruth	Babe Ruth		np		\$120	LOSD	13-15	boys		168	168	100%	6%
Junior Baseball	Jr Baseball of OR	1997	np	0	\$150	LOHS	13-15	boys	0%	84	84	100%	3%
American Legion	LO HS				\$0	LOSD	15-18	boys		48	48	100%	2%
American Legion	Lakeridge HS				\$0	LOSD	15-18	boys		48	48	100%	2%
ASA Softball	ASA					Metro	12-16	girls	100%	28	14	50%	0%
Subtotal youth leagues										2144	2050	96%	69%
Lake Oswego HS	LOSD		np	na	\$120	LOSD	14-18	coed		76	76	100%	3%
Lakeridge HS	LOSD		np	na	\$120	LOSD	14-18	coed		82	82	100%	3%
Westside Christian HS	Westside CHS	1981	np	na	\$120	Metro	14-18	coed		40	12	30%	0%
Subtotal school teams										198	170	86%	6%
City League Coed	City League	1984	np	0	\$24	LO	18+	coed	40%	560	392	70%	13%
Mens Softball		1970	np		\$54	LO	18+	coed	0%	252	176	70%	6%
Subtotal adult leagues										812	568	70%	19%
TOTAL										3398	2992	88%	100%

Baseball/softball Game requirements

	Age	Sex	Base path		Surface	Players/team	Number of teams		Total number of players		Number of games/team not including tournaments in season		Weeks in season schedule		Equals number of game requirements per week per team		Total number of games for all teams all weeks		Percent home games played inside city		Total number of home games all teams all w		Percent rain-out		Required game slots all teams		Game slots/week		Season		
			Outfield																												
Parks T-Ball	3.5-6	coed	na	na							4	0.0																			
Skyhawks Youth Camp	6-14	coed	na	na	grs	94		94			2	0.0																	5	12, & 26 July	
Lakeridge Sports Camp	7-15	coed	na	na	grs	150		150			2	0.0																	5	12, & 26 July	
Subtotal youth camps								0	244				0		0			0		10											
Parks Youth Sports League	15-18	coed	90	300	grs	20	12	240	32	6	5.3	384	50%	192	0%	192	32													16 Apr-21 May	
Lk Oswego LL-T-Ball K	5	coed	60	150	grs	10	10	100	18	13	1.4	180	50%	90	0%	90	7													2 Apr-25 June	
Lk Oswego LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	19	13	1.5	190	50%	95	0%	95	7													2 Apr-25 June	
Lk Oswego LL-S-Ball Farm	7-8	girls	60	150	grs	12	2	24	20	13	1.5	40	50%	20	15%	23	2													2 Apr-25 June	
Lk Oswego LL-S-Ball Major	9-12	girls	60	200	grs	12	3	36	21	13	1.6	63	50%	32	15%	36	3													2 Apr-25 June	
Lk Oswego LL-S-Ball Minor	10-12	girls	60	200	grs	12	1	12	21	13	1.6	21	50%	11	15%	12	1													2 Apr-25 June	
Lk Oswego LL-International	7-8	boys	60	200	grs	12	10	120	20	13	1.5	200	50%	100	15%	115	9													2 Apr-25 June	
Lk Oswego LL-Pacific	8-9	boys	60	200	grs	12	10	120	21	13	1.6	210	50%	105	15%	121	9													2 Apr-25 June	
Lk Oswego LL-National	9-12	boys	60	200	grs	12	10	120	22	16	1.4	220	50%	110	15%	127	8													2 Apr-16 Jul	
Lk Oswego LL-American	10-12	boys	60	200	grs	12	10	120	26	16	1.6	260	50%	130	15%	150	9													2 Apr-16 Jul	
Lk Oswego LL-fall	9-12	girls	60	200	grs	12	8	96	26	9	2.9	208	50%	104	15%	120	13													20 Aug-15 Oct	
Lk Oswego LL-fall	9-12	boys	60	200	grs	12	4	48	26	9	2.9	104	50%	52	15%	60	7													20 Aug-15 Oct	
Waluga LL-T-Ball K	5	coed	60	150	grs	10	10	100	18	13	1.4	180	50%	90	0%	90	7													2 Apr-25 June	
Waluga LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	19	13	1.5	190	50%	95	0%	95	7														2 Apr-25 June
Waluga LL-S-Ball Farm	7-8	girls	60	150	grs	12	6	72	20	13	1.5	120	50%	60	15%	69	5														2 Apr-25 June
Waluga LL-S-Ball Minor	9-12	girls	60	200	grs	12	3	36	21	13	1.6	63	50%	32	15%	36	3														2 Apr-25 June
Waluga LL-S-Ball Major	10-12	girls	60	200	grs	12	2	24	21	13	1.6	42	50%	21	15%	24	2														2 Apr-25 June
Waluga LL-International	7-8	boys	60	200	grs	12	5	60	20	13	1.5	100	50%	50	15%	58	4														2 Apr-25 June
Waluga LL-Pacific	8-9	boys	60	200	grs	12	6	72	21	13	1.6	126	50%	63	15%	72	6														2 Apr-25 June
Waluga LL-National	9-12	boys	60	200	grs	12	6	72	22	16	1.4	132	50%	66	15%	76	5														2 Apr-16 Jul
Waluga LL-American	10-12	boys	60	200	grs	12	8	96	26	16	1.6	208	50%	104	15%	120	7														2 Apr-16 Jul
Babe Ruth	13-15	boys	90	300	grs	12	8	96	36	14	2.6	288	33%	95	15%	109	8													26 Mar-28 June	
Babe Ruth Fall Ball	13-15	boys	90	300	grs	12	6	72	27	9	3.0	162	33%	53	15%	61	7														20 Aug-15 Oct
Junior Baseball	13-15	boys	90	320	grs	12	7	84	26	13	2.0	182	33%	60	15%	69	5														7 May-31 July
American Legion - LO	15-18	boys	90	330	grs	16	3	48	50	8	6.3	150	33%	50	15%	57	7														7 June-31 July
American Legion - Lake	15-18	boys	90	330	grs	16	3	48	50	8	6.3	150	33%	50	15%	57	7														7 June-31 July
ASA Softball	12-16	girls	65	280	grs	14	2	28	20	13	1.5	40	50%	20	15%	23	2														7 May-31 July
Subtotal youth leagues								175	2144			4213		1948		2156	189														
Lake Oswego HS Softball	14-18	girls	60	225	grs	14	2	28	24	10	2.4	48	50%	24	15%	28	3														15 Mar-20 May
Lake Oswego HS Baseball	14-18	boys	90	350	grs	16	3	48	26	10	2.6	78	50%	39	15%	45	4														15 Mar-20 May
Lakeridge HS Softball	14-18	girls	60	225	grs	14	2	28	24	10	2.4	48	50%	24	15%	28	3														15 Mar-20 May
Lakeridge HS Baseball	14-18	boys	90	350	grs	18	3	54	26	10	2.6	78	50%	39	15%	45	4														15 Mar-20 May
Westside CHS Softball	14-18	girls	60	225	grs	20	1	20	24	10	2.4	24	50%	12	15%	14	1														15 Mar-20 May
Westside CHS Baseball	14-18	boys	90	330	grs	20	1	20	26	10	2.6	26	50%	13	15%	15	1														15 Mar-20 May
Subtotal school teams								12	198			302		151		174	17														
Coed Softball	18+	coed	65	280	grs	16	35	560	16	12	1.3	560	50%	280	15%	322	27														18 June-6 Aug
Mens Softball	18+	men	65	280	grs	12	21	252	16	12	1.3	336	50%	168	15%	193	16														18 June-6 Aug
Subtotal adult leagues								56	812			896		448		515	43														
TOTAL								243	3398			5411		2547		2845	260														

Baseball/softball Game requirements

	Age	Sex	Base path		Surf:	Weeks 2000																									
			Outfield			Jan	Feb		Mar		Apr		May			Jun															
						2	9	6	3	9	6	3	0	7	5	2	9	6	2	9	6	3	0	7	4	1	2	2	1	1	
Parks T-Ball	3.5-6	coed	na	na																											
Skyhawks Youth Camp	6-14	coed	na	na	grs																										
Lakeridge Sports Camp	7-15	coed	na	na	grs																										
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parks Youth Sports Lea	15-18	coed	90	300	grs													32	32	32	32	32	32								
Lk Oswego LL-T-Ball K	5	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Lk Oswego LL-T-Ball 1st	6	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Lk Oswego LL-S-Ball Fa	7-8	girls	60	150	grs													2	2	2	2	2	2	2	2	2	2	2	2		
Lk Oswego LL-S-Ball M	9-12	girls	60	200	grs													3	3	3	3	3	3	3	3	3	3	3	3		
Lk Oswego LL-S-Ball M	10-12	girls	60	200	grs													1	1	1	1	1	1	1	1	1	1	1	1		
Lk Oswego LL-Internatid	7-8	boys	60	200	grs													9	9	9	9	9	9	9	9	9	9	9	9		
Lk Oswego LL-Pacific	8-9	boys	60	200	grs													9	9	9	9	9	9	9	9	9	9	9	9		
Lk Oswego LL-National	9-12	boys	60	200	grs													8	8	8	8	8	8	8	8	8	8	8	8		
Lk Oswego LL-American	10-12	boys	60	200	grs													9	9	9	9	9	9	9	9	9	9	9	9		
Lk Oswego LL-fall	9-12	girls	60	200	grs																										
Lk Oswego LL-fall	9-12	boys	60	200	grs																										
Waluga LL-T-Ball K	5	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Waluga LL-T-Ball 1st	6	coed	60	150	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Waluga LL-S-Ball Farm	7-8	girls	60	150	grs													5	5	5	5	5	5	5	5	5	5	5	5		
Waluga LL-S-Ball Minor	9-12	girls	60	200	grs													3	3	3	3	3	3	3	3	3	3	3	3		
Waluga LL-S-Ball Major	10-12	girls	60	200	grs													2	2	2	2	2	2	2	2	2	2	2	2		
Waluga LL-International	7-8	boys	60	200	grs													4	4	4	4	4	4	4	4	4	4	4	4		
Waluga LL-Pacific	8-9	boys	60	200	grs													6	6	6	6	6	6	6	6	6	6	6	6		
Waluga LL-National	9-12	boys	60	200	grs													5	5	5	5	5	5	5	5	5	5	5	5		
Waluga LL-American	10-12	boys	60	200	grs													7	7	7	7	7	7	7	7	7	7	7	7		
Babe Ruth	13-15	boys	90	300	grs												8	8	8	8	8	8	8	8	8	8	8	8	8		
Babe Ruth Fall Ball	13-15	boys	90	300	grs																										
Junior Baseball	13-15	boys	90	320	grs																				5	5	5	5	5		
American Legion - LO	15-18	boys	90	330	grs																							7	7		
American Legion - Lake	15-18	boys	90	330	grs																							7	7		
ASA Softball	12-16	girls	65	280	grs																					2	2	2	2		
Subtotal youth leagues						0	0	0	0	0	0	0	0	0	0	0	8	109	109	141	141	141	148	148	148	116	116	131	131		
Lake Oswego HS Softball	14-18	girls	60	225	grs												3	3	3	3	3	3	3	3	3	3	3	3			
Lake Oswego HS Baseball	14-18	boys	90	350	grs												4	4	4	4	4	4	4	4	4	4	4	4			
Lakeridge HS Softball	14-18	girls	60	225	grs												3	3	3	3	3	3	3	3	3	3	3	3			
Lakeridge HS Baseball	14-18	boys	90	350	grs												4	4	4	4	4	4	4	4	4	4	4	4			
Westside CHS Softball	14-18	girls	60	225	grs												1	1	1	1	1	1	1	1	1	1	1	1			
Westside CHS Baseball	14-18	boys	90	330	grs												1	1	1	1	1	1	1	1	1	1	1	1			
Subtotal school teams						0	0	0	0	0	0	0	0	0	17	17	17	17	17	17	17	17	17	17	17	17	17	0	0	0	
Coed Softball	18+	coed	65	280	grs																						27	27	27		
Mens Softball	18+	men	65	280	grs																						16	16	16		
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	43	43	
TOTAL						0	0	0	0	0	0	0	0	0	17	17	25	127	127	159	159	159	166	166	209	159	159	174	174		

Baseball/softball Practice requirements by size

	Age	Sex	Base path			Surface	Players/team		Number of teams	Total players	Number pre-season weeks	Number of practices/week/team	Number of preseason practices/team all weeks	Total practice slots/preseason week all teams	Pre-season dates	Season weeks			
			Infield	Outfield	Grass		Grass	Grass								Grass	Grass	Grass	Grass
Parks T-Ball	3.5-6	coed	na	na	grs									no practice					no practice
Skyhawks Youth Camp	6-14	coed	na	na	grs			94						no practice					no practice
Lakeridge Sports Camp	7-15	coed	na	na	grs			150						no practice					no practice
Subtotal youth camps						0	244	0	0										0
Lk Oswego LL-T-Ball K	5	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June	
Lk Oswego LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June	
Lk Oswego LL-S-Ball Fa	7-8	girls	60	150	grs	12	2	24	2	4	8	8	19 Mar-2 Apr	13	1.5	20	3	2 Apr-25 June	
Waluga LL-T-Ball K	5	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June	
Waluga LL-T-Ball 1st	6	coed	60	150	grs	10	10	100	1	3	3	30	26 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June	
Waluga LL-S-Ball Farm	7-8	girls	60	150	grs	12	6	72	2	4	8	24	19 Mar-2 Apr	13	1.5	20	9	2 Apr-25 June	
Subtotal						48	496	8	152										72
Lk Oswego LL-S-Ball M	9-12	girls	60	200	grs	12	3	36	2	4	8	12	19 Mar-2 Apr	13	2.0	26	6	2 Apr-25 June	
Lk Oswego LL-S-Ball M	10-12	girls	60	200	grs	12	1	12	2	4	8	4	19 Mar-2 Apr	13	2.0	26	2	2 Apr-25 June	
Lk Oswego LL-Internatic	7-8	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June	
Lk Oswego LL-Pacific	8-9	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	13	1.5	20	15	2 Apr-25 June	
Lk Oswego LL-National	9-12	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	16	2.0	32	20	2 Apr-16 Jul	
Lk Oswego LL-American	10-12	boys	60	200	grs	12	10	120	3	4	12	40	12 Mar-2 Apr	16	2.0	32	20	2 Apr-16 Jul	
Lk Oswego LL-fall	9-12	girls	60	200	grs	12	8	96	2	0	0	0	6 Aug-20 Aug	9	0.0	0	0	20 Aug-15 Oct	
Lk Oswego LL-fall	9-12	boys	60	200	grs	12	4	48	2	0	0	0	6 Aug-20 Aug	9	0.0	0	0	20 Aug-15 Oct	
Waluga LL-S-Ball Minor	9-11	girls	60	200	grs	12	3	36	2	4	8	12	19 Mar-2 Apr	13	2.0	26	6	2 Apr-25 June	
Waluga LL-S-Ball Major	11-12	girls	60	200	grs	12	2	24	2	4	8	8	19 Mar-2 Apr	13	2.0	26	4	2 Apr-25 June	
Waluga LL-International	7-8	boys	60	200	grs	12	5	60	3	4	12	20	12 Mar-2 Apr	13	1.5	20	8	2 Apr-25 June	
Waluga LL-Pacific	8-9	boys	60	200	grs	12	6	72	3	4	12	24	12 Mar-2 Apr	13	1.5	20	9	2 Apr-25 June	
Waluga LL-National	9-11	boys	60	200	grs	12	6	72	3	4	12	24	12 Mar-2 Apr	16	2.0	32	12	2 Apr-16 Jul	
Waluga LL-American	11-12	boys	60	200	grs	12	8	96	3	4	12	32	12 Mar-2 Apr	16	2.0	32	16	2 Apr-16 Jul	
Subtotal						86	1032	296											133
Lake Oswego HS Softba	14-18	girls	60	225	grs	14	2	28	2	5	10	10	1 Mar-14 Mar	10	4.0	40	8	15 Mar-20 May	
Lakeridge HS Softball	15-18	girls	60	225	grs	14	2	28	2	5	10	10	1 Mar-14 Mar	10	4.0	40	8	15 Mar-20 May	
Westside CHS softball	14-18	girls	60	225	grs	20	1	20	2	5	10	5	1 Mar-14 Mar	10	4.0	40	4	15 Mar-20 May	
Subtotal						5	76	25											20
ASA Softball	12-16	girls	65	280	grs	14	2	28	3	3	9	6	15 Apr-7 May	13	2.0	26	4	7 May-31 July	
Coed Softball	18+	coed	65	280	grs	16	35	560						no practice					no practice
Mens Softball	18+	men	65	280	grs	12	21	252						no practice					no practice
Subtotal						58	840	6											4
Parks Youth Sports Lea	15-18	coed	90	300	grs	20	12	240	2	4	8	48	2 Apr-16 Apr	6	0.0	0	0	16 Apr-21 May	
Babe Ruth	13-15	boys	90	300	grs	12	8	96	3	3	8	21	6 Mar-25 Mar	14	2.0	28	16	26 Mar-28 June	
Babe Ruth Fall Ball	13-15	boys	90	300	grs	12	6	72	3	4	12	16	1 Aug-20 Aug	9	1.0	9	6	20 Aug-15 Oct	
Junior Baseball	13-15	boys	90	320	grs	12	7	84	3	4	12	28	15 Apr-7 May	13	2.0	26	14	7 May-31 July	
American League - LO	15-18	boys	90	330	grs	12	4	48	0	0	0	0		8	1.0	8	4	7 June-31 July	
American League - Lake	15-18	boys	90	330	grs	12	4	48	0	0	0	0		8	1.0	8	4	7 June-31 July	
Subtotal youth leagues						41	588	113											44
Lake Oswego HS Baseb	14-18	boys	90	330	grs	16	3	48	2	5	10	15	1 Mar-14 Mar	10	4.0	40	12	15 Mar-20 May	
Lakeridge HS Baseball	15-18	boys	90	330	grs	18	3	54	2	5	10	15	1 Mar-14 Mar	10	4.0	40	12	15 Mar-20 May	
Westside CHS baseball	14-18	boys	90	330	grs	20	1	20	2	5	10	5	1 Mar-14 Mar	10	4.0	40	4	15 Mar-20 May	
Subtotal school teams						7	122	35											28
TOTAL						245	3398	627											301

Baseball/softball
Existing field condition/capabilities/utilizations

	Existing conditions								Nbr Qty Flds
	Multiuse	Lights		Infield dimensions		Outfield dimensions		Surface materials (synthetic/grass/sand) Quality	
		no	yes						
George Rogers Park LL#1	Parks	no	yes	60	200	grass	good	1	
George Rogers Park LL#2	Parks	no	yes	60	200	grass	good	1	
Waluga Park LL #1	Parks	no	yes	60	200	grass	good	1	
Waluga Park #2	Parks	no	yes	90	300	grass	good	1	
Westlake Park LL #1	Parks	no	yes	60	200	grass	good	1	
Westlake Park #2	Parks	no	yes	90	300	grass	good	1	
Westlake Park #3	Parks	no	yes	90	300	grass	good	1	
Subtotal Parks								7	
Bryant ES #1	LOSD	no	no	60	200	grass	good	1	
Bryant ES #2	LOSD	no	no	60	200	grass	good	1	
Forest Hills ES #1	LOSD	no	no	60	200	grass	poor	0	
Forest Hills ES #2	LOSD	no	no	60	200	grass	poor	0	
Hallinan ES	LOSD	yes	no	60	200	grass	good	1	
Lake Grove ES #1	LOSD	no	no	60	200	grass	average	1	
Lake Grove ES #2	LOSD	no	no	60	200	grass	average	1	
Lake Oswego HS #1	LOSD	no	yes	90	300	grass	good	1	
Lake Oswego HS #2	LOSD	no	yes	60	200	grass	good	1	
Lake Oswego JH LL#1	LOSD	no	yes	65	300	grass	good	1	
Lake Oswego JH SB#2	LOSD	no	yes	65	300	grass	good	1	
Lakeridge HS #1	LOSD	no	yes	90	300	grass	good	1	
Lakeridge HS #2	LOSD	no	no	90	300	grass	good	1	
Palisades #1	LOSD	no	no	60	200	grass	poor	0	
Palisades #2	LOSD	no	no	60	150	grass	poor	0	
River Grove ES	LOSD	no	no	60	150	grass	good	1	
Uplands ES #1	LOSD	no	no	60	180	grass	good	1	
Uplands ES #2	LOSD	no	no	60	180	grass	good	1	
Waluga JH LL#1	LOSD	no	yes	90	300	grass	good	1	
Waluga JH LL#2	LOSD	no	yes	60	200	grass	good	1	
Waluga JH LL#3	LOSD	no	yes	60	200	grass	good	1	
Westridge ES	LOSD	yes	no	60	200	grass	average	1	
Subtotal LOSD								18	
Lewis & Clark College	Prvt	no					no use	1	
Marylhurst College	Prvt	no					prvt	1	
Subtotal others								2	
TOTAL								27	

practice/T-ball only

w/1999 bonds

w/1999 bonds

w/1999 bonds

w/1999 bonds

w/1999 bonds

practice/T-ball only

Good - artificial turf, grass or all-weather surface fields in good condition with few bare spots or weeds. Goal posts or backstops are in good condition. May include site amenities such as lights, restrooms, storage, dug-outs, or large bleachers. Fields are usually irrigated and on-going maintenance is evident.

Average - soil, and/or rubber mix fields or grass fields with uneven surface or with some ruts, stones, etc.

May show evidence of poor drainage. May include additional amenities such as bleachers or water fountains.

May or may not be irrigated. Maintenance is limited and some renovation is needed to maximize capacity.

Poor - field has cinder or cirtrex surface or contains numerous ruts, rocks and/or weeds. Field is not used irrigated.

Amenities limited to backstops or goal posts which may be too small and/or in poor condition. Fields may have severe drainage problems, uneven surfaces or slope in one direction. Complete renovation is needed. Receives minimum maintenance under present conditions.

* indicates number of teams indicating use of field divided by number of fields per site.

Baseball/softball
Existing field scheduling by size

	Age	Sex	Base path	Outfield	Surface	Monday-Friday		Saturday		Sunday		Total/ week				
						Starting time	Ending time	Starting time	Ending time	Starting time	Ending time					
						Hours per day		Hours per week								
						am	pm	am	pm	am	pm					
Parks T-Ball	3.5-6	coed	na	na		9:00	4:00	7.0	35.0				35			
Skyhawks Youth Car	6-14	coed	na	na		9:00	4:00	7.0	35.0				35			
Lakeridge Sports Car	7-15	coed	na	na		9:00	4:00	7.0	35.0				35			
Lk Oswego LL-T-Ball	5	coed	60	150	grs	5:30	8:30	3.0	15.0	9:00	8:30	11.5	27			
Lk Oswego LL-T-Ball	6	coed	60	150	grs	5:30	8:30	3.0	15.0	9:00	8:30	11.5	27			
Lk Oswego LL-S-Ball	7-8	girls	60	150	grs	5:30	8:30	3.0	15.0	9:00	8:30	11.5	27			
Waluga LL-T-Ball K	5	coed	60	150	grs	5:30	8:30	3.0	15.0	9:00	8:30	11.5	27			
Waluga LL-T-Ball 1st	6	coed	60	150	grs	5:30	8:30	3.0	15.0	9:00	8:30	11.5	27			
Waluga LL-S-Ball Fa	7-8	girls	60	150	grs	5:30	8:30	3.0	15.0	9:00	8:30	11.5	27			
Lk Oswego LL-S-Ball	9-12	girls	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Lk Oswego LL-S-Ball	10-12	girls	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Lk Oswego LL-Intern	7-8	boys	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Lk Oswego LL-Pacific	8-9	boys	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Lk Oswego LL-Nation	9-12	boys	60	200	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Lk Oswego LL-Ameri	10-12	boys	60	200	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Lake Oswego LL-fall	9-12	girls	60	200	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Lake Oswego LL-fall	9-12	boys	60	200	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Waluga LL-S-Ball Mi	9-12	girls	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Waluga LL-S-Ball Ma	10-12	girls	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Waluga LL-Internatio	7-8	boys	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Waluga LL-Pacific	8-9	boys	60	200	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Waluga LL-National	9-12	boys	60	200	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Waluga LL-American	10-12	boys	60	200	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Lake Oswego HS So	14-18	girls	60	225	grs	3:00	7:00	4.0	20.0				20			
Lakeridge HS Softba	14-18	girls	60	225	grs	3:00	7:00	4.0	20.0				20			
Westside CHS softba	14-18	girls	60	225	grs	3:00	7:00	4.0	20.0				20			
ASA Softball	12-16	girls	65	280	grs	5:30	9:00	3.5	17.5	9:00	8:30	11.5	29			
Coed Softball	18+	coed	65	280	grs	6:00	10:00	4.0	20.0				20			
Mens Softball	18+	men	65	280	grs	6:00	10:00	4.0	20.0				20			
Parks Youth Sports L	15-18	coed	90	300	grs	6:30	9:30	3.0	15.0				15			
Babe Ruth	13-15	boys	90	300	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	38			
Babe Ruth Fall Ball	13-15	boys	90	300	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	12:00	4:00	5.0	43
Junior Baseball	13-15	boys	90	320	grs	5:00	10:00	5.0	25.0	9:00	10:00	13.0	12:00	4:00	5.0	43
American Legion - LC	15-18	boys	90	330	grs	4:00	10:00	6.0	30.0	9:00	10:00	13.0	10:00	6:00	8.0	51
American Legion - La	15-18	boys	90	330	grs	4:00	10:00	6.0	30.0	9:00	10:00	13.0	10:00	6:00	8.0	51
Lake Oswego HS Ba	14-18	boys	90	350	grs	3:00	7:00	4.0	20.0				20			
Lakeridge HS Baseb	14-18	boys	90	350	grs	3:00	7:00	4.0	20.0				20			
Westside CHS baset	14-18	boys	90	350	grs	3:00	7:00	4.0	20.0				20			

Soccer/football field analysis

Soccer/football/lacrosse
Organizational profile

	Sponsor	Year established	Profit/nonprofit status	Membership fee	Annual fee	Service area	Age	Sex	Percent female	Total players in league	Players from city	City percent	Percent of city	
Lake Oswego Parks Soccer	Lake Oswego Parks				LOSD	3.5-6	coed			0	100%	0%		
Skyhawks Youth Sports Cam	Lake Oswego Parks	np		86	LOSD	7-14	coed	0.4	279	279	100%	6%		
School of Champions	Cmty Schools				LOSD	7-15			230	230	100%	5%		31 July-18 Aug
Chichina Soccer	Cmty Schools				LOSD	7-15			45	45	100%	1%		19-23 June
Willamette Soccer	Cmty Schools				LOSD	7-15			42	42	100%	1%		24-28 July
Willamette Soccer	Cmty Schools				LOSD	7-15			50	50	100%	1%		7-11 August
Willamette Soccer	Cmty Schools				LOSD	7-15			65	65	100%	1%		14-18 August
Willamette Soccer	Cmty Schools				LOSD	7-15			100	100	100%	2%		24-28 July, 31-4 Au
Subtotal soccer camps										811	811	100%	17%	
Soccer Rec League	Soccer Rec League					6-14	coed		2,609	2,285	88%	47%		
Soccer Classic League	Soccer Classic					6-14	coed		407	291	71%	6%		
Subtotal youth leagues										3,016	2,576	85%	53%	
Lake Oswego HS Soccer	LOSD				LOSD	14-18	girls		66	66	100%	1%		
Lake Oswego HS Soccer	LOSD				LOSD	14-18	boys		66	66	100%	1%		
Lake Oswego HS Lacrosse	LOSD				LOSD	14-18	girls		46	46	100%	1%		
Lake Oswego HS Lacrosse	LOSD				LOSD	14-18	boys		52	52	100%	1%		
Lake Oswego HS Football	LOSD				LOSD	14-18	boys		105	105	100%	2%		
Lakeridge HS Soccer	LOSD				LOSD	14-18	girls		66	66	100%	1%		
Lakeridge HS Soccer	LOSD				LOSD	14-18	boys		66	66	100%	1%		
Lakeridge HS Lacrosse	LOSD				LOSD	14-18	girls		46	46	100%	1%		
Lakeridge HS Lacrosse	LOSD				LOSD	14-18	boys		52	52	100%	1%		
Lakeridge HS Football	LOSD				LOSD	14-18	boys		105	105	100%	2%		
Westside Christian HS Socce	LOSD				Metro	14-18	girls		44	13	30%	0%		
Westside Christian HS Socce	LOSD				Metro	14-18	boys		44	13	30%	0%		
Subtotal school teams										758	696	92%	14%	
City League Adult 35+	City League	np		\$375	LOSD	>35	coed	40%	135	81	60%	2%		
City League Coed 18+	City League	np		\$400	LOSD	>18	coed	40%	180	108	60%	2%		
Subtotal adult leagues										315	189	60%	4%	
Lake Oswego Youth Football	LOHS	1998			LOSD	7-13	boys		300	294	98%	6%		
Lakeridge Youth Football	LRHS	1998			LOSD	7-13	boys		300	294	98%	6%		
Subtotal football/rugby										600	588	98%	12%	
TOTAL										5,500	4,860	88%	100%	

Soccer/football/lacrosse

Participation rates/projections

Includes players in more than 1 league and season.

Under 4

5

6

7

8

9

10

11

12

13

14

15

16

17

Over 18

	Under 4	5	6	7	8	9	10	11	12	13	14	15	16	17	Over 18	Total	Per cent city
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1999 city population*																	
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LO Parks Soccer Camp	3.5-6		0	0	0											0	100%
Skyhawks Youth Sports Cam	6-14			31	31	31	31	31	31	31	31	31				279	100%
School of Champions	7-15				26	26	26	26	26	26	26	26	26			230	100%
Chichina Soccer	7-15				5	5	5	5	5	5	5	5	5			45	100%
Comty Schools - LO	7-15				5	5	5	5	5	5	5	5	5			42	100%
Comty Schools - LO	7-15				6	6	6	6	6	6	6	6	6			50	100%
Comty Schools - LO	7-15				7	7	7	7	7	7	7	7	7			65	100%
Comty Schools - LR	7-15				11	11	11	11	11	11	11	11	11			100	100%

Subtotal youth camps

Soccer Rctn League	6-14			255	255	255	255	255	255	255	255	255				2609	88%
Soccer Classic League	6-14			32	32	32	32	32	32	32	32	32				407	71%

Subtotal youth leagues

Lake Oswego HS Soccer	14-18	girls										17	17	17	17	66	100%
Lake Oswego HS Soccer	14-18	boys										17	17	17	17	66	100%
Lake Oswego HS Lacrosse	14-18	girls										12	12	12	12	46	100%
Lake Oswego HS Lacrosse	14-18	boys										13	13	13	13	52	100%
Lake Oswego HS Football	14-18	boys										26	26	26	26	105	100%
Lakeridge HS Soccer	14-18	girls										17	17	17	17	66	100%
Lakeridge HS Soccer	14-18	boys										17	17	17	17	66	100%
Lakeridge HS Lacrosse	14-18	girls										12	12	12	12	46	100%
Lakeridge HS Lacrosse	14-18	boys										13	13	13	13	52	100%
Lakeridge HS Football	14-18	boys										26	26	26	26	105	100%
Westside Christian HS Socce	14-18	girls										3	3	3	3	44	30%
Westside Christian HS Socce	14-18	boys										3	3	3	3	44	30%

Subtotal school teams

City League Adult 35+	>35															81	135	60%
City League Coed	>18															108	180	60%

Subtotal adult leagues

Lake Oswego Youth Football	7-13	boys			3	24	35	47	71	47	71						300	98%
Lakeridge Youth Football	7-13	boys			3	24	35	47	71	47	71						300	98%

Subtotal football/rugby

TOTAL PARTICIPATION			0	0	318	383	424	448	471	518	471	518	551	233	174	174	189	5500
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Participation rate by age group

City population projections	2005																
	2010																
Player projections	2005																
	2010																

Source of population projections: Lake Oswego School District and Planning Office

* Adjusted to account for private school enrollments.

Soccer/football/lacrosse

Game requirements by size field

	Age	Sex	Width		Length	Surface	Players/team	Number of teams	Total number of players		Number of games/team not including tournaments		Weeks in season schedule		Equals number of game requirements per week per team		Total number of games for all teams all weeks		Percent home games played inside city		Total number of home games all teams all		Percent wind/snow-out		Required game slots all teams		Season	
Skyhawks Youth Camp	7-14	coed	na	na				279	3					0													8 July-23 Aug	
School of Champions	7-15							230	3																		31 July-18 Aug	
Chichina Soccer	7-15							45	2																		19-23 June	
Willamette Soccer	7-15							42	1																		24-28 July	
Willamette Soccer	7-15							50	1																		7-11 Aug	
Willamette Soccer	7-15							65	1																		14-18 Aug	
Willamette Soccer	7-15							100	2																		24-28 July, 31-4 A	
Subtotal youth camps								0	811				0		0		0											
Soccer Rec League	5-6	coed	50	150	grs			0	10	0.0	0	35%	0	5%	0	0												
Soccer Classic League	5-6	coed	50	150	grs			0	11	0.0	0	40%	0	5%	0	0												
								0	0				0		0													
Soccer Rec League	7-8	coed	120	150	grs	18	38	684	10	10	1.0	380	35%	133	1%	134	13										20 Aug-29 Oct	
Soccer Classic League	7-8	coed	120	150	grs	18	20	360	10	11	0.9	200	35%	70	1%	71	6										12 Mar- 28 May	
								58	1044				580		203		205											
Soccer Rec League	9-10	coed	159	300	grs	18	50	900	10	10	1.0	500	35%	175	1%	177	18										20 Aug-29 Oct	
Soccer Rec League	11-12	coed	159	300	grs	18	46	828	10	10	1.0	460	35%	161	1%	163	16										20 Aug-29 Oct	
Soccer Rec League	13-14	coed	159	300	grs	18	32	576	10	10	1.0	320	35%	112	1%	113	11										20 Aug-29 Oct	
Soccer Classic League	9-10	coed	159	300	grs	18	6	108	10	11	0.9	60	35%	21	1%	21	2										12 Mar- 28 May	
Soccer Classic League	11-12	coed	159	300	grs	18	7	126	10	11	0.9	70	35%	25	1%	25	2										12 Mar- 28 May	
Soccer Classic League	13-14	coed	159	300	grs	18	7	126	10	11	0.9	70	35%	25	1%	25	2										12 Mar- 28 May	
								148	2664				1480		518		523											
City League Adult-spring	>35	coed	180	330	allw	15	9	135	9	12	0.8	81	50%	41	5%	43	4										5 Apr-21 June	
City League Adult-fall	>35	coed	180	330	allw	15	9	135	9	12	0.8	81	50%	41	5%	43	4											21 Sep- 6 Dec
City League Coed-spring	>17	coed	180	360	allw	15	12	180	11	16	0.7	132	50%	66	5%	69	4										11 Mar-22 June	
City League Coed-fall	>17	coed	180	360	allw	15	12	180	11	11	1.0	132	50%	66	5%	69	6											10 Sep-19 Nov
Subtotal adult leagues								42	630				426		213		224											
Lake Oswego HS Soccer	15-18	girls	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov	
Lake Oswego HS Soccer	15-18	boys	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov	
Lakeridge HS Soccer	15-18	girls	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov	
Lakeridge HS Soccer	15-18	boys	195	330			22	3	66	20	13	1.5	60	50%	30	5%	32	2									26 Aug-20 Nov	
Westside CHS Soccer	15-18	girls	195	330			22	2	44	20	13	1.5	40	50%	20	5%	21	2									26 Aug-20 Nov	
Westside CHS Soccer	15-18	boys	195	330			22	2	44	20	13	1.5	40	50%	20	5%	21	2									26 Aug-20 Nov	
								16	352				320		160		168											
Lake Oswego HS Lacro	14-18	girls					23	2	46	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May	
Lake Oswego HS Lacro	14-18	boys					26	2	52	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May	
Lakeridge HS Lacrosse	14-18	girls					23	2	46	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May	
Lakeridge HS Lacrosse	14-18	boys					26	2	52	14	10	1.4	28	50%	14	5%	15	1									19 Mar-21 May	
								8	196				112		56		59											
Lake Oswego HS Footb	15-18	boys	159	300	syn	35	3	105	9	13	0.7	27	50%	14	5%	14	1										26 Aug-20 Nov	
Lakeridge HS Football	15-18	boys	159	300	syn	35	3	105	9	13	0.7	27	50%	14	5%	14	1										26 Aug-20 Nov	
								6	210				54		27		28											
Lake Oswego Youth Fo	7-9	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov	
	10-11	coed	159	300	syn	30	4	120	8	8	1.0	32	50%	16	0%	16	2.0										24 Sept-15 Nov	
	12-13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov	
	13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov	
Lakeridge Youth Footb	7-9	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov	
	10-11	coed	159	300	syn	30	4	120	8	8	1.0	32	50%	16	0%	16	2.0										24 Sept-15 Nov	
	12-13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov	
	13	coed	159	300	syn	30	2	60	8	8	1.0	16	50%	8	0%	8	1.0										24 Sept-15 Nov	
Subtotal football/rugby								20	600				160		80		80											
TOTAL								298	6507				3132		1257		1287											

Soccer/football/lacrosse

Game requirements by size fit

	Age	Sex	Width	Length	Surf.	weeks																			
						2000		Jan		Feb		Mar		Apr		May			Jun						
						Jan	1	2	2	1	2	2	1	1	2	1	2	3	1	2	2	1	1	2	
Skyhawks Youth Camp	7-14	coed	na	na																					
School of Champions	7-15																								
Chichina Soccer	7-15																							0	0
Willamette Soccer	7-15																								
Willamette Soccer	7-15																								
Willamette Soccer	7-15																								
Willamette Soccer	7-15																								0
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soccer Rec League	5-6	coed	50	150	grs																				
Soccer Classic League	5-6	coed	50	150	grs																				
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soccer Rec League	7-8	coed	120	150	grs																				
Soccer Classic League	7-8	coed	120	150	grs								6	6	6	6	6	6	6	6	6	6	6	6	6
Subtotal youth camps						0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6
Soccer Rec League	9-10	coed	159	300	grs																				
Soccer Rec League	11-12	coed	159	300	grs																				
Soccer Rec League	13-14	coed	159	300	grs																				
Soccer Classic League	9-10	coed	159	300	grs								2	2	2	2	2	2	2	2	2	2	2	2	2
Soccer Classic League	11-12	coed	159	300	grs								2	2	2	2	2	2	2	2	2	2	2	2	2
Soccer Classic League	13-14	coed	159	300	grs								2	2	2	2	2	2	2	2	2	2	2	2	2
Subtotal adult leagues						0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6
City League Adult-spring	>35	coed	180	330	allw												4	4	4	4	4	4	4	4	4
City League Adult-fall	>35	coed	180	330	allw																				
City League Coed-spring	>17	coed	180	360	allw								4	4	4	4	4	4	4	4	4	4	4	4	4
City League Coed-fall	>17	coed	180	360	allw																				
Subtotal adult leagues						0	0	0	0	0	0	0	4	4	4	4	8	8	8	8	8	8	8	8	8
Lake Oswego HS Soccer	15-18	girls	195	330																					
Lake Oswego HS Soccer	15-18	boys	195	330																					
Lakeridge HS Soccer	15-18	girls	195	330																					
Lakeridge HS Soccer	15-18	boys	195	330																					
Westside CHS Soccer	15-18	girls	195	330																					
Westside CHS Soccer	15-18	boys	195	330																					
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego HS Lacro	14-18	girls											1	1	1	1	1	1	1	1	1	1	1	1	1
Lake Oswego HS Lacro	14-18	boys											1	1	1	1	1	1	1	1	1	1	1	1	1
Lakeridge HS Lacrosse	14-18	girls											0	0	0	0	0	0	0	0	0	0	0	0	0
Lakeridge HS Lacrosse	14-18	boys											1	1	1	1	1	1	1	1	1	1	1	1	1
Subtotal adult leagues						0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4
Lake Oswego HS Footb	15-18	boys	159	300	syn																				
Lakeridge HS Football	15-18	boys	159	300	syn																				
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego Youth Foot	7-9	coed	159	300	syn																				
	10-11	coed	159	300	syn																				
	12-13	coed	159	300	syn																				
	13	coed	159	300	syn																				
Lakeridge Youth Footba	7-9	coed	159	300	syn																				
	10-11	coed	159	300	syn																				
	12-13	coed	159	300	syn																				
	13	coed	159	300	syn																				
Subtotal football/rugby						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL						0	0	0	0	0	0	0	4	22	22	22	25	25	25	25	25	25	25	25	25

Soccer/football/lacrosse

Practice requirements by size field

	Age	Sex	Width	Length	Surface	Players/team	Number of teams	Total number of players	Number pre-season weeks	Number of practices/week/team	Number of pre-season practices/team all weeks	Number of practice slots/preseason week all teams	Pre-season dates	Season weeks	Number of practices/week/team	Number of season practices	Total practices/season	Season dates
Skyhawks Youth Camp	7-14	coed	na	na				279	0	0				3	0	0	0	8 July-23 Aug
School of Champions	7-15							230	0	0				3	0	0	0	31 July-18 Aug
Chichina Soccer	7-15							45	0	0				2	0	0	0	19-23 June
Willamette Soccer	7-15							42	0	0				1	0	0	0	24-28 July
Willamette Soccer	7-15							50	0	0				1	0	0	0	7-11 Aug
Willamette Soccer	7-15							65	0	0				1	0	0	0	14-18 Aug
Willamette Soccer	7-15							100	0	0				2	0	0	0	24-28 July, 31-
Subtotal youth camps									0	811	0	0	0	0	0	0	0	0
Soccer Rec League	5-6	coed	50	150	grs			0	2	3	6	0	23 Jul-20 Aug	10	1.8	18	0	20 Aug-29 Oct
Soccer Classic League	6-7	coed	50	150	grs			0	2	3	6	0	20 Feb-19 Mar	10	1.8	18	0	19 Mar-28 May
									0	0	6	11	0	0	0	0	0	
Soccer Rec League	7-8	coed	120	150	grs	18	38	684	2	3	6	106	23 Jul-20 Aug	10	1.8	18	67	20 Aug-29 Oct
Soccer Classic League	7-8	coed	120	150	grs	18	20	360	2	3	6	56	20 Feb-19 Mar	10	1.8	18	35	19 Mar-28 May
									58	1044	6	11	162	0	0	0	102	
Soccer Rec League	9-10	coed	159	300	grs	18	50	900	2	3	6	140	23 Jul-20 Aug	10	1.8	18	88	20 Aug-29 Oct
Soccer Rec League	11-12	coed	159	300	grs	18	46	828	2	3	6	129	23 Jul-20 Aug	11	1.8	19	81	20 Aug-29 Oct
Soccer Rec League	13-14	coed	159	300	grs	18	32	576	2	3	6	90	23 Jul-20 Aug	11	1.8	19	56	20 Aug-29 Oct
Soccer Classic League	9-10	coed	159	300	grs	18	6	108	2	3	6	17	20 Feb-19 Mar	10	1.8	18	11	19 Mar-28 May
Soccer Classic League	11-12	coed	159	300	grs	18	7	126	2	3	6	20	20 Feb-19 Mar	10	1.8	18	12	19 Mar-28 May
Soccer Classic League	13-14	coed	159	300	grs	18	7	126	2	3	6	20	20 Feb-19 Mar	10	1.8	18	12	19 Mar-28 May
									148	2664	17	34	414	0	0	0	259	
City League Adult-spring	>35	coed	180	330	allw	15	9	135	0	0	0	0	no practice	12	0.0	0	0	5 Apr-21 June
City League-fall	>35	coed	180	330	allw	15	9	135	0	0	0	0	no practice	12	0.0	0	0	21 Sep-6 Dec
City League Coed-spring	>17	coed	180	360	allw	15	12	180	0	0	0	0	no practice	16	0.0	0	0	11 Mar-22 Jun
City League Coed-fall	>17	coed	180	360	allw	15	12	180	0	0	0	0	no practice	11	0.0	0	0	10 Sep-19 Nov
Subtotal adult leagues									42	630	0	0	0	0	0	0	0	0
Lake Oswego HS Soccer	14-18	girls	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lake Oswego HS Soccer	14-18	boys	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lakeridge HS Soccer	14-18	girls	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lakeridge HS Soccer	14-18	boys	195	330		22	3	66	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Westside CHS Soccer	14-18	girls	195	330		22	2	44	2	5	10	10	12 Aug-25 Aug	13	3.5	46	7	26 Aug-20 Nov
Westside CHS Soccer	14-18	boys	195	330		22	2	44	2	5	10	10	12 Aug-25 Aug	13	3.5	46	7	26 Aug-20 Nov
Subtotal school teams									16	352	30	60	80	0	0	0	56	
Lake Oswego HS Lacrosse	14-18	girls				23	2	46	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
Lake Oswego HS Lacrosse	14-18	boys				26	2	52	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
Lakeridge HS Lacrosse	14-18	girls				23	2	46	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
Lakeridge HS Lacrosse	14-18	boys				26	2	52	2	5	10	10	5 Mar-18 Mar	10	3.5	35	7	19 Mar-21 May
									8	196	20	40	40	0	0	0	28	
Lake Oswego HS football	14-18	boys	159	300	syn	35	3	105	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
Lakeridge HS Football	14-18	boys	159	300	syn	35	3	105	2	5	10	15	12 Aug-25 Aug	13	3.5	46	11	26 Aug-20 Nov
									6	210	10	20	30	0	0	0	21	
Lake Oswego Youth Football	7-9	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	10-11	coed	159	300	syn	30	4	120	3	4	12	16	1-23 Sept	8	4.0	32	16	24 Sept-15 No
	12-13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
Lakeridge Youth Football	7-9	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	10-11	coed	159	300	syn	30	4	120	3	4	12	16	1-23 Sept	8	4.0	32	16	24 Sept-15 No
	12-13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
	13	coed	159	300	syn	30	2	60	3	4	12	8	1-23 Sept	8	4.0	32	8	24 Sept-15 No
Subtotal football/rugby									20	600	32	96	80	0	0	0	80	
TOTAL									150	3843	103	238	392	0	0	0	287	

Soccer/football/lacrosse
Practice requirements by size f

	Age	Sex	Width	Length	Surf.	Number of Practices/team 2000																													
						January		Feb		Mar		Apr			May			Jun		Jul															
						1	2	1	2	1	1	2	1	2	3	1	2	2	1	1	2	1	2	1	2	1	2								
						2	9	6	3	9	6	3	0	7	5	2	9	6	2	9	6	3	0	7	4	1	8	4	1	8	5	2	9	6	3
Skyhawks Youth Camp	7-14	coed	na	na																													0	0	0
School of Champions	7-15																																		
Chichina Soccer	7-15																																		
Willamette Soccer	7-15																																		
Willamette Soccer	7-15																																		
Willamette Soccer	7-15																																		
Willamette Soccer	7-15																																		
Subtotal youth camps						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Soccer Rec League	5-6	coed	50	150	grs																														
Soccer Classic League	6-7	coed	50	150	grs																														
Soccer Rec League	7-8	coed	120	150	grs																														
Soccer Classic League	7-8	coed	120	150	grs																														
Soccer Rec League	9-10	coed	159	300	grs																														
Soccer Rec League	11-12	coed	159	300	grs																														
Soccer Rec League	13-14	coed	159	300	grs																														
Soccer Classic League	9-10	coed	159	300	grs																														
Soccer Classic League	11-12	coed	159	300	grs																														
Soccer Classic League	13-14	coed	159	300	grs																														
City League Adult-sprin	>35	coed	180	330	allw																														
City League-fall	>35	coed	180	330	allw																														
City League Coed-sprin	>17	coed	180	360	allw																														
City League Coed-fall	>17	coed	180	360	allw																														
Subtotal adult leagues						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego HS Soccer	14-18	girls	195	330																															
Lake Oswego HS Soccer	14-18	boys	195	330																															
Lakeridge HS Soccer	14-18	girls	195	330																															
Lakeridge HS Soccer	14-18	boys	195	330																															
Westside CHS Soccer	14-18	girls	195	330																															
Westside CHS Soccer	14-18	boys	195	330																															
Subtotal school teams						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lake Oswego HS Lacro	14-18	girls																																	
Lake Oswego HS Lacro	14-18	boys																																	
Lakeridge HS Lacrosse	14-18	girls																																	
Lakeridge HS Lacrosse	14-18	boys																																	
Lake Oswego HS footba	14-18	boys	159	300	syn																														
Lakeridge HS Football	14-18	boys	159	300	syn																														
Lake Oswego Youth Fo	7-9	coed	159	300	syn																														
	10-11	coed	159	300	syn																														
	12-13	coed	159	300	syn																														
	13	coed	159	300	syn																														
Lakeridge Youth Footba	7-9	coed	159	300	syn																														
	10-11	coed	159	300	syn																														
	12-13	coed	159	300	syn																														
	13	coed	159	300	syn																														
Subtotal football/rugby						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak week field capacities by size - scenario 1 w/weekday practices and weekend games

April-May/Sept-November

Site	Lights	Multiuse	Width dimensions		Length dimensions		Surface materials (synthetic/grass/sand)	Monday-Friday practices only				Saturday games				Sunday games		Peak week					
			Starting time	Ending time	1st slot-practice	2nd slot - practice		Number practices/week	Numbr games/week	Starting time	Ending time	Game slot	Nmbr games	Starting time	Ending time	Game slot	Nmbr games	Prtc	Games				
								pm	pm			am	pm										
Uplands ES #1	LOSD	no	no	90	120	grass		4:00	7:00	1.0	1.0	15	0	8:30	7:00	1.5	7	11:30	7:00	1.5	5	15	12
Palisades ES #2	LOSD	no	no	120	180	grass		4:00	7:00	1.0	1.0	15	0	8:30	7:00	1.5	7	11:30	7:00	1.5	5	15	12
Forest Hills ES	LOSD	no	no	100	225	grass		4:00	7:00	1.0	1.0	15	0	8:30	7:00	1.5	7	11:30	7:00	1.5	5	15	12
Lake Grove ES	LOSD	no	no	100	210	grass		4:00	7:00	1.0	1.0	15	0	8:30	7:00	1.5	7	11:30	7:00	1.5	5	15	12
Uplands ES #2	LOSD	no	no	100	180	grass		4:00	7:00	1.0	1.0	15	0	8:30	7:00	1.5	7	11:30	7:00	1.5	5	15	12
										75	0					35				25	75	60	
Lake Oswego JH #1	LOSD	no	yes	150	210	grass		4:00	10:00	1.5	1.5	20	0	8:00	10:00	2.0	7	12:00	10:00	2.0	5	20	12
Lake Oswego JH #2	LOSD	no	yes	150	210	grass		4:00	10:00	1.5	1.5	20	0	8:00	10:00	2.0	7	12:00	10:00	2.0	5	20	12
Waluga JH #1	LOSD	no	yes	150	225	grass		4:00	10:00	1.5	1.5	20	0	8:00	10:00	2.0	7	12:00	10:00	2.0	5	20	12
										60	0					21				15	60	36	
Pilkington Park	Parks	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Bryant ES #1	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Bryant ES #2*	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Hallinan ES	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Oak Creek ES	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Palisades ES #1	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Rivergrove ES	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
Westridge ES	LOSD	no	no	210	330	grass		5:00	7:00	2.0	0.0	5	0	9:00	7:00	2.5	4	11:30	7:00	2.5	3	5	7
										40	0					32				24	40	56	
George Rogers Park	Parks	no	yes	210	330	grass		4:00	10:00	2.0	2.0	15	0	9:30	10:00	2.5	5	12:00	10:00	2.5	4	15	9
Westlake Park	Parks	no	yes	210	330	grass		4:00	10:00	2.0	2.0	15	0	9:30	10:00	2.5	5	12:00	10:00	2.5	4	15	9
Waluga JH #2	LOSD	no	yes	210	330	grass		4:00	10:00	2.0	2.0	15	0	9:30	10:00	2.5	5	12:00	10:00	2.5	4	15	9
										45	0					15				12	45	27	
Lake Oswego HS	LOSD	no	yes	210	330	syneth		3:00	10:00	3.0	4.0	8	2	9:00	9:00	3.0	4	12:00	9:00	3.0	3	8	9
Lakeridge HS	LOSD	no	yes	210	330	syneth		3:00	10:00	3.0	4.0	8	2	9:00	9:00	3.0	4	12:00	9:00	3.0	3	8	9
										16	4					8				6	16	18	
Portland CC	OR	no																				0	0
Marylhurst College	Prvt																					0	0
Lewis & Clark	Prvt	no																				0	0
										0	0					0					0	0	
TOTAL										236	4					111				82	236	197	

* Incudes 1999 bond improvements.

Soccer/football/lacrosse

Field condition/capabilities/utilizations

		<u>Existing conditions</u>		Width dimensions		Length dimensions		Surface materials (synthetic/grass/sand)		Nbr Qty Flds
		Lights						Quality		
		Multiuse								
George Rogers Park	Parks	no	yes	210	330	grass	good	1		
Pilkington Park	Parks	no	no	210	330	grass	good	1		
Westlake Park	Parks	no	yes	210	330	grass	good	1		
Subtotal Parks										3
Bryant ES #1	LOSD	no	no	210	330	grass	good	1		
Bryant ES #2	LOSD	no	no	210	330	grass	good	1		w/1999 bond improvements
Forest Hills ES	LOSD	no	no	150	225	grass	poor	1		
Hallinan ES	LOSD	no	no	210	330	grass	good	1		
Lake Grove ES	LOSD	no	no	150	310	grass	poor	1		
Lake Oswego HS	LOSD	no	yes	210	330	syneth	good	1		
Lake Oswego JH #1	LOSD	no	yes	150	210	grass	good	1		
Lake Oswego JH #2	LOSD	no	yes	150	210	grass	good	1		
Lakeridge HS	LOSD	no	yes	210	330	syneth	good	1		
Oak Creek ES	LOSD	no	no	210	330	grass	average	1		
Palisades ES #1	LOSD	no	no	210	330	grass	poor	1		
Palisades ES #2	LOSD	no	no	120	180	grass	poor	1		
Rivergrove ES	LOSD	no	no	210	330	grass	average	1		
Uplands ES #1	LOSD	no	no	90	120	grass	good	1		
Uplands ES #2	LOSD	no	no	150	180	grass	good	1		
Waluga JH #1	LOSD	no	yes	150	225	grass	good	1		
Waluga JH #2	LOSD	no	yes	210	330	grass	good	1		
Westridge ES	LOSD	no	no	210	330	grass	good	1		
Subtotal BSD										18
Portland CC	OR	no								
Maryhurst College	Prvt									
Lewis & Clark	Prvt	no								
Subtotal others										0
TOTAL										21

Good - artificial turf, grass or all-weather surface fields in good condition with few bare spots or weeds. Goal posts or backstops are in good contioin. May include site amenities such as lights, restrooms, storage, dug-outs, or large bleachers. Fields are usually irrigated and on-going maintenance is evident.

Average - soil, and/or rubber mix fields or grass fields with uneven surface or with some ruts, stones, etc.

May show evidence of poor drainage. May include additional amenities such as bleachers or water fountains.

May or may not be irrigated. Maintenance is limited and some renovation is needed to maximize capacity.

Poor - field has cinder or cintrex surface or contains numerous ruts, rocks, and/or weeds. Field is not irrigated.

Amenities limited to backstops or goal posts with may be too small and/or in poor condition. Fields may have severe drainage problems, uneven surfaces or slope in one direction. Complete renovation is needed. Receives minimum maintenance under present conditions.

Soccer/football/rugby

Existing field scheduling by size

	Age	Sex	Width	Length	Surface	Monday-Friday			Saturday			Sunday			Total/ week
	Starting time					Ending time	Hours per day	Starting time	Ending time	Hours	Starting time	Ending time	Hours		
Lake Oswego Soccer Ca	3.5-6	coed	na	na											0
Skyhawks Youth Camp	7-14	coed	na	na											0
School of Champions	7-15														0
Chichina Soccer	7-15														0
Willamette Soccer	7-15														0
Willamette Soccer	7-15														0
Willamette Soccer	7-15														0
Willamette Soccer	7-15														0
Subtotal youth camps															
Soccer Rec League	5-6	coed	50	150	grs							9:00	4:00	7.0	7
	7-8	coed	120	150	grs							9:00	4:00	7.0	7
	9-10	coed	159	300	grs							9:00	4:00	7.0	7
	11-12	coed	159	300	grs							9:00	4:00	7.0	7
	13-14	coed	159	300	grs							9:00	4:00	7.0	7
Soccer Classic League	5-6	coed	50	150	grs							9:00	4:00	7.0	7
	7-8	coed	120	150	grs							9:00	4:00	7.0	7
	9-10	coed	159	300	grs							9:00	4:00	7.0	7
	11-12	coed	159	300	grs							9:00	4:00	7.0	7
	13-14	coed	159	300	grs							9:00	4:00	7.0	7
Subtotal youth leagues															
Lake Oswego HS Soccer	15-18	girls	195	330		3:00	10:00	7.0							7
Lake Oswego HS Soccer	15-18	boys	195	330		3:00	10:00	7.0							7
Lake Oswego HS Lacros	14-18	girls				3:00	10:00	7.0							7
Lake Oswego HS Lacros	14-18	boys				3:00	10:00	7.0							7
Lake Oswego HS Footba	15-18	boys	159	300	syn	3:00	10:00	7.0							7
Lakeridge HS Soccer	15-18	girls	195	330		3:00	10:00	7.0							7
Lakeridge HS Soccer	15-18	boys	195	330		3:00	10:00	7.0							7
Lakeridge HS Lacrosse	14-18	girls				3:00	10:00	7.0							7
Lakeridge HS Lacrosse	14-18	boys				3:00	10:00	7.0							7
Lakeridge HS Football	15-18	boys	159	300	syn	3:00	10:00	7.0							7
Westside CHS Soccer	15-18	girls	195	330		3:00	10:00	7.0							7
Westside CHS Soccer	15-18	boys	195	330		3:00	10:00	7.0							7
Subtotal school teams															
City League Adult-spring	>35	coed	180	330	allw							4:00	7:00	3.0	3
City League Adult-fall	>35	coed	180	330	allw							4:00	7:00	3.0	3
City League Coed-spring	>17	coed	180	360	allw	6:30	9:30	3.0							3
City League Coed-fall	>17	coed	180	360	allw	6:30	9:30	3.0							3
Subtotal adult leagues															
Lake Oswego Youth Foo	7-9	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	10-11	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	12-13	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	13	coed	159	300	turf	4:30	8:00	3.5	9:00	10:00	13.0				17
Lakeridge Youth Football	7-9	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	10-11	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	12-13	coed	159	300	syn	4:30	8:00	3.5	9:00	10:00	13.0				17
	13	coed	159	300	turf	4:30	8:00	3.5	9:00	10:00	13.0				17

* Game times on Friday.

Proposed level-of-service (PLOS) additions - by site

5 July 2001

prty	site	activity	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funds share	LO funding required	
	Adult Community Center	1 a picnic tables w/o shelter	table	10	\$7,609	\$76,090	100%	\$76,090	
		1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		6 b park trail-dirt	dirt	0.8	\$19,661	\$15,729	100%	\$15,729	
		12 b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$170,413
	Bryant Woods Park-Canal Acr	6 b park trail-dirt	dirt	0.8	\$19,661	\$15,729	100%	\$15,729	
		9 c bicycle trailheads	bkng sp	1	included	\$0	100%	\$0	\$15,729
	Cooks Butte Park	1 a picnic tables w/o shelter	table	6	\$7,609	\$45,654	100%	\$45,654	\$45,654
	Cornell Park	1 a picnic tables w/o shelter	table	1	\$7,609	\$7,609	100%	\$7,609	
		12 b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	\$70,509
	Forest Hills ES #1, #2	22 d ballfield-250+dirt/unlighte	ppgrade	2	\$87,500	\$175,000	100%	\$175,000	\$175,000
	Freepons Park	40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$104,349
	George Rogers Park	1 a picnic tables w/o shelter	table	10	\$7,609	\$76,090	100%	\$76,090	
		6 a park trail-asphalt	mile	0.8	\$133,216	\$106,573	100%	\$106,573	
		17 c volleyball-sand	court	2	\$5,000	\$10,000	100%	\$10,000	\$192,663
	Hallinan Park	1 a picnic tables w/o shelter	table	2	\$7,609	\$15,218	100%	\$15,218	
		12 b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	\$78,118
	Iron Mountain Park	9 c bicycle trailheads	bkng sp	1	included	\$0	100%	\$0	
		11 a equestrian trail	mile	0.8	\$5,517	\$4,414	100%	\$4,414	
		40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$108,763
	Lake Grove ES	20 b soccer-youth	ppgrade	1	\$70,711	\$70,711	100%	\$70,711	\$70,711
	Lake Grove Swim Park	1 b picnic shelters-group	shelter	2	\$10,694	\$21,388	100%	\$21,388	\$21,388
	Lake Oswego Cmty Cntr	29 arts/crafts room	sq ft	4,000	\$270	\$1,080,000	100%	\$1,080,000	
		30 class/meeting room	sq ft	2,000	\$250	\$500,000	100%	\$500,000	
		31 auditorium	sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	
		32 kitchen facilities	sq ft	800	\$400	\$320,000	100%	\$320,000	
		34 a day care/nursery	sq ft	1,200	\$250	\$300,000	100%	\$300,000	
		34 b cmty teen	sq ft	2,000	\$250	\$500,000	100%	\$500,000	\$4,300,000
	Lake Oswego HS - addn	25 a swimming pool-indoor	sq ft	2,000	\$400	\$800,000	100%	\$800,000	
	Lake Oswego HS - upgrade	25 a swimming pool-indoor	ppgrade	0	\$400	\$0	100%	\$600,000	
	Lake Oswego HS - use agreeem	26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	\$1,400,000
	Lakeridge HS - use agreemen	26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	
	Lakeridge HS #1,#2 - lights	22 a ballfield-300 grss/lighted	ppgrade	0	\$403,612	\$403,612	100%	\$403,612	\$403,612
	Lake Oswego JH	14 a skateboard court	court	1	\$100,000	\$100,000	100%	\$100,000	\$100,000
	Lake Oswego Rctn Cntr	5 rctn centers/pools	acres	2.0	\$400,000	\$800,000	100%	\$800,000	
		26 indoor gymnasium	sq ft	10,000	\$300	\$3,000,000	100%	\$3,000,000	
		27 physical conditioning	sq ft	4,000	\$250	\$1,000,000	100%	\$1,000,000	\$4,800,000
	Lake Oswego Swim Center	25 a swimming pool-indoor	sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	\$1,600,000
	Lake Oswego Swim Park	1 b picnic shelters-group	shelter	2	\$10,694	\$21,388	100%	\$21,388	\$21,388
	Luscher Farm	1 a picnic tables w/o shelter	table	20	\$7,609	\$152,180	100%	\$152,180	
		1 b picnic shelters-group	shelter	2	\$10,694	\$21,388	100%	\$21,388	
		9 c bicycle trailheads	bkng sp	2	included	\$0	100%	\$0	
		11 a equestrian trail	mile	1.0	\$5,517	\$5,517	100%	\$5,517	
		11 b equestrian trailhead	bkng sp	1	included	\$0	100%	\$0	
		12 b playground-uncovered	plygrnd	3	\$62,900	\$188,700	100%	\$188,700	
		17 c volleyball-sand	court	2	\$5,000	\$10,000	100%	\$10,000	
		36 a nature center	sq ft	5,000	\$150	\$750,000	100%	\$750,000	
		36 b museum	sq ft	2,400	\$300	\$720,000	100%	\$720,000	
		39 amphitheater	sq ft	3,000	\$130	\$390,000	100%	\$390,000	
		40 a parks admin offices	sq ft	1,200	\$250	\$300,000	100%	\$300,000	
		40 b parks maintenance fclties	sq ft	2,600	\$120	\$312,000	100%	\$312,000	
		40 e restrooms-permanent	fixture	24	\$17,392	\$417,396	100%	\$417,396	
		6 b park trail-dirt	dirt	3.3	\$19,661	\$64,881	100%	\$64,881	
	Luscher Farm-Cooks Butte	11 a equestrian trail	mile	1.6	\$5,517	\$8,827	100%	\$8,827	
	Luscher Farm-River Run	9 a bicycling trail-asphalt	mile	2.5	\$116,588	\$291,470	100%	\$291,470	\$3,632,359
	Marylhurst - use agreement	20 a soccer-regulation	grss/lts	1	\$583,480	\$583,480	0%	\$0	
		22 a ballfield-300 grss/lighted	rs/lghts	1	\$403,612	\$403,612	0%	\$0	
		26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	\$0
	Millennium Park	6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	\$133,216
	Palisades ES #1, #2	22 d ballfield-250+dirt/unlighte	ppgrade	2	\$87,500	\$175,000	100%	\$175,000	\$175,000
	PCC - use agreement	20 a soccer-regulation	grss/lts	1	\$583,480	\$583,480	0%	\$0	
		22 a ballfield-300 grss/lighted	rs/lghts	1	\$403,612	\$403,612	0%	\$0	
		25 a swimming pool-indoor	sq ft	3,000	\$400	\$1,200,000	0%	\$0	
		26 indoor gymnasium	sq ft	0	\$300	\$0	0%	\$0	\$0
	Piikington Park	1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	

Proposed level-of-service (PLOS) additions - by site

5 July 2001

prty	site	activity	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funds share	LO funding required	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
		40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$120,043
	Red Fox Hills Park #1	1 a picnic tables w/o shelter	table	1	\$7,609	\$7,609	100%	\$7,609	
	Red Fox Hills Park #3	1 a picnic tables w/o shelter	table	1	\$7,609	\$7,609	100%	\$7,609	\$15,218
	River Run Park	1 a picnic tables w/o shelter	table	4	\$7,609	\$30,436	100%	\$30,436	
		3 b boat launch-cartop	each	1	\$5,000	\$5,000	100%	\$5,000	
		12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	
		40 e restrooms-permanent	fixture	6	\$17,392	\$104,349	100%	\$104,349	\$202,685
	Riverfront Trail	9 a bicycling trail-asphalt	mile	1.5	\$116,588	\$174,882	100%	\$174,882	\$174,882
	Roehr Park Addn	1 a picnic tables w/o shelter	table	12	\$7,609	\$91,308	100%	\$91,308	
		1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		2 resource activities	acres	10.0	\$75,000	\$750,000	100%	\$750,000	
		3 linear trails	acres	2.0	\$75,000	\$150,000	100%	\$150,000	
	Roehr Park Addn	3 a boat launch ramps	each	2	\$25,000	\$50,000	100%	\$50,000	
		3 b boat launch-cartop	each	1	\$5,000	\$5,000	100%	\$5,000	
		3 c floating platforms	sq ft	2000	\$32	\$64,000	100%	\$64,000	
		3 d docks/piers	sq ft	1000	\$50	\$50,000	100%	\$50,000	
		3 e boat moorage slips	each	4	\$10,000	\$40,000	100%	\$40,000	
		6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	
		9 c bicycle trailheads	pkgng sp	1	included	\$0	100%	\$0	
		12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
		40 e restrooms-permanent	fixture	8	\$17,392	\$139,132	100%	\$139,132	\$1,551,250
	Rossman Park	17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$5,000
	Site to be determined	20 a soccer-regulation	grss/fts	5	\$583,480	\$2,917,400	100%	\$2,917,400	
		22 a ballfield-300 grss/lighted	rs/lghts	1	\$403,612	\$403,612	100%	\$403,612	
		22 c ballfield-250+dir/lighted	field	1	\$250,000	\$250,000	100%	\$250,000	\$3,571,012
	South Shore Natural Area	1 a picnic tables w/o shelter	table	2	\$7,609	\$15,218	100%	\$15,218	\$15,218
	Southern Pacific Rail Trail	9 a bicycling trail-asphalt	mile	5.0	\$116,588	\$582,940	100%	\$582,940	\$582,940
	Southwood Park	1 a picnic tables w/o shelter	table	4	\$7,609	\$30,436	100%	\$30,436	
	Southwood Park	12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	\$93,336
	Springbrook Park	1 a picnic tables w/o shelter	table	10	\$7,609	\$76,090	100%	\$76,090	
		1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		6 b park trail-dirt	dirt	2.3	\$19,661	\$45,220	100%	\$45,220	
		12 b playground-uncovered	plygrmd	1	\$62,900	\$62,900	100%	\$62,900	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
		40 e restrooms-permanent	fixture	8	\$17,392	\$139,132	100%	\$139,132	\$339,036
	Waluga JH	6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	
		14 a skateboard court	court	1	\$100,000	\$100,000	100%	\$100,000	\$233,216
	Waluga Park	6 a park trail-asphalt	mile	1.0	\$133,216	\$133,216	100%	\$133,216	
	West Waluga Park	17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	
	East Waluga Park	17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$143,216
	Westlake Park	1 b picnic shelters-group	shelter	1	\$10,694	\$10,694	100%	\$10,694	
		6 a park trail-asphalt	mile	0.8	\$133,216	\$106,573	100%	\$106,573	
		17 c volleyball-sand	court	1	\$5,000	\$5,000	100%	\$5,000	\$122,267
	Willamette Shore Trolley	6 special use facilities	acres	2.0	\$200,000	\$400,000	100%	\$400,000	
		36 b museum	sq ft	5,000	\$300	\$1,500,000	100%	\$1,500,000	\$1,900,000
	Hallinan Loop	7 a day hiking trail-asphalt	mile	2.3	\$164,623	\$370,402	100%	\$370,402	
	Luscher Farm-Cooks Butte	7 a day hiking trail-asphalt	mile	3.0	\$164,623	\$493,869	100%	\$493,869	
	Kerr Parkway-Kruse Way Loop	7 a day hiking trail-asphalt	mile	2.8	\$164,623	\$452,713	100%	\$452,713	
	Lakewood Bay Loop	7 a day hiking trail-asphalt	mile	1.0	\$164,623	\$164,623	100%	\$164,623	
	Mountain Park Loop	7 a day hiking trail-asphalt	mile	5.5	\$164,623	\$905,427	100%	\$905,427	
	Old Town Loop	7 a day hiking trail-asphalt	mile	0.5	\$164,623	\$82,312	100%	\$82,312	
	Pilkington Loop	7 a day hiking trail-asphalt	mile	4.8	\$164,623	\$781,959	100%	\$781,959	
	Riverfront Trail	7 a day hiking trail-asphalt	mile	2.5	\$164,623	\$411,558	100%	\$411,558	\$3,662,862
	A Avenue-3rd to 10th	7 a streetscape	mile	0.4	\$1,000,000	\$400,000	100%	\$400,000	
	State St-Terwilger to McVey	7 a streetscape	mile	1.0	\$1,000,000	\$1,000,000	100%	\$1,000,000	\$1,400,000
	10th Street	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Boones Ferry Rd-Condo Cour	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Jefferson Parkway-Krause Dr	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Kerr Parkway-Stephenson St	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Lower Boones Ferry-SPRR	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	McVey Ave	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Stafford Rd-Rosemont Rd	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	
	Willamette Highway-Arbor Rd	7 a gateways	each	1	\$50,000	\$50,000	100%	\$50,000	\$400,000

Proposed level-of-service (PLOS) additions - by site

5 July 2001

prty	site	activity	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funds share	LO funding required	
	Boones Ferry Rd-Kruse Way	7 a gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	
	Country Club Rd-A Avenue	7 a gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	
	Country Club Rd-Boones Ferry	7 a gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	\$225,000
	10th St	10 a bicycling shoulder-market	mile	0.6	\$158,616	\$95,170	100%	\$95,170	
	Carman Drive-Fosberg Rd	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	Childs Rd	10 a bicycling shoulder-market	mile	3.0	\$158,616	\$475,848	100%	\$475,848	
	Haines Rd-PCC	10 a bicycling shoulder-market	mile	0.7	\$158,616	\$111,031	100%	\$111,031	
	Kruse Oaks-62nd Ave-Lessor	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	Lesser Rd-Capitol Highway	10 a bicycling shoulder-market	mile	0.4	\$158,616	\$63,446	100%	\$63,446	
	McEwan Rd-65th Ave	10 a bicycling shoulder-market	mile	0.5	\$158,616	\$79,308	100%	\$79,308	
	McEwan Rd-Lower Boones Ferry	10 a bicycling shoulder-market	mile	0.5	\$158,616	\$79,308	100%	\$79,308	
	Meadows Rd	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	North Shore Rd-Middle Crest	10 a bicycling shoulder-market	mile	1.0	\$158,616	\$158,616	100%	\$158,616	
	G Avenue	10 a bicycling shoulder-market	mile	0.6	\$158,616	\$95,170	100%	\$95,170	
	Pilkington Rd	10 a bicycling shoulder-market	mile	1.3	\$158,616	\$206,201	100%	\$206,201	\$1,839,946
Total impact for land and facilities				59,499		\$36,790,182		\$34,215,998	\$34,215,998

Properties with park, recreation, and open space uses

Local/regional park lands in acres	Conservancy parks - wildlife/greenway/agriculture Resource activity parks - swim/boat/fish/camp Linear parks/trails/facilities Recreational parks - picnic/playgrounds/fields/courts Community centers/pools/facilities Special use facilities - amphitheater/streetscape Support facilities/yards/buildings							total
1 Freepons Park	2.9	-	-	3.1	-	-	-	6.0
2 George Rogers Park	11.1	6.0	1.0	6.0	-	-	-	24.1
3 Greentree Park	-	-	-	0.4	-	-	-	0.4
4 Millennium Park	-	-	-	-	-	2.7	-	2.7
5 Pilkington Park	4.0	-	-	1.0	-	-	-	5.0
6 Red Fox Hills #1	-	-	-	0.5	-	-	-	0.5
7 Red Fox Hills #3	-	-	-	0.2	-	-	-	0.2
8 Roehr Park	2.2	4.0	1.0	-	-	-	-	7.2
9 Rossman Park	-	-	-	0.5	-	-	-	0.5
10 East/West Waluga Park	25.4	4.0	2.0	15.0	-	-	-	46.4
11 Westlake Park	-	-	-	13.4	-	-	-	13.4
12 Westridge Park	-	-	-	1.7	-	-	-	1.7
13 Cooks Butte Park	43.0	-	-	-	-	-	-	43.0
14 Glenmorrie Park	2.7	-	-	-	-	-	-	2.7
15 Iron Mountain Park	3.4	-	-	1.0	-	-	-	4.4
16 Luscher Farm	115.0	-	-	-	-	5.0	-	120.0
17 River Run Park	8.8	2.0	-	-	-	-	-	10.8
18 Southwood Park	2.5	-	-	-	-	-	-	2.5
19 Bryant Woods	15.7	2.0	2.0	-	-	-	-	19.7
20 Springbrook	50.3	2.0	-	-	-	-	-	52.3
21 Woodmont	6.7	-	-	-	-	-	-	6.7
22 Canal Acres	31.1	-	-	-	-	-	-	31.1
23 Ellen Bergis	0.2	-	-	-	-	-	-	0.2
24 Iron Mountain Park	38.7	-	-	-	-	-	-	38.7
25 Lamont Springs	3.8	-	-	-	-	-	-	3.8
26 Adult Community Ctr	-	-	-	-	2.0	-	-	2.0
27 Indoor Tennis Cntr	-	-	-	-	2.0	-	-	2.0
28 Golf Course	-	-	-	-	-	38.6	-	38.6
29 Southshore Tennis	-	-	-	1.3	-	-	-	1.3
30 Lake Oswego Swim Park	-	0.3	-	-	-	-	-	0.3
31 Water Sports	-	na	-	-	-	-	-	0.0
32 Willamette Trolley	-	-	24.2	-	-	-	-	24.2
33 City Hall	-	-	-	-	-	-	2.0	2.0
34 Library	-	-	-	-	-	-	2.0	2.0
35 Skateboard/Maintenance	-	-	-	-	-	-	1.0	1.0
Lake Oswego	367.5	20.3	30.2	44.1	4.0	46.3	5.0	517.4
1 City-owned other	157.7	-	-	-	-	-	-	157.7
Lake Oswego OS	157.7	0.0	0.0	0.0	0.0	0.0	0.0	157.7
1 Bryant ES	-	-	-	2.4	-	-	-	2.4
2 Forest Hills ES	-	-	-	2.5	-	-	-	2.5
3 Hallinan ES	-	-	-	2.0	-	-	-	2.0
4 Lake Grove ES	-	-	-	2.0	-	-	-	2.0
5 Oak Creek ES	-	-	-	2.8	-	-	-	2.8
6 Palisades ES	-	-	-	3.0	-	-	-	3.0
7 River Grove ES	-	-	-	2.8	-	-	-	2.8
8 Uplands ES	-	-	-	2.0	-	-	-	2.0
9 Westridge S	-	-	-	2.0	-	-	-	2.0

Properties with park, recreation, and open space uses

Local/regional park lands in acres	Conservancy parks - wildlife/greenway/agriculture		Resource activity parks - swim/boat/fish/camp		Linear parks/trails/facilities		Recreational parks - picnic/playgrounds/fields/courts		Community centers/pools/facilities		Special use facilities - amphitheater/streetscape		Support facilities/yards/buildings		total
10 Lake Oswego JH	-	-	-	-	6.0	-	-	-	-	-	-	-	-	6.0	
11 Waluga JH	-	-	-	-	9.0	-	-	-	-	-	-	-	-	9.0	
12 Lake Oswego HS	-	-	-	-	7.0	-	-	-	-	-	-	-	-	7.0	
13 Lakeridge HS	-	-	-	-	12.0	-	-	-	-	-	-	-	-	12.0	
14 Lake Grove Swim Park	-	4.0	-	-	-	-	-	-	-	-	-	-	-	4.0	
14 Lake Oswego School District	0.0	4.0	0.0	0.0	55.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.5	
1 Tryon Creek Natural Area	600.0	40.0	-	-	-	-	-	5.0	-	-	-	-	-	645.0	
2 Portland Community College	5.0	-	-	-	10.0	5.0	-	-	-	-	-	-	-	20.0	
3 National Guard Armory	-	-	-	-	-	2.0	-	-	-	-	-	-	-	2.0	
Other publicly accessible	605.0	40.0	0.0	0.0	10.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	667.0	
1 Lakewood Center Arts	-	-	-	-	-	8.0	-	-	-	-	-	-	-	8.0	
2 Marylhurst College	40.0	-	-	-	20.0	20.0	-	-	-	-	-	-	-	80.0	
3 P&WVRR	-	-	65.9	-	-	-	-	-	-	-	-	-	-	65.9	
4 Lake Corporation	400.0	4.0	-	-	-	-	-	-	-	-	-	-	-	404.0	
5 Lake Oswego Hunt Club	12.1	-	-	-	-	-	-	7.0	-	-	-	-	-	19.1	
6 Oswego Lake Country Club	-	-	-	-	-	-	-	121.0	-	-	-	-	-	121.0 *	
7 Mountain Park HOA	86.6	-	10.0	-	-	-	-	-	-	-	-	-	-	96.6 *	
8 Bryant Woods Ngh Pool	-	-	-	-	-	1.0	-	-	-	-	-	-	-	1.0 *	
9 Greentree Swimming Assn	-	-	-	-	-	1.0	-	-	-	-	-	-	-	1.0 *	
10 Mountain Park Racquet Club	-	-	-	-	-	1.0	-	-	-	-	-	-	-	1.0 *	
11 Mountain Park Rctn Ctr	-	-	-	-	-	2.7	-	-	-	-	-	-	-	2.7 *	
12 Mount Sylvania Park	-	-	-	0.5	-	-	-	-	-	-	-	-	-	0.5 *	
13 Rivers Edge Athletic Club	-	-	-	-	-	1.0	-	-	-	-	-	-	-	1.0 *	
14 St Vincent Health	-	-	-	-	-	0.5	-	-	-	-	-	-	-	0.5 *	
15 Trails End Fitness	-	-	-	-	-	0.2	-	-	-	-	-	-	-	0.2 *	
16 Oswego Heritage House	-	-	-	-	-	-	-	1.0	-	-	-	-	-	1.0 *	
17 Oswego Pioneer Cemetery	-	-	-	-	-	-	-	5.0	-	-	-	-	-	5.0 *	
18 Brain Clough/Harbour Pt	5.2	-	-	-	-	-	-	-	-	-	-	-	-	5.2	
19 Other HOA prvt	126.2	-	-	-	-	-	-	-	-	-	-	-	-	126.2	
Private- fee and/or mbrshp	670.1	4.0	75.9	20.5	35.4	134.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	939.9	
TOTAL	1800.3	68.3	106.1	130.1	46.4	185.3	5.0	2341.5	0.0	0.0	0.0	0.0	0.0	2341.5	

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
1	resource conservation acres		\$50,000	\$0	100%	\$0	
2	resource activities acres	10.0	\$75,000	\$750,000	100%	\$750,000	Roehr Park Addn
3	linear trails acres	2.0	\$75,000	\$150,000	100%	\$150,000	Roehr Park Addn
4	athletic flds/plygrnds acres		\$200,000	\$0	100%	\$0	
5	rcn centers/pools acres	2.0	\$400,000	\$800,000	100%	\$800,000	Lake Oswego Rctn Cntr
6	special use facilities acres	2.0	\$200,000	\$400,000	100%	\$400,000	Willamette Shore Trolley
7	support facilities acres		\$75,000	\$0	100%	\$0	
Subtotal for land impact		16.0		\$2,100,000		\$2,100,000	

Facilities

1	a picnic tables w/o shelter	10	\$7,609	\$76,090	100%	\$76,090	George Rogers Park
		12	\$7,609	\$91,308	100%	\$91,308	Roehr Park Addn
		2	\$7,609	\$15,218	100%	\$15,218	Hallinan Park
		1	\$7,609	\$7,609	100%	\$7,609	Cornell Park
		2	\$7,609	\$15,218	100%	\$15,218	South Shore Natural Area
		20	\$7,609	\$152,180	100%	\$152,180	Luscher Farm
		6	\$7,609	\$45,654	100%	\$45,654	Cooks Butte Park
		4	\$7,609	\$30,436	100%	\$30,436	River Run Park
		4	\$7,609	\$30,436	100%	\$30,436	Southwood Park
		10	\$7,609	\$76,090	100%	\$76,090	Springbrook Park
		1	\$7,609	\$7,609	100%	\$7,609	Red Fox Hills Park #1
		1	\$7,609	\$7,609	100%	\$7,609	Red Fox Hills Park #3
		10	\$7,609	\$76,090	100%	\$76,090	Adult Community Center
	b picnic shelters-group shelter	2	\$10,694	\$21,388	100%	\$21,388	Lake Oswego Swim Park
		2	\$10,694	\$21,388	100%	\$21,388	Lake Grove Swim Park
		1	\$10,694	\$10,694	100%	\$10,694	Roehr Park Addn
		2	\$10,694	\$21,388	100%	\$21,388	Luscher Farm
		1	\$10,694	\$10,694	100%	\$10,694	Pilkington Park
		1	\$10,694	\$10,694	100%	\$10,694	Westlake Park
		1	\$10,694	\$10,694	100%	\$10,694	Springbrook Park
		1	\$10,694	\$10,694	100%	\$10,694	Adult Community Center
2	a swimming beach	sq ft	\$0	\$0	100%	\$0	
	b swimming beach	pkng sp	\$4,388	\$0	100%	\$0	
3	a boat launch ramps	each	\$25,000	\$50,000	100%	\$50,000	Chip plant - Roehr Park Addn
	b boat launch-cartop	each	\$5,000	\$5,000	100%	\$5,000	Chip plant - Roehr Park Addn
		1	\$5,000	\$5,000	100%	\$5,000	River Run Park
	c floating platforms	sq ft	2000 \$32	\$64,000	100%	\$64,000	Chip plant - Roehr Park Addn
	d docks/piers	sq ft	1000 \$50	\$50,000	100%	\$50,000	Chip plant - Roehr Park Addn
	e boat moorage slips	each	4 \$10,000	\$40,000	100%	\$40,000	Chip plant - Roehr Park Addn
4	power boat - launch	pkng sp	\$4,241	\$0	100%	\$0	
5	a tent camping	cmpsite	\$30,935	\$0	100%	\$0	
	b vehicle camping	cmpsite	\$30,454	\$0	100%	\$0	
6	a park trail-asphalt	mile	0.8 \$133,216	\$106,573	100%	\$106,573	George Rogers Park
		1.0	\$133,216	\$133,216	100%	\$133,216	Roehr Park Addn
		1.0	\$133,216	\$133,216	100%	\$133,216	Millennium Park
		0.8	\$133,216	\$106,573	100%	\$106,573	Westlake Park
		1.0	\$133,216	\$133,216	100%	\$133,216	Waluga Park
		1.0	\$133,216	\$133,216	100%	\$133,216	Waluga JH
	b park trail-dirt	dirt	0.8 \$19,661	\$15,729	100%	\$15,729	Adult Community Center
		2.3	\$19,661	\$45,220	100%	\$45,220	Springbrook Park
		0.8	\$19,661	\$15,729	100%	\$15,729	Bryant Woods Park-Canal Acr
		3.3	\$19,661	\$64,881	100%	\$64,881	Luscher Farm-Cooks Butte
7	a day hiking trail-asph	mile	2.5 \$164,623	\$411,558	100%	\$411,558	Riverfront Trail
		1.0	\$164,623	\$164,623	100%	\$164,623	Lakewood Bay Loop
		0.5	\$164,623	\$82,312	100%	\$82,312	Old Town Loop
		5.5	\$164,623	\$905,427	100%	\$905,427	Mountain Park Loop
		2.8	\$164,623	\$452,713	100%	\$452,713	Kerr Parkway-Kruse Way Loop
		4.8	\$164,623	\$781,959	100%	\$781,959	Pilkington Loop
		3.0	\$164,623	\$493,869	100%	\$493,869	Luscher Farm-Cooks Butte
		2.3	\$164,623	\$370,402	100%	\$370,402	Hallinan Loop

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
streetscape	mile	0.4	\$1,000,000	\$400,000	100%	\$400,000	A Avenue-3rd to 10th
		1.0	\$1,000,000	\$1,000,000	100%	\$1,000,000	State St-Terwilger to McVey
gateways	each	1	\$50,000	\$50,000	100%	\$50,000	10th Street
		1	\$50,000	\$50,000	100%	\$50,000	McVey Ave
		1	\$50,000	\$50,000	100%	\$50,000	Boones Ferry Rd-Condo Court
		1	\$50,000	\$50,000	100%	\$50,000	Kerr Parkway-Stephenson St
		1	\$50,000	\$50,000	100%	\$50,000	Jefferson Parkway-Krause Dr
		1	\$50,000	\$50,000	100%	\$50,000	Lower Boones Ferry-SPRR
		1	\$50,000	\$50,000	100%	\$50,000	Stafford Rd-Rosemont Rd
		1	\$50,000	\$50,000	100%	\$50,000	Willamette Highway-Arbor Rd
gateway-crossroads	each	1	\$75,000	\$75,000	100%	\$75,000	Country Club Rd-A Avenue
		1	\$75,000	\$75,000	100%	\$75,000	Country Club Rd-Boones Ferry
		1	\$75,000	\$75,000	100%	\$75,000	Boones Ferry Rd-Kruse Way
b day hiking trail	mile-asp		\$199,160	\$0	100%	\$0	
	mile-dirt		\$19,661	\$0	100%	\$0	
	mile-rock		\$56,195	\$0	100%	\$0	
	mile-conc		\$250,000	\$0	100%	\$0	
c day hiking trailheads	pkng sp		included	\$0	100%	\$0	
8 a backpacking trail	mile		\$47,399	\$0	100%	\$0	
b backpacking trailheads	pkng sp		\$4,241	\$0	100%	\$0	
9 a bicycling trail-asphalt	mile	1.5	\$116,588	\$174,882	100%	\$174,882	Riverfront Trail
		5.0	\$116,588	\$582,940	100%	\$582,940	Southern Pacific Rail Trail
		2.5	\$116,588	\$291,470	100%	\$291,470	Luscher Farm-River Run
	mile-dirt		\$5,809	\$0	100%	\$0	
	mile-rock		\$58,294	\$0	100%	\$0	
c bicycle trailheads	pkng sp	1	included	\$0	100%	\$0	Roehr Park Addn
		1	included	\$0	100%	\$0	Iron Mountain Park
		1	included	\$0	100%	\$0	Bryant Woods Park-Canal Acr
		2	included	\$0	100%	\$0	Luscher Farm
10 a bicycling shoulder-rr	mile	1.0	\$158,616	\$158,616	100%	\$158,616	Kruse Oaks-62nd Ave-Lessor
		0.5	\$158,616	\$79,308	100%	\$79,308	McEwan Rd-Lower Boones Fe
		0.4	\$158,616	\$63,446	100%	\$63,446	Lesser Rd-Capitol Highway
		0.7	\$158,616	\$111,031	100%	\$111,031	Haines Rd-PCC
		0.6	\$158,616	\$95,170	100%	\$95,170	G Avenue
		1.0	\$158,616	\$158,616	100%	\$158,616	North Shore Rd-Middle Crest F
		1.0	\$158,616	\$158,616	100%	\$158,616	Meadows Rd
		3.0	\$158,616	\$475,848	100%	\$475,848	Childs Rd
		1.0	\$158,616	\$158,616	100%	\$158,616	Carman Drive-Fosberg Rd
		0.5	\$158,616	\$79,308	100%	\$79,308	McEwan Rd-65th Ave
		1.3	\$158,616	\$206,201	100%	\$206,201	Pilkington Rd
		0.6	\$158,616	\$95,170	100%	\$95,170	10th St
b bicycling in-lane	mile		\$17,258	\$0	100%	\$0	
c bicycling road-trailheads	pkng sp		included	\$0	100%	\$0	
11 a equestrian trail	mile	1.0	\$5,517	\$5,517	100%	\$5,517	Luscher Farm
		1.6	\$5,517	\$8,827	100%	\$8,827	Luscher Farm-Cooks Butte
		0.8	\$5,517	\$4,414	100%	\$4,414	Iron Mountain Park
b equestrian trailhead	pkng sp	1	included	\$0	100%	\$0	Luscher Farm
12 a playground-covered	plygrnd		\$100,000	\$0	100%	\$0	
b playground-uncovered	plygrnd	1	\$62,900	\$62,900	100%	\$62,900	Roehr Park Addn
		1	\$62,900	\$62,900	100%	\$62,900	Hallinan Park
		1	\$62,900	\$62,900	100%	\$62,900	Cornell Park
		3	\$62,900	\$188,700	100%	\$188,700	Luscher Farm
		1	\$62,900	\$62,900	100%	\$62,900	River Run Park
		1	\$62,900	\$62,900	100%	\$62,900	Southwood Park
		1	\$62,900	\$62,900	100%	\$62,900	Springbrook Park
		1	\$62,900	\$62,900	100%	\$62,900	Adult Community Center
13 play area-improved	acre		\$97,054	\$0	100%	\$0	
14 a skateboard court	court	1	\$100,000	\$100,000	100%	\$100,000	Lake Oswego JH
		1	\$100,000	\$100,000	100%	\$100,000	Waluga JH
15 handball-uncovered	court		\$19,723	\$0	100%	\$0	

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
16 a basketball-covered court		\$75,000	\$0	100%	\$0	
b basketball-uncovere court		\$53,383	\$0	100%	\$0	
17 a volleyball-covered court		\$50,000	\$0	100%	\$0	
b volleyball-uncoverec court		\$29,224	\$0	100%	\$0	
c volleyball-sand court		\$5,000	\$5,000	100%	\$5,000	West Waluga Park
	1	\$5,000	\$5,000	100%	\$5,000	Westlake Park
	2	\$5,000	\$10,000	100%	\$10,000	George Rogers Park
	1	\$5,000	\$5,000	100%	\$5,000	Rossman Park
	1	\$5,000	\$5,000	100%	\$5,000	East Waluga Park
	1	\$5,000	\$5,000	100%	\$5,000	Roehr Park Addn
	2	\$5,000	\$10,000	100%	\$10,000	Luscher Farm
	1	\$5,000	\$5,000	100%	\$5,000	Pilkington Park
	1	\$5,000	\$5,000	100%	\$5,000	Springbrook Park
	1	\$5,000	\$5,000	100%	\$5,000	Adult Community Center
18 a tennis-indoor court		\$150,000	\$0	100%	\$0	
b tennis-outdoor lighte court		\$95,320	\$0	100%	\$0	
c tennis-outdoor unligl court		\$52,481	\$0	100%	\$0	
19 a football-regulation field		\$226,436	\$0	100%	\$0	
b football-practice fielc field		\$100,000	\$0	100%	\$0	
20 a soccer-regulation fld-allwea		\$172,852	\$0	100%	\$0	
grss/lts	5	\$583,480	\$2,917,400	100%	\$2,917,400	Site to be determined
grss/lts	1	\$583,480	\$583,480	0%	\$0	PCC - use agreement
grss/lts	1	\$583,480	\$583,480	0%	\$0	Marylhurst - use agreement
b soccer-youth fld-allwea		\$141,422	\$0	100%	\$0	
upgrade	1	\$70,711	\$70,711	100%	\$70,711	Lake Grove ES
21 lacrosse-grass field		\$500,000	\$0	100%	\$0	
22 a ballfield-300 grss/lig fld grs/lgt	0	\$403,612	\$403,612	100%	\$403,612	Lakeridge HS #1,#2 - lights
	1	\$403,612	\$403,612	0%	\$0	PCC - use agreement
	1	\$403,612	\$403,612	0%	\$0	Marylhurst - use agreement
	1	\$403,612	\$403,612	100%	\$403,612	Site to be determined
b ballfield-250+grss/ur fld dirt		\$117,965	\$0	100%	\$0	
c ballfield-250+dirt/ligt field	1	\$250,000	\$250,000	100%	\$250,000	Site to be determined
d ballfield-250+dirt/unl field		\$175,000	\$0	100%	\$0	
upgrade	2	\$87,500	\$175,000	100%	\$175,000	Forest Hills ES #1, #2
upgrade	2	\$87,500	\$175,000	100%	\$175,000	Palisades ES #1, #2
e ballfield-nonregulatic field		\$100,000	\$0	100%	\$0	
f ballfield-200 grss field		\$203,449	\$0	100%	\$0	
g ballfield-200 dirt field		\$105,729	\$0	100%	\$0	
23 parcourse-10 stator stations		\$2,598	\$0	100%	\$0	
24 a jogging track-surfac miles		\$61,388	\$0	100%	\$0	
b jogging track-dirt miles		\$30,000	\$0	100%	\$0	
25 a swimming pool-indo sq ft	0	\$400	\$0	100%	\$600,000	Lake Oswego HS - upgrade
	2,000	\$400	\$800,000	100%	\$800,000	Lake Oswego HS - addn
	3,000	\$400	\$1,200,000	0%	\$0	PCC - use agreement
	4,000	\$400	\$1,600,000	100%	\$1,600,000	Lake Oswego Swim Center
b swimming pool-outd sq ft		\$200	\$0	100%	\$0	
26 indoor gymnasium sq ft	0	\$300	\$0	0%	\$0	Lake Oswego HS - use agreer
	0	\$300	\$0	0%	\$0	Lakeridge HS - use agreement
	0	\$300	\$0	0%	\$0	PCC - use agreement
	0	\$300	\$0	0%	\$0	Marylhurst - use agreement
	10,000	\$300	\$3,000,000	100%	\$3,000,000	Lake Oswego Rctn Cntr
27 physical conditioning sq ft	4,000	\$250	\$1,000,000	100%	\$1,000,000	Lake Oswego Rctn Cntr
28 rcqutbl/hndbl (1600 each/sf		\$320,000	\$0	100%	\$0	
29 arts/crafts room sq ft	4,000	\$270	\$1,080,000	100%	\$1,080,000	Lake Oswego Cmty Cntr
30 class/meeting room sq ft	2,000	\$250	\$500,000	100%	\$500,000	Lake Oswego Cmty Cntr
31 auditorium sq ft	4,000	\$400	\$1,600,000	100%	\$1,600,000	Lake Oswego Cmty Cntr
32 kitchen facilities sq ft	800	\$400	\$320,000	100%	\$320,000	Lake Oswego Cmty Cntr
33 dining facilities sq ft		\$200	\$0	100%	\$0	
34 a day care/nursery sq ft	1,200	\$250	\$300,000	100%	\$300,000	Lake Oswego Cmty Cntr
b cmty teen sq ft	2,000	\$250	\$500,000	100%	\$500,000	Lake Oswego Cmty Cntr

Proposed level-of-service (PLOS) additions - by activity

5 July 2001

	units	PLOS facility addtn	Facility cost /unit	PLOS funding required	LO funding share	LO funding required	Comments
35	a cmty cntr administra sq ft		\$350	\$0	100%	\$0	
	b cmty cntr administra sq ft		\$250	\$0	100%	\$0	
36	a nature center sq ft	5,000	\$150	\$750,000	100%	\$750,000	Luscher Farm
	b museum sq ft	2,400	\$300	\$720,000	100%	\$720,000	Luscher Farm
	b museum sq ft	5,000	\$300	\$1,500,000	100%	\$1,500,000	Willamette Shore Trolley
37	a golf-par 3/18 hole hole		\$111,111	\$0	100%	\$0	
	b golf-clubhouse sq ft		\$300	\$0	100%	\$0	
	c golf-maintenance sq ft		\$90	\$0	100%	\$0	
38	a gun range-outdoor range		\$20,000	\$0	100%	\$0	
	b archery range-outdo range		\$10,000	\$0	100%	\$0	
39	amphitheater sq ft	3,000	\$130	\$390,000	100%	\$390,000	Luscher Farm
40	a parks admin offices sq ft	1,200	\$250	\$300,000	100%	\$300,000	Luscher Farm
	b parks maintenance 1 sq ft	2,600	\$120	\$312,000	100%	\$312,000	Luscher Farm
	c park shop yard sq ft		\$30	\$0	100%	\$0	
	d parks caretaker each/sf		\$60	\$0	100%	\$0	
	e restrooms-permanei fixture	8	\$17,392	\$139,132	100%	\$139,132	Springbrook Park
		6	\$17,392	\$104,349	100%	\$104,349	Pilkington Park
		6	\$17,392	\$104,349	100%	\$104,349	Iron Mountain Park
		6	\$17,392	\$104,349	100%	\$104,349	River Run Park
		6	\$17,392	\$104,349	100%	\$104,349	Freepons Park
		24	\$17,392	\$417,396	100%	\$417,396	Luscher Farm
		8	\$17,392	\$139,132	100%	\$139,132	Roehr Park Addn
	f restrooms-temporar each		\$1,000	\$0	100%	\$0	
	g bulkhead restoration each		\$25,000	\$0	100%	\$0	
	h ponds restoration each		\$25,000	\$0	100%	\$0	
Subtotal for facility impact		59,483		\$34,690,182		\$32,115,998	
Total impact for land and facilities				\$36,790,182		\$34,215,998	

Prototype facility development costs
Playground - 10 child capacity

	unit	unit cost	qty	qty cost
a clear playground, parking, access road	acre	\$1,450.00	0.5	\$725
b earthwork for playground, parking, access road	cu yd	\$4.40	746	\$3,282
c site preparation, 12"sand or bark @100'diameter	sq ft	\$0.83	15,700	\$13,031
d medium play structure	each	\$10,000.00	1	\$10,000
e parent bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	3	\$2,700
f trash receptacle w/concrete support	each	\$300.00	2	\$600
g drinking fountain, precast concrete	each	\$750.00	1	\$750
h bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i parking, 2"asphalt concrete/4"crushed rock, 10 cars	sq ft	\$1.25	3,000	\$3,750
j wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
k access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	1,200	\$1,500
l water service, 8"service line	lr ft	\$15.00	100	\$1,500
m water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per playground				\$44,048
a contingency (design, financing)	8.2%			\$3,612
b design/engineering fees (const)	12.0%			\$5,286
c financing costs (design, const)	8.0%			\$4,236
d contingency (construction)	10.0%			\$5,718
Total development cost per playground				\$62,900

Grassy playfield - 1 acre

	unit	unit cost	qty	qty cost
a clear field, structures, parking, access road	acre	\$1,450.00	1	\$1,450
b earthwork for field, structures, parking, road	cu yd	\$4.40	1,613	\$7,099
c restroom facility, sani-can w/concrete platform	each	\$100.00	2	\$200
d trash receptacles w/concrete support	each	\$300.00	2	\$600
e playfield, grass seed w/subdrain	sq ft	\$0.20	43,560	\$8,712
f irrigation system-quick coupler	sq ft	\$0.42	43,560	\$18,295
g drinking fountain	each	\$750.00	1	\$750
h bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i parking, 2"asphalt concrete/4"crushed rock, 20 spaces	sq ft	\$1.25	6,000	\$7,500
j wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
k access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	4,800	\$6,000
l water service, 8"service line	lr ft	\$15.00	500	\$7,500
m water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field				\$67,966
a contingency (design, financing)	8.2%			\$5,573
b design/engineering fees (const)	12.0%			\$8,156
c financing costs (design, const)	8.0%			\$6,536
d contingency (construction)	10.0%			\$8,823
Total development cost per field				\$97,054

Outdoor handball courts - 3 wall 20'x40'

	unit	unit cost	qty	qty cost
a earthwork for court and support area	cu yd	\$4.40	50	\$220
b 3"asphalt/4"aggreg/6"gravel	sq ft	\$2.50	1,000	\$2,500
c concrete side walls	lr ft	\$25.00	80	\$2,000
d trash receptacles w/conc support	each	\$300.00	1	\$300
e drinking fountain	each	\$750.00	1	\$750

f	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
g	parking, 2"asphalt concrete/4"crushed rock, 2 spaces	sq ft	\$1.25	600	\$750
h	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	2	\$292
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	600	\$750
j	water service, 8"service line	lr ft	\$15.00	100	\$1,500
k	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per court \$13,812

a	contingency (design, financing)	8.2%			\$1,133
b	design/engineering fees (const)	12.0%			\$1,657
c	financing costs (design, const)	8.0%			\$1,328
d	contingency (construction)	10.0%			\$1,793

Total development cost per court \$19,723

Outdoor basketball - 70'x114'

		unit	unit cost	qty	qty cost
a	earthwork for court, parking, access road	cu yd	\$4.40	460	\$2,024
b	3"asphalt/4"aggreg/6"gravel	sq ft	\$2.50	7,980	\$19,950
c	standards w/hoop and net, 6"steel poles	each	\$700.00	2	\$1,400
d	trash receptacles w/conc support	each	\$300.00	1	\$300
e	drinking fountain	each	\$750.00	1	\$750
f	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
g	parking, 2"asphalt concrete/4"crushed rock, 10 space:	sq ft	\$1.25	3,000	\$3,750
h	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	1,200	\$1,500
j	water service, 8"service line	lr ft	\$15.00	100	\$1,500
k	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per court \$37,384

a	contingency (design, financing)	8.2%			\$3,065
b	design/engineering fees (const)	12.0%			\$4,486
c	financing costs (design, const)	8.0%			\$3,595
d	contingency (construction)	10.0%			\$4,853

Total development cost per court \$53,383

Outdoor volleyball - 42'x72'

		unit	unit cost	qty	qty cost
a	earthwork for court, parking, access road	cu yd	\$4.40	276	\$1,214
b	playing surface, 6"sand/compacted subgrade	cu yd	\$19.00	56	\$1,064
c	boundary lines, imbedded 4"x4"cedar	lr ft	\$2.65	180	\$477
d	net and anchors, 6"x6" treated wood posts	each	\$500.00	1	\$500
e	line judges stand, galvanized pipe w/2"x4" frame	each	\$700.00	2	\$1,400
f	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	2	\$1,800
g	trash receptacles w/concrete support	each	\$300.00	1	\$300
g	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 10 space:	sq ft	\$1.25	3,000	\$3,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	1,200	\$1,500
m	water service, 8"service line	lr ft	\$15.00	100	\$1,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per court \$20,465

a	contingency (design, financing)	8.2%			\$1,678
b	design/engineering fees (const)	12.0%			\$2,456
c	financing costs (design, const)	8.0%			\$1,968
d	contingency (construction)	10.0%			\$2,657

Total development cost per court

\$29,224

Outdoor tennis - 60'x120' with lights

	unit	unit cost	qty	qty cost	
a	earthwork for court, parking, access road	cu yd	\$4.40	320	\$1,408
b	colorcoat/1"asphalt/2"asphalt/4"crushed rock	sq ft	\$2.50	7,200	\$18,000
c	perimeter fencing, 12'galvanized w/1.75"fabric	lr ft	\$16.00	360	\$5,760
d	lighting system, 4 poles w/2 km projectors	system	\$30,000.00	1	\$30,000
e	net and anchors, 3.5"galvanized pipe posts	each	\$700.00	1	\$700
f	trash receptacles w/conc support	each	\$300.00	1	\$300
g	drinking fountain	each	\$750.00	1	\$750
h	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i	parking, 2"asphalt concrete/4"crushed rock, 4 spaces	sq ft	\$1.25	1,200	\$1,500
j	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	4	\$584
k	access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	1,200	\$1,500
l	water service, 8"service line	lr ft	\$15.00	100	\$1,500
m	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per court					\$66,752
a	contingency (design, financing)	8.2%			\$5,474
b	design/engineering fees (const)	12.0%			\$8,010
c	financing costs (design, const)	8.0%			\$6,419
d	contingency (construction)	10.0%			\$8,665
Total development cost per court					\$95,320

Outdoor tennis - 60'x120' without lights

	unit	unit cost	qty	qty cost	
a	earthwork for court, parking, access road	cu yd	\$4.40	320	\$1,408
b	colorcoat/1"asphalt/2"asphalt/4"crushed rock	sq ft	\$2.50	7,200	\$18,000
c	perimeter fencing, 12'galvanized w/1.75"fabric	lr ft	\$16.00	360	\$5,760
d	net and anchors, 3.5"galvanized pipe posts	each	\$700.00	1	\$700
e	trash receptacles w/conc support	each	\$300.00	1	\$300
f	drinking fountain	each	\$750.00	1	\$750
g	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
h	parking, 2"asphalt concrete/4"crushed rock, 4 spaces	sq ft	\$1.25	1,200	\$1,500
i	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	4	\$584
j	access road, 2"asphalt concrete/4"crushed rock, 24'x5'	sq ft	\$1.25	1,200	\$1,500
k	water service, 8"service line	lr ft	\$15.00	100	\$1,500
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per court					\$36,752
a	contingency (design, financing)	8.2%			\$3,014
b	design/engineering fees (const)	12.0%			\$4,410
c	financing costs (design, const)	8.0%			\$3,534
d	contingency (construction)	10.0%			\$4,771
Total development cost per court					\$52,481

Football field - 150'x300'

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	2	\$2,900
b	earthwork, 1'depth	cu yd	\$4.40	1,667	\$7,333
c	playing surface, grass turf/12" sand w/subdrain	sq ft	\$1.46	45,000	\$65,700
d	irrigation system-quick coupler	sq ft	\$0.42	45,000	\$18,900
e	spectator stands, movable metal (40 seats)	each	\$4,000.00	4	\$16,000
f	restroom facility, sani-can on concrete platform	each	\$1,044.00	2	\$2,088
g	trash receptacles w/conc support	each	\$300.00	2	\$600

h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$158,571
a	contingency (design, financing)	8.2%			\$13,003
b	design/engineering fees (const)	12.0%			\$19,029
c	financing costs (design, const)	8.0%			\$15,248
d	contingency (construction)	10.0%			\$20,585
Total development cost per field					\$226,436

Soccer field - 240'x330' with grass turf

		unit	unit cost	qty	qty cost
a	clear field, structures, parking, access road	acre	\$1,450.00	2.1	\$3,045
b	earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c	playing surface, grass turf/12"sand w/subdrain	sq ft	\$1.46	79,200	\$115,632
d	irrigation system-quick coupler	sq ft	\$0.42	79,200	\$33,264
e	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
f	trash receptacles w/conc support	each	\$300.00	2	\$600
g	drinking fountain	each	\$750.00	1	\$750
h	restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$232,093
a	contingency (design, financing)	8.2%			\$19,032
b	design/engineering fees (const)	12.0%			\$27,851
c	financing costs (design, const)	8.0%			\$22,318
d	contingency (construction)	10.0%			\$30,129
Total development cost per field					\$331,423

Soccer field - 240'x330' with dirt surface

		unit	unit cost	qty	qty cost
a	clear field, structures, parking, access road	acre	\$1,450.00	2.1	\$3,045
b	earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c	playing surface, cinder w/subdrain	sq ft	\$0.20	79,200	\$15,840
d	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
e	trash receptacles w/conc support	each	\$300.00	2	\$600
f	drinking fountain	each	\$750.00	1	\$750
g	restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
h	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
i	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
j	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
k	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
l	water service, 8"service line	lr ft	\$15.00	500	\$7,500
m	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$99,037
a	contingency (design, financing)	8.2%			\$8,121

b design/engineering fees (const)	12.0%	\$11,884
c financing costs (design, const)	8.0%	\$9,523
d contingency (construction)	10.0%	\$12,857
Total development cost per field		\$141,422

Soccer field - regulation 300'x390' with grass turf with lights

	unit	unit cost	qty	qty cost
a clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c playing surface, grass turf/12"sand w/subdrain	sq ft	\$1.46	117,000	\$170,820
d irrigation system-quick coupler	sq ft	\$0.42	117,000	\$49,140
e lighting system, 8 poles w/luminaires	system	\$91,000.00	1	\$91,000
f goal posts, galvanized pipe	each	\$1,500.00	2	\$3,000
g spectator stands, movable metal (50 seats)	each	\$5,000.00	4	\$20,000
h trash receptacles w/conc support	each	\$300.00	2	\$600
i drinking fountain	each	\$750.00	1	\$750
j restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
k bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
l parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
m wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
n access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
o water service, 8"service line	lr ft	\$15.00	500	\$7,500
p water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$408,607

a contingency (design, financing)	8.2%	\$33,506
b design/engineering fees (const)	12.0%	\$49,033
c financing costs (design, const)	8.0%	\$39,292
d contingency (construction)	10.0%	\$53,044

Total development cost per field \$583,480

Soccer field - regulation 300'x390' with dirt surface

	unit	unit cost	qty	qty cost
a clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b earthwork for field, structures, parking, road	cu yd	\$4.40	5,094	\$22,414
c playing surface, cinder w/subdrain	sq ft	\$0.20	117,000	\$23,400
d goal posts, galvanized pipe	each	\$1,500.00	2	\$3,000
e spectator stands, movable metal (50 seats)	each	\$5,000.00	4	\$20,000
f trash receptacles w/conc support	each	\$300.00	2	\$600
g drinking fountain	each	\$750.00	1	\$750
h restroom facility, sani-can w/conc platform	each	\$1,044.00	2	\$2,088
i bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
l access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m water service, 8"service line	lr ft	\$15.00	500	\$7,500
n water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$121,047

a contingency (design, financing)	8.2%	\$9,926
b design/engineering fees (const)	12.0%	\$14,526
c financing costs (design, const)	8.0%	\$11,640
d contingency (construction)	10.0%	\$15,714

Total development cost per field \$172,852

Baseball field - 200' with grass turf

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	1.2	\$1,740
b	earthwork for field, structures, parking, road	cu yd	\$4.40	2,586	\$11,378
c	infield mix w/subdrain	cu yd	\$18.00	133	\$2,400
d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	36,400	\$53,144
e	irrigation system-quick coupler	sq ft	\$0.42	36,400	\$15,288
f	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
g	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
h	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
i	trash receptacles w/conc support	each	\$300.00	2	\$600
j	drinking fountain	each	\$750.00	1	\$750
k	restroom facility, sani-can w/conc platform	sq ft	\$1,044.00	2	\$2,088
l	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
m	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
n	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
o	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
p	water service, 8"service line	lr ft	\$15.00	500	\$7,500
q	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$142,473

a	contingency (design, financing)	8.2%	\$11,683
b	design/engineering fees (const)	12.0%	\$17,097
c	financing costs (design, const)	8.0%	\$13,700
d	contingency (construction)	10.0%	\$18,495

Total development cost per field \$203,449

Baseball field - 200' with dirt surface

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	1.2	\$1,740
b	earthwork for field, structures, parking, road	cu yd	\$4.40	2,586	\$11,378
c	infield mix w/subdrain	cu yd	\$18.00	133	\$2,400
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	restroom facility, sani-can w/conc platform	sq ft	\$1,044.00	2	\$2,088
j	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
k	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
l	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
m	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
n	water service, 8"service line	lr ft	\$15.00	500	\$7,500
o	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$74,041

a	contingency (design, financing)	8.2%	\$6,071
b	design/engineering fees (const)	12.0%	\$8,885
c	financing costs (design, const)	8.0%	\$7,120
d	contingency (construction)	10.0%	\$9,612

Total development cost per field \$105,729

Baseball field - 250' with grass/lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b	earthwork for field, structures, parking, road	cu yd	\$4.40	3,700	\$16,280
c	infield mix w/subdrain	cu yd	\$18.00	300	\$5,400

d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	44,700	\$65,262
e	irrigation system-quick coupler	sq ft	\$0.42	44,700	\$18,774
f	lighting system, 8 poles w/luminaires	system	\$91,000.00	1	\$91,000
g	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
h	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
i	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
j	trash receptacles w/conc support	each	\$300.00	2	\$600
k	drinking fountain	each	\$750.00	1	\$750
l	concession facility, warming and refrigeration	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
n	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
q	water service, 8"service line	lr ft	\$15.00	500	\$7,500
r	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$282,646

a	contingency (design, financing)	8.2%	\$23,177
b	design/engineering fees (const)	12.0%	\$33,918
c	financing costs (design, const)	8.0%	\$27,179
d	contingency (construction)	10.0%	\$36,692

Total development cost per field \$403,612

Baseball field - 250' w/o lights or concession

		unit	unit cost	qnty	qnty cost
a	clear field, structures, parking, access road	acre	\$1,450.00	3.1	\$4,495
b	earthwork for field, structures, parking, road	cu yd	\$4.40	3,700	\$16,280
c	infield mix w/subdrain	cu yd	\$18.00	300	\$5,400
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per field \$82,610

a	contingency (design, financing)	8.2%	\$6,774
b	design/engineering fees (const)	12.0%	\$9,913
c	financing costs (design, const)	8.0%	\$7,944
d	contingency (construction)	10.0%	\$10,724

Total development cost per field \$117,965

Baseball field - 300' w/grass/lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	3.5	\$5,075
b	earthwork for field, structures, parking, road	cu yd	\$4.40	4,000	\$17,600
c	infield mix w/subdrain	cu yd	\$18.00	296	\$5,333
d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	38,000	\$55,480
e	irrigation system-quick coupler	sq ft	\$0.42	45,000	\$18,900
f	lighting system, 8 poles w/luminaires	system	\$91,000.00	1	\$91,000
g	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
h	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
i	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
j	trash receptacles w/conc support	each	\$300.00	2	\$600
k	drinking fountain	each	\$750.00	1	\$750
l	concession facility, warming and refrigeration w/pa sy	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
n	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
q	water service, 8"service line	lr ft	\$15.00	500	\$7,500
r	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$280,448
a	contingency (design, financing)	8.2%			\$22,997
b	design/engineering fees (const)	12.0%			\$33,654
c	financing costs (design, const)	8.0%			\$26,968
d	contingency (construction)	10.0%			\$36,407
Total development cost per field					\$400,473

Baseball field - 300' w/dirt w/o lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	3.5	\$5,075
b	earthwork for field, structures, parking, road	cu yd	\$4.40	4,000	\$17,600
c	infield mix w/subdrain	cu yd	\$18.00	296	\$5,333
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 50 space:	sq ft	\$1.25	15,000	\$18,750
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$90,068
a	contingency (design, financing)	8.2%			\$7,386
b	design/engineering fees (const)	12.0%			\$10,808
c	financing costs (design, const)	8.0%			\$8,661
d	contingency (construction)	10.0%			\$11,692
Total development cost per field					\$128,615

Softball field - 200-300' w/grass/lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	0.8	\$1,160
b	earthwork for field, structures, parking, road	cu yd	\$4.40	1,335	\$5,874
c	infield mix w/subdrain	cu yd	\$18.00	150	\$2,700
d	outfield, grass turf/12" sand w/subdrain	sq ft	\$1.46	15,950	\$23,287
e	irrigation system-quick coupler	sq ft	\$0.42	15,950	\$6,699
f	lighting system, 5 poles w/luminaires	system	\$41,250.00	1	\$41,250
g	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
h	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
i	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
j	trash receptacles w/conc support	each	\$300.00	2	\$600
k	drinking fountain	each	\$750.00	1	\$750
l	concession facility, warming and refrigeration	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
n	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
q	water service, 8"service line	lr ft	\$15.00	500	\$7,500
r	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$162,405
a	contingency (design, financing)	8.2%			\$13,317
b	design/engineering fees (const)	12.0%			\$19,489
c	financing costs (design, const)	8.0%			\$15,617
d	contingency (construction)	10.0%			\$21,083
Total development cost per field					\$231,910

Softball field - 200-300' w/dirt w/o lights/concession

	unit	unit cost	qty	qty cost	
a	clear field, structures, parking, access road	acre	\$1,450.00	0.8	\$1,160
b	earthwork for field, structures, parking, road	cu yd	\$4.40	1,335	\$5,874
c	infield mix w/subdrain	cu yd	\$18.00	150	\$2,700
d	backstop, 3"pipe posts w/supports, 2"chain link	each	\$5,000.00	1	\$5,000
e	players bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	4	\$3,600
f	spectator stands, movable metal (50 seats)	each	\$5,000.00	2	\$10,000
g	trash receptacles w/conc support	each	\$300.00	2	\$600
h	drinking fountain	each	\$750.00	1	\$750
i	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
j	parking, 2"asphalt concrete/4"crushed rock, 35 space:	sq ft	\$1.25	10,500	\$13,125
k	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	35	\$5,110
l	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m	water service, 8"service line	lr ft	\$15.00	500	\$7,500
n	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per field					\$66,169
a	contingency (design, financing)	8.2%			\$5,426
b	design/engineering fees (const)	12.0%			\$7,940
c	financing costs (design, const)	8.0%			\$6,363
d	contingency (construction)	10.0%			\$8,590
Total development cost per field					\$94,488

Parcourse facility - 5 stations/0.25 mile

	unit	unit cost	qty	qty cost	
a	clear/earthwork parcourse corridor	sq ft	\$1.40	8,070	\$11,298
b	crushed rock, 6"depth, 4'wide, 3/8" minus	sq ft	\$0.65	5,380	\$3,497
c	interpretative signs, 4"x4"cedar framed	each	\$200.00	5	\$1,000
d	bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	2	\$1,800
e	trash receptacles w/concrete support	each	\$300.00	2	\$600
Total construction cost per facility					\$18,195
a	contingency (design, financing)	8.2%			\$1,492
b	design/engineering fees (const)	12.0%			\$2,183
c	financing costs (design, const)	8.0%			\$1,750
d	contingency (construction)	10.0%			\$2,362
Total development cost per facility (5 stations)					\$25,982

Jogging track - 0.25 mile w/starting spur

	unit	unit cost	qty	qty cost	
a	clear track, parking, access road	acre	\$1,450.00	0.9	\$1,305
b	earthwork for track, parking, access road	cu yd	\$4.40	1,532	\$6,741
c	12'track, 1"rubber/4"cinder/4"crushed rock	sq ft	\$1.02	18,464	\$18,833
d	bench, 8"x8"x10'wood beams w/conc support	each	\$900.00	2	\$1,800
e	trash receptacles	each	\$300.00	2	\$600
f	drinking fountain, precast concrete	each	\$750.00	1	\$750
g	bike rack, prefab galvanized pipe	each	\$350.00	1	\$350
h	parking, 2"asphalt/4"crushed rock, 10 spaces	sq ft	\$1.25	3,000	\$3,750
i	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
j	access road, 2"asphalt/4"crushed rock, 24'x50'	sq ft	\$1.25	1,200	\$1,500
k	water service, 8"service line	lr ft	\$15.00	100	\$1,500
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per track					\$42,989
a	contingency (design, financing)	8.2%			\$3,525
b	design/engineering fees (const)	12.0%			\$5,159
c	financing costs (design, const)	8.0%			\$4,134
d	contingency (construction)	10.0%			\$5,581
Total development cost per track					\$61,388

Picnic site - 25 table capacity w/o shelter

	unit	unit cost	qty	qty cost	
a	clear picnic sites, parking, access road	acre	\$1,450.00	2.3	\$3,335
b	earthwork for sites, parking, access road	cu yd	\$4.40	3,748	\$16,491
c	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
d	barbecue stand, metal with iron grill	each	\$300.00	12	\$3,600
e	group barbecue, 3'x8' concrete w/iron grill	each	\$872.00	2	\$1,744
f	trash receptacle, galvanized metal can w/holder	each	\$300.00	12	\$3,600
g	drinking fountain	each	\$750.00	2	\$1,500
h	parking, 2"asphalt concrete/4" crushed rock (50 cars)	sq ft	\$1.25	15,000	\$18,750
i	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
j	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.25	24,000	\$30,000
k	water service, 8"service line	lr ft	\$15.00	1,000	\$15,000
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost for 25 tables					\$133,220
a	contingency (design, financing)	8.2%			\$10,924
b	design/engineering fees (const)	12.0%			\$15,986
c	financing costs (design, const)	8.0%			\$12,810
d	contingency (construction)	10.0%			\$17,294

Total development cost for 25 tables	\$190,235
Prorated per table	\$7,609

Picnic site - shelter

	unit	unit cost	qty	qty cost
a picnic shelter (20'x30'), cedar pole w/shake roof	each	\$27,000.00	2	\$54,000
Total construction cost for 25 tables				\$54,000
b contingency (design, financing)		8.2%		\$4,428
c design/engineering fees (const)		12.0%		\$6,480
d financing costs (design, const)		8.0%		\$5,193
e contingency (construction)		10.0%		\$7,010
Total development cost for 1 shelter				\$77,111
Prorated per shelter				\$38,555

Swimming beach - 100 swimmer capacity

	unit	unit cost	qty	qty cost
a clear site for improvements	acre	\$1,450.00	0.3	\$435
b earthwork for site improvements	cu yd	\$4.40	511	\$2,248
c beach sand, 6"depth of area 200'x50'	cu yd	\$19.00	200	\$3,800
d safety markers, pilings w/nylon ropes and buoys	each	\$1,100.00	4	\$4,400
e diving/swimming platform, 2"x6"wood over buoys	sq ft	\$28.00	80	\$2,240
f lifeguard stand, 8"cedar poles w/2"x4"framing	each	\$1,400.00	1	\$1,400
g exterior shower facilities	each	\$1,200.00	1	\$1,200
h drinking fountain	each	\$750.00	1	\$750
i restroom/changing facility, 6 stalls w/4 sinks	sq ft	\$100.00	600	\$60,000
j parking, 2"asphalt concrete/4" crushed rock (40 cars)	sq ft	\$1.25	12,000	\$15,000
k wheel stops, 10"x6"x8'precast concrete	each	\$146.00	30	\$4,380
l access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
m water service, 8"service line	lr ft	\$15.00	400	\$6,000
n sewer line, 8"service line	lr ft	\$17.00	400	\$6,800
o fire hydrants	each	\$2,675.00	1	\$2,675
p water meter, 2" size	each	\$4,400.00	1	\$4,400
q trash receptacles	each	\$300.00	4	\$1,200
Total construction cost per site				\$122,928
a contingency (design, financing)		8.2%		\$10,080
b design/engineering fees (const)		12.0%		\$14,751
c financing costs (design, const)		8.0%		\$11,821
d contingency (construction)		10.0%		\$15,958
Total development cost per site				\$175,539
Prorated per parking space (2.5 swimmers/car=40 spaces)				\$4,388

Fishing from a bank or dock - 25 car capacity

	unit	unit cost	qty	qty cost
a clear site improvements	acre	\$1,450.00	0.3	\$363
b earthwork for site improvements	cu yd	\$4.40	550	\$2,420
c pier supported dock, treated wood 12'x100'	sq ft	\$50.00	1,200	\$60,000
d fishing platform, treated wood/styrofoam 12'x20'	sq ft	\$32.00	240	\$7,680
e parking, 2"asphalt concrete/4"crushed rock - 25 space	sq ft	\$1.25	7,500	\$9,375
f wheel stops, 10"x6"x8'precast concrete	each	\$146.00	25	\$3,650
g access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
h picnic tables and benches, 4'x6"wood beams w/concre	each	\$900.00	8	\$7,200
i restroom facility, sanican w/concrete platform	each	\$1,044.00	2	\$2,088
j trash receptacles w/concrete support	each	\$300.00	2	\$600
Total construction cost per site				\$99,376

a	contingency (design, financing)	8.2%	\$8,149
b	design/engineering fees (const)	12.0%	\$11,925
c	financing costs (design, const)	8.0%	\$9,556
d	contingency (construction)	10.0%	\$12,901
Total development cost per facility			\$141,906
Prorated per parking space			\$5,676

Boat launch - 25 boat capacity

	unit	unit cost	qty	qty cost	
a	clear site improvements	acre	\$1,450.00	0.4	\$508
b	earthwork for site improvements	cu yd	\$4.40	2,400	\$10,560
c	boat access ramp, precast concrete ramp units	each	\$17,500.00	1	\$17,500
d	mooring platform, treated wood/styrofoam	sq ft	\$32.00	400	\$12,800
e	bank stabilization/landscape plantings	each	\$6,000.00	1	\$6,000
f	marker buoys and signage	each	\$250.00	4	\$1,000
g	car/trailer parking, 2"asphalt concrete/4"crushed rock	sq ft	\$1.25	12,500	\$15,625
h	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	25	\$3,650
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.25	4,800	\$6,000
j	trash receptacles	each	\$300.00	2	\$600
Total construction cost per site				\$74,243	

a	contingency (design, financing)	8.2%	\$6,088
b	design/engineering fees (const)	12.0%	\$8,909
c	financing costs (design, const)	8.0%	\$7,139
d	contingency (construction)	10.0%	\$9,638
Total development cost per ramp			\$106,017
Prorated per boat trailer parking stall			\$4,241

Handboat launch - 10 car capacity

	unit	unit cost	qty	qty cost	
a	clear site improvements	acre	\$1,450.00	0.3	\$363
b	earthwork for site improvements/launching ramp	cu yd	\$4.40	2,400	\$10,560
c	concrete launching ramp	each	\$17,500.00	1	\$17,500
d	launching platform, treated wood/styrofoam 10'x20'	sq ft	\$32.00	200	\$6,400
e	landscape/bank stabilization plantings	each	\$6,000.00	1	\$6,000
f	parking, 2"asphalt concrete/4"crushed rock - 10 space	sq ft	\$1.25	3,000	\$3,750
g	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	10	\$1,460
h	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.25	2,400	\$3,000
i	restroom facility, sanican w/concrete platform	each	\$1,044.00	2	\$2,088
j	trash receptacles w/concrete support	each	\$300.00	2	\$600
Total construction cost per site				\$51,721	

a	contingency (design, financing)	8.2%	\$4,241
b	design/engineering fees (const)	12.0%	\$6,206
c	financing costs (design, const)	8.0%	\$4,973
d	contingency (construction)	10.0%	\$6,714
Total development cost per facility			\$73,856
Prorated per parking space			\$7,386

Tent camping - 25 campsite capacity

	unit	unit cost	qty	qty cost	
a	clear camping area, parking, access road	acre	\$1,450.00	5.6	\$8,120
b	earthwork in camping area, parking, access road	cu yd	\$4.40	9,157	\$40,291
c	campsite parking, 2"asphalt concrete/4"crushed rock	sq ft	\$1.25	20,000	\$25,000
d	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
e	barbecue pits, concrete with iron grill	each	\$300.00	25	\$7,500

f	camp shelter (10'x6'), cedar pole w/shake roof	each	\$2,700.00	25	\$67,500
g	trash receptacle, galvanized can w/4"x4" post	each	\$300.00	25	\$7,500
h	restroom/showering facility, 6 stalls/4 sinks/4 shower	sq ft	\$100.00	850	\$85,000
i	camp directory signs, 4"x4"cedar pole framed	each	\$200.00	20	\$4,000
j	access road, 6"crushed rock, 24'x5,380'	sq ft	\$1.25	129,120	\$161,400
k	water service, 8"service line	lr ft	\$15.00	5,380	\$80,700
l	sewage disposal, campground septic tank drainfield	each	\$20,000.00	1	\$20,000
m	fire hydrant	each	\$2,675.00	1	\$2,675
n	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost for 25 campsites \$541,586

a	contingency (design, financing)	8.2%	\$44,410
b	design/engineering fees (const)	12.0%	\$64,990
c	financing costs (design, const)	8.0%	\$52,079
d	contingency (construction)	10.0%	\$70,307

Total development cost for 25 campsites \$773,372

Prorated per campsite \$30,935

Group daycamping facility - 100 person capacity

		unit	unit cost	qty	qty cost
a	clear camping site, parking, access road	acre	\$1,450.00	3.1	\$4,495
b	earthwork for sites, parking, access road	cu yd	\$4.40	5,134	\$22,590
c	group campfire/amphitheater, wood stage/benches	each	\$13,000.00	1	\$13,000
d	camp directory signs, 4"x4"cedar pole framed	each	\$200.00	20	\$4,000
e	group cooking, 4'x12' concrete w/iron grill	each	\$1,744.00	2	\$3,488
f	eating shelter (30'x30'), cedar pole w/shake roof	sq ft	\$45.00	900	\$40,500
g	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
h	trash bin, metal dumpster w/wood fence screen	each	\$1,500.00	3	\$4,500
i	restroom facility, 6 stalls w/4 sinks	sq ft	\$100.00	600	\$60,000
j	drinking fountain	each	\$750.00	1	\$750
k	parking, 2"asphalt concrete/4"crushed rock, 50 cars	sq ft	\$1.25	15,000	\$18,750
l	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	50	\$7,300
m	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.25	24,000	\$30,000
n	water service, 8"service line	lr ft	\$15.00	1,000	\$15,000
o	sewage disposal, septic tank w/drainfield	system	\$20,000.00	1	\$20,000
p	fire hydrant	each	\$2,675.00	1	\$2,675
q	water meter, 2"size	each	\$4,400.00	1	\$4,400

Total construction cost per group camp \$278,948

a	contingency (design, financing)	8.2%	\$22,874
b	design/engineering fees (const)	12.0%	\$33,474
c	financing costs (design, const)	8.0%	\$26,824
d	contingency (construction)	10.0%	\$36,212

Total development cost per group camp \$398,330

Prorated per person \$3,983

Recreational vehicle camping - 25 campsite capacity

		unit	unit cost	qty	qty cost
a	clear campsite, parking, access road	acre	\$1,450.00	10.1	\$14,645
b	earthwork for campsite, parking, access road	cu yd	\$4.40	16,460	\$72,424
c	campsite parking, 2"asphalt concrete/4"crushed rock	sq ft	\$1.25	30,000	\$37,500
d	picnic tables and benches, 4"x6"wood beams w/conc	each	\$1,100.00	25	\$27,500
e	barbecue pits, concrete with iron grill	each	\$300.00	25	\$7,500
f	drinking fountain	each	\$750.00	1	\$750
g	trash receptacle, galvanized can w/4"x4" post	each	\$300.00	25	\$7,500
h	sanitary dump facility, 2 stalls	each	\$18,000.00	1	\$18,000

i	camp directory signs, 4"x4" cedar pole framed	each	\$200.00	20	\$4,000
j	access road, 2"asphalt concrete/4"crushed rock, 24'x6'	sq ft	\$1.25	193,680	\$242,100
k	water service, 3"service line	lr ft	\$12.00	8,070	\$96,840
l	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost for 25 campsites					\$533,159
a	contingency (design, financing)		8.2%		\$43,719
b	design/engineering fees (const)		12.0%		\$63,979
c	financing costs (design, const)		8.0%		\$51,269
d	contingency (construction)		10.0%		\$69,213
Total development cost for 25 campsites					\$761,338
Prorated per campsite					\$30,454

Outdoor swimming pool - 75'x42'=3,150 sf of 294 person capacity

		unit	unit cost	qty	qty cost
a	clear pool area, deck, parking, access road	acre	\$1,450.00	1.1	\$1,595
b	earthwork, 1'depth except pool @5'depth	cu yd	\$4.40	2,370	\$10,428
c	diving area, 1 meter board capacity = 3 in pool + 9 in line/board/10'radius = 12 divers/board	sq ft	\$41.00	628	\$25,748
d	swimming area, 50'x42' less diving area reqmnt capacity = 27 sq ft/swimmer with 75% of swimmers in pool = 54 in pool + 18 on deck = 72 swimmers	sq ft	\$41.00	1,472	\$60,352
e	nonswimming area, 25'x42' capacity = 10 sq ft/person with 50% in pool = 105 in pool + 105 on land = 210 persons	sq ft	\$41.00	1,050	\$43,050
f	pool deck, 10'on sides, 20'on ends, tile/concrete	sq ft	\$4.00	1,590	\$6,360
g	lifeguard stand, galvanized pipe w/2"x4"framing	each	\$700.00	2	\$1,400
h	drinking fountain	each	\$750.00	1	\$750
i	locker/shower facility, 20 showers w/50 lockers	sq ft	\$100.00	1,000	\$100,000
j	restroom facility, 10 stalls w/6 sinks	sq ft	\$100.00	1,000	\$100,000
k	concession facility, grill and refrigeration	sq ft	\$100.00	250	\$25,000
l	bike rack, prefab galvanized pipe	each	\$350.00	3	\$1,050
m	parking, 2"asphalt concrete/4"crushed rock, 128 spaces 2.5 swimmers/car = 118 cars + 10 employees = 128	sq ft	\$1.25	38,400	\$48,000
n	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	128	\$18,688
o	access road, 2"asphalt concrete/4"crushed rock, 24'x6'	sq ft	\$1.25	6,000	\$7,500
p	water service, 8"service line	lr ft	\$15.00	400	\$6,000
q	sewer service, 8"side sewer	lr ft	\$17.00	400	\$6,800
r	fire hydrant	each	\$2,675.00	1	\$2,675
s	water meter, 8"size	each	\$10,000.00	1	\$10,000
t	chainlink perimeter fence, 6'	lr ft	\$10.00	317	\$3,170
u	seed grass over 4"topsoil	sq ft	\$0.83	1,564	\$1,298
Total construction cost for 294 swimmers					\$479,864
a	contingency (design, financing)		8.2%		\$39,349
b	design/engineering fees (const)		12.0%		\$57,584
c	financing costs (design, const)		8.0%		\$46,144
d	contingency (construction)		10.0%		\$62,294
Total development cost for 294 swimmers/3,150 sq ft pool)					\$685,234
Prorated per square foot of total pool					\$218

Indoor swimming pool - 75'x42'=3,150 sf of 294 person capacity

		unit	unit cost	qty	qty cost
a	clear pool area, deck, parking, access road	acre	\$1,450.00	1.1	\$1,595
b	earthwork, 1'depth except pool @5'depth	cu yd	\$4.40	2,370	\$10,428

c	diving area, 1 meter board capacity = 3 in pool + 9 in line/board/10'radius = 12 divers/board	sq ft	\$41.00	628	\$25,748
d	swimming area, 50'x42' less diving area reqmnt capacity = 27 sq ft/swimmer with 75% of swimmers in pool = 54 in pool + 18 on deck = 72 swimmers	sq ft	\$41.00	1,472	\$60,352
e	nonswimming area, 25'x42' capacity = 10 sq ft/person with 50% in pool = 105 in pool + 105 on land = 210 persons	sq ft	\$41.00	1,050	\$43,050
f	pool deck, 10'on sides, 20'on ends, tile/concrete	sq ft	\$4.00	1,590	\$6,360
g	enclosed structure for pools et.al.	sq ft	\$60.00	4,740	\$284,400
h	lifeguard stand, galvanized pipe w/2"x4"framing	each	\$700.00	2	\$1,400
i	drinking fountain	each	\$750.00	1	\$750
j	locker/shower facility, 20 showers w/50 lockers	sq ft	\$100.00	1,000	\$100,000
k	restroom facility, 10 stalls w/6 sinks	sq ft	\$100.00	1,000	\$100,000
l	concession facility, grill and refrigeration	sq ft	\$100.00	250	\$25,000
m	bike rack, prefab galvanized pipe	each	\$350.00	3	\$1,050
n	parking, 2"asphalt concrete/4"crushed rock, 128 spaces 2.5 swimmers/car = 118 cars + 10 employees = 128	sq ft	\$1.25	38,400	\$48,000
o	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	128	\$18,688
p	access road, 2"asphalt concrete/4"crushed rock, 24'x2'	sq ft	\$1.25	6,000	\$7,500
q	water service, 8"service line	lr ft	\$15.00	400	\$6,000
r	sewer service, 8"side sewer	lr ft	\$17.00	400	\$6,800
s	fire hydrant	each	\$2,675.00	1	\$2,675
t	water meter, 8"size	each	\$10,000.00	1	\$10,000
u	chainlink perimeter fence, 6'	lr ft	\$10.00	317	\$3,170
v	seed grass over 4"topsoil	sq ft	\$0.83	1,564	\$1,298

Total construction cost for 294 swimmers \$764,264

a	contingency (design, financing)	8.2%	\$62,670
b	design/engineering fees (const)	12.0%	\$91,712
c	financing costs (design, const)	8.0%	\$73,492
d	contingency (construction)	10.0%	\$99,214

Total development cost for 294 swimmers/3,150 sq ft pool) \$1,091,351

Prorated per square foot of total pool \$346

Community center - 250 person capacity

	unit	unit cost	qnty	qnty cost	
a	clear building site, parking, access road	acre	\$1,450.00	3	\$4,350
b	earthwork for structure, parking, access road	cu yd	\$4.40	1,613	\$7,099
c	gymnasium, 2 full basketball courts	sq ft	\$80.00	11,280	\$902,400
d	racquetball courts	sq ft	\$95.00	3,680	\$349,600
e	kitchen facility	sq ft	\$75.00	360	\$27,000
f	game/classroom	sq ft	\$65.00	960	\$62,400
g	exercise/aerobics room, 50 persons	sq ft	\$65.00	5,000	\$325,000
h	physical conditioning/hydro/wellness facility	sq ft	\$65.00	2,745	\$178,425
i	office and reception area	sq ft	\$65.00	1,000	\$65,000
j	multipurpose, restroom, locker room, showers	sq ft	\$110.00	3,400	\$374,000
k	bike rack	each	\$350.00	1	\$350
l	parking, 2"asphalt concrete/4"crushed rock, 175 cars	sq ft	\$1.25	52,500	\$65,625
m	wheel stops, 10"x6"x8'precast concrete	each	\$146.00	75	\$10,950
n	access road, 2"asphalt concrete/4"crushed rock, 24'x2'	sq ft	\$1.25	6,000	\$7,500
o	water service, 8"service line	lr ft.	\$15.00	400	\$6,000
p	sewage disposal, 8"service line	lr ft	\$17.00	400	\$6,800
q	fire hydrant	each	\$2,675.00	1	\$2,675

r	water meter, 2"size	each	\$4,400.00	1	\$4,400
s	parking lot lighting, 10 poles	system	\$35,000.00	1	\$35,000
t	art sculpture	each	\$5,000.00	1	\$5,000
Total construction cost per center					\$2,439,574
a	contingency (design, financing)		8.2%		\$200,045
b	design/engineering fees (const)		12.0%		\$292,749
c	financing costs (design, const)		8.0%		\$234,589
d	contingency (construction)		10.0%		\$316,696
Total development cost per center					\$3,483,653
Prorated per square foot					\$122.56

Restroom/support facilities

		unit	unit cost	qty	qty cost
a	restroom facility, 4 stalls w/2 sinks	sq ft	\$100.00	500	\$50,000
b	sewer service, 8"side sewer	lr ft	\$17.00	500	\$8,500
c	water service, 8"service line	lr ft	\$15.00	500	\$7,500
d	fire hydrant	each	\$2,675.00	1	\$2,675
e	water meter, 2"size	each	\$4,400.00	1	\$4,400
Total construction cost per facility/4 fixtures					\$73,075
a	contingency (design, financing)		8.2%		\$5,992
b	design/engineering fees (const)		12.0%		\$8,769
c	financing costs (design, const)		8.0%		\$7,027
d	contingency (construction)		10.0%		\$9,486
Total development cost per 4 stall facility					\$104,349

Source: the Beckwith Consulting Group with Hough Beck & Baird

Prototype trail development costs

Multipurpose trail - 8 foot wide crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 12' wide	sq ft	\$0.35	322,800	\$112,980
b	crushed rock, rolled to 4", 3/8" minus - 8' wide	sq ft	\$0.75	215,200	\$161,400
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$325,400	
j	contingency (design, financing)	8.2%		\$26,683	
k	design/engineering fees (const)	12.0%		\$39,048	
l	financing costs (design, const)	8.0%		\$31,290	
m	contingency (construction)	15.0%		\$63,363	
Total development cost per 5 miles				\$485,784	
Prorated per mile				\$97,157	

Multipurpose trail - 8 foot asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 12' wide	sq ft	\$0.35	322,800	\$112,980
b	2"asphalt over 4"crushed rock - 8' wide	sq ft	\$1.80	215,200	\$387,360
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$551,360	
j	contingency (design, financing)	8.2%		\$45,212	
k	design/engineering fees (const)	12.0%		\$66,163	
l	financing costs (design, const)	8.0%		\$53,019	
m	contingency (construction)	15.0%		\$107,363	
Total development cost per 5 miles				\$823,117	
Prorated per mile				\$164,623	

Multipurpose trail - 10 foot crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b	crushed rock, rolled to 4", 3/8" minus - 10' wide	sq ft	\$0.75	269,000	\$201,750
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$384,580	
j	contingency (design, financing)	8.2%		\$31,536	
k	design/engineering fees (const)	12.0%		\$46,150	
l	financing costs (design, const)	8.0%		\$36,981	

m contingency (construction)	15.0%	\$74,887
Total development cost per 5 miles		\$574,133
Prorated per mile		\$114,827

Multipurpose trail - 10 foot asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b 2"asphalt over 4"crushed rock - 10' wide	sq ft	\$1.80	269,000	\$484,200
c trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i access road, 2"asphalt concrete/4"crushed rock, 24'x2'	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$667,030
j contingency (design, financing)	8.2%			\$54,696
k design/engineering fees (const)	12.0%			\$80,044
l financing costs (design, const)	8.0%			\$64,142
m contingency (construction)	15.0%			\$129,887
Total development cost per 5 miles				\$995,798
Prorated per mile				\$199,160

Park walking trail class 1 - crushed rock (1 mile w/o services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork trail corridor - 10' wide	sq ft	\$0.35	53,800	\$18,830
b crushed rock, 6"depth, 3/8" minus - 6' wide	sq ft	\$0.65	32,280	\$20,982
c interpretative signs, 4"x4"cedar framed	each	\$1,000.00	5	\$5,000
d trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile				\$56,112
f contingency (design, financing)	8.2%			\$4,601
g design/engineering fees (const)	12.0%			\$6,733
h financing costs (design, const)	8.0%			\$5,396
i contingency (construction)	15.0%			\$10,926
Total development cost per mile				\$83,769

Park walking trail class 1 - asphalt (1 mile w/o services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork trail corridor - 10' wide	sq ft	\$0.35	53,800	\$18,830
b 2"asphalt over 4"crushed rock - 6' wide	sq ft	\$1.80	32,280	\$58,104
c interpretative signs, 4"x4"cedar framed	each	\$200.00	5	\$1,000
d trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile				\$89,234
f contingency (design, financing)	8.2%			\$7,317
g design/engineering fees (const)	12.0%			\$10,708
h financing costs (design, const)	8.0%			\$8,581
i contingency (construction)	15.0%			\$17,376
Total development cost per mile				\$133,216

Park walking trail class 2 - crushed rock (1 mile w/o services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork trail corridor - 8' wide	sq ft	\$0.35	43,040	\$15,064
b	crushed rock, 6" depth, 3/8" minus - 5' wide	sq ft	\$0.65	26,900	\$17,485
c	interpretative signs, 4"x4" cedar framed	each	\$1,000.00	5	\$5,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile					\$48,849
f	contingency (design, financing)	8.2%			\$4,006
g	design/engineering fees (const)	12.0%			\$5,862
h	financing costs (design, const)	8.0%			\$4,697
i	contingency (construction)	15.0%			\$9,512
Total development cost per mile					\$72,926

Park walking trail class 2 - asphalt (1 mile w/o services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork trail corridor - 8' wide	sq ft	\$0.35	43,040	\$15,064
b	2" asphalt over 4" crushed rock - 5' wide	sq ft	\$1.80	26,900	\$48,420
c	interpretative signs, 4"x4" cedar framed	each	\$200.00	5	\$1,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per mile					\$75,784
f	contingency (design, financing)	8.2%			\$6,214
g	design/engineering fees (const)	12.0%			\$9,094
h	financing costs (design, const)	8.0%			\$7,287
i	contingency (construction)	15.0%			\$14,757
Total development cost per mile					\$113,137

Day hiking trail class 3 - crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 6' wide	sq ft	\$0.35	161,400	\$56,490
b	crushed rock, rolled to 4", 3/8" minus - 4' wide	sq ft	\$0.75	107,600	\$80,700
c	trail directory, 4"x4" cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4" crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8' precast concrete	each	\$156.00	30	\$4,680
i	access road, 2" asphalt concrete/4" crushed rock, 24'x2'	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$188,210
j	contingency (design, financing)	8.2%			\$15,433
k	design/engineering fees (const)	12.0%			\$22,585
l	financing costs (design, const)	8.0%			\$18,098
m	contingency (construction)	15.0%			\$36,649
Total development cost per 5 miles					\$280,976
Prorated per mile					\$56,195

Day hiking trail class 3 - asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 6' wide	acre	\$0.35	161,400	\$56,490
b	2" asphalt over 4" crushed rock - 4' wide	sq ft	\$1.80	107,600	\$193,680
c	trail directory, 4"x4" cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10' wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500

f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$301,190
j	contingency (design, financing)		8.2%		\$24,698
k	design/engineering fees (const)		12.0%		\$36,143
l	financing costs (design, const)		8.0%		\$28,962
m	contingency (construction)		15.0%		\$58,649
Total development cost per 5 miles					\$449,642
Prorated per mile					\$89,928

Day hiking trail class 4 - crushed rock (5 miles w/services)

		unit	unit cost	qty	qty cost
a	clear/grade/earthwork along trail corridor - 5' wide	sq ft	\$0.35	134,500	\$47,075
b	crushed rock, rolled to 4", 3/8" minus - 3' wide	sq ft	\$0.75	80,700	\$60,525
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	5	\$5,000
e	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	2	\$3,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$158,620
j	contingency (design, financing)		8.2%		\$13,007
k	design/engineering fees (const)		12.0%		\$19,034
l	financing costs (design, const)		8.0%		\$15,253
m	contingency (construction)		15.0%		\$30,887
Total development cost per 5 miles					\$236,801
Prorated per mile					\$47,360

Day hiking trail class 5 - compacted dirt (10 miles w/services)

		unit	unit cost	qty	qty cost
a	clear/grade/earthwork along trail corridor - 4' wide	sq ft	\$0.20	215,200	\$43,040
b	finish grade compacted dirt trail - 2' wide	sq ft	\$0.15	107,600	\$16,140
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	40	\$14,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	trash receptacles w/concrete support	each	\$650.00	20	\$13,000
f	restroom facilities, sanican w/concrete platforms	each	\$1,500.00	4	\$6,000
g	parking, 2" asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
i	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 10 miles					\$131,700
j	contingency (design, financing)		8.2%		\$10,799
k	design/engineering fees (const)		12.0%		\$15,804
l	financing costs (design, const)		8.0%		\$12,664
m	contingency (construction)		15.0%		\$25,645
Total development cost per 10 miles					\$196,613
Prorated per mile					\$19,661

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Shoreline hiking trail - access improvements only (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b	landscape/bank stabilization plantings about access s	sq ft	\$2.50	2,723	\$6,806
c	picnic tables and benches, 4"x6"wood beams w/conc :	each	\$1,100.00	3	\$3,300
d	barbecue pits, concrete with iron grill	each	\$300.00	3	\$900
e	trail shelter (10'x6'), cedar pole w/shake roof	each	\$2,700.00	1	\$2,700
f	trail directory signs, 4"x4"cedar pole framed	each	\$200.00	10	\$2,000
g	parking, 2"asphalt concrete/4"crushed rock - 10 space	sq ft	\$1.80	3,000	\$5,400
h	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	10	\$1,560
i	access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.80	2,400	\$4,320
j	restroom facility, sanican w/concrete platform	each	\$1,500.00	2	\$3,000
k	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
Total construction cost per 5 miles					\$35,098
l	contingency (design, financing)		8.2%		\$2,878
m	design/engineering fees (const)		12.0%		\$4,212
n	financing costs (design, const)		8.0%		\$3,375
o	contingency (construction)		15.0%		\$6,834
Total development cost per 5 miles					\$52,397
Prorated per mile/access site					\$10,479

Off-road mountain biking trail class 1 - dirt (10 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 6' wide	sq ft	\$0.20	322,800	\$64,560
b	finish grade bike trail - 2' wide	sq ft	\$0.15	107,600	\$16,140
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	10	\$3,500
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	5	\$3,250
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (20 cars)	sq ft	\$1.80	6,000	\$10,800
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 10 miles					\$123,910
k	contingency (design, financing)		8.2%		\$10,161
l	design/engineering fees (const)		12.0%		\$14,869
m	financing costs (design, const)		8.0%		\$11,915
n	contingency (construction)		15.0%		\$24,128
Total development cost per 10 miles					\$184,983
Prorated per mile					\$18,498

Off-road mountain biking trail class 2 - dirt (20 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 5' wide	sq ft	\$0.20	538,000	\$107,600
b	finish grade bike trail - 1.5' wide	sq ft	\$0.15	161,400	\$24,210
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	15	\$15,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	2	\$1,800
f	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (20 cars)	sq ft	\$1.80	6,000	\$10,800
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 20 miles					\$187,670

k	contingency (design, financing)	8.2%	\$15,389
l	design/engineering fees (const)	12.0%	\$22,520
m	financing costs (design, const)	8.0%	\$18,046
n	contingency (construction)	15.0%	\$36,544
Total development cost per 20 miles			\$280,170
Prorated per mile			\$14,008

Off-road mountain biking trail class 3 - dirt (25 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 4' wide	sq ft	\$0.20	538,000	\$107,600
b	finish grade bike trail - 1' wide	sq ft	\$0.15	134,500	\$20,175
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	25	\$8,750
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	20	\$20,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	3	\$2,700
f	trash receptacles w/concrete support	each	\$650.00	15	\$9,750
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (20 cars)	sq ft	\$1.80	6,000	\$10,800
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 25 miles				\$194,535	
k	contingency (design, financing)	8.2%	\$15,952		
l	design/engineering fees (const)	12.0%	\$23,344		
m	financing costs (design, const)	8.0%	\$18,706		
n	contingency (construction)	15.0%	\$37,881		
Total development cost per 25 miles			\$290,418		
Prorated per mile			\$11,617		

Off-road bicycling trail AASHTO class 1 - crushed rock (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b	crushed rock, rolled to 4", 3/8" minus - 10' wide	sq ft	\$0.75	269,000	\$201,750
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$390,480	
k	contingency (design, financing)	8.2%	\$32,019		
l	design/engineering fees (const)	12.0%	\$46,858		
m	financing costs (design, const)	8.0%	\$37,549		
n	contingency (construction)	15.0%	\$76,036		
Total development cost per 5 miles			\$582,941		
Prorated per mile			\$116,588		

Off-road bicycling trail AASHTP class 1- asphalt (5 miles w/services)

	unit	unit cost	qty	qty cost	
a	clear/grade/earthwork along trail corridor - 14' wide	sq ft	\$0.35	376,600	\$131,810
b	class 2 asphalt 2"crushed rock - 10'wide	sq ft	\$1.80	269,000	\$484,200
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	10	\$10,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900

f	trash receptacles w/concrete support	each	\$650.00	10	\$6,500
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$672,930
k	contingency (design, financing)		8.2%		\$55,180
l	design/engineering fees (const)		12.0%		\$80,752
m	financing costs (design, const)		8.0%		\$64,709
n	contingency (construction)		15.0%		\$131,036
Total development cost per 5 miles					\$1,004,606
Prorated per mile					\$200,921

On-road bicycle touring AASHTO class 2 - bicycle lane both sides (10 miles w/o svcs)

		unit	unit cost	qnty	qnty cost
a	clear/grade/earthwork along road shoulder - 8' wide	sq ft	\$0.35	860,800	\$301,280
b	asphalt, 2"class 1/4"crushed rock - 6' wide	sq ft	\$1.80	645,600	\$1,162,080
c	pavement markings, paint stripes and symbols	lr ft	\$1.00	107,600	\$107,600
d	route directory, steel post w/reflective sign	each	\$100.00	80	\$8,000
Total construction cost per 10 miles					\$1,578,960
e	contingency (design, financing)		8.2%		\$129,475
f	design/engineering fees (const)		12.0%		\$189,475
g	financing costs (design, const)		8.0%		\$151,833
h	contingency (construction)		15.0%		\$307,461
Total development cost per 10 miles					\$2,357,204
Prorated per mile					\$235,720

On-road bicycle touring AASHTO class 3 - road shoulder both sides (10 miles w/o svcs)

		unit	unit cost	qnty	qnty cost
a	clear/grade/earthwork along road shoulder - 6' wide	sq ft	\$0.35	645,600	\$225,960
b	asphalt, 2"class 1/4"crushed rock - 4' wide	sq ft	\$1.80	430,400	\$774,720
c	pavement markings, paint stripes and symbols	lr ft	\$0.50	107,600	\$53,800
d	route directory, steel post w/reflective sign	each	\$100.00	80	\$8,000
Total construction cost per 10 miles					\$1,062,480
e	contingency (design, financing)		8.2%		\$87,123
f	design/engineering fees (const)		12.0%		\$127,498
g	financing costs (design, const)		8.0%		\$102,168
h	contingency (construction)		15.0%		\$206,890
Total development cost per 10 miles					\$1,586,159
Prorated per mile					\$158,616

On-road bicycle touring AASHTO class 4 - in lane (10 miles w/o services)

	unit	unit cost	qty	qty cost
a pavement markings, paint symbols and occasional s	lr ft	\$1.00	107,600	\$107,600
b route directory, steel post w/reflective sign	each	\$100.00	80	\$8,000
Total construction cost per 10 miles				\$115,600
c contingency (design, financing)	8.2%			\$9,479
d design/engineering fees (const)	12.0%			\$13,872
e financing costs (design, const)	8.0%			\$11,116
f contingency (construction)	15.0%			\$22,510
Total development cost per 10 miles				\$172,577
Prorated per mile				\$17,258

Horse trail - separate trail (5 miles w/services)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork along trail corridor - 6' wide	sq ft	\$0.20	32,280	\$6,456
b finish grade horse trail, compacted dirt - 2' wide	sq ft	\$0.15	10,760	\$1,614
c trail directory, 4"x4"cedar pole framed	each	\$350.00	20	\$7,000
d hitching posts, galvanized pipe w/cedar posts	each	\$500.00	10	\$5,000
e trash receptacles w/concrete support	each	\$650.00	4	\$2,600
f restroom facilities, sanican w/concrete platform	each	\$1,500.00	2	\$3,000
g trailer parking, 2"asphalt concrete/4"crushed rock (20	sq ft	\$1.80	10,000	\$18,000
h wheel stops, 10"x6"x8'precast concrete	each	\$156.00	20	\$3,120
i access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles				\$55,430
j contingency (design, financing)	8.2%			\$4,545
k design/engineering fees (const)	12.0%			\$6,652
l financing costs (design, const)	8.0%			\$5,330
m contingency (construction)	15.0%			\$10,794
Total development cost per 5 miles				\$82,751
Prorated per mile				\$16,550

Water trailhead - access improvements for handboat launch and campsite (5 miles w/svs)

	unit	unit cost	qty	qty cost
a clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b landscape/bank stabilization plantings about site	sq ft	\$2.50	2,723	\$6,806
c picnic tables and benches, 4"x6"wood beams w/conc :	each	\$1,100.00	3	\$3,300
d barbecue pits, concrete with iron grill	each	\$300.00	2	\$600
e camp shelter (10'x6'), cedar pole w/shake roof	each	\$2,700.00	1	\$2,700
f camp directory signs, 4"x4"cedar pole framed	each	\$200.00	10	\$2,000
g restroom facility, sanican w/concrete platform	each	\$1,500.00	2	\$3,000
h trash receptacles w/concrete support	each	\$650.00	2	\$1,300
i parking, 2"asphalt concrete/4"crushed rock - 10 space	sq ft	\$1.80	3,000	\$5,400
j wheel stops, 10"x6"x8'precast concrete	each	\$156.00	10	\$1,560
k access road, 2"asphalt concrete/4"crushed rock, 24'x1	sq ft	\$1.80	2,400	\$4,320
Total construction cost per 5 miles				\$34,798
l contingency (design, financing)	8.2%			\$2,853
m design/engineering fees (const)	12.0%			\$4,176
n financing costs (design, const)	8.0%			\$3,346
o contingency (construction)	15.0%			\$6,776
Total development cost per 5 miles				\$51,949
Prorated per mile/access site				\$10,390

Trailhead - w/sanican services

	unit	unit cost	qnty	qnty cost	
a	clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b	landscape/bank stabilization plantings about site	sq ft	\$2.50	2,723	\$6,806
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	2	\$700
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	3	\$3,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
g	restroom facilities, sani-can w/concrete platform	each	\$1,500.00	2	\$3,000
h	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
i	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
j	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$49,038
k	contingency (design, financing)	8.2%			\$4,021
l	design/engineering fees (const)	12.0%			\$5,885
m	financing costs (design, const)	8.0%			\$4,715
n	contingency (construction)	15.0%			\$9,549
Total development cost per site					\$73,208

Trailhead - w/permanent restroom facilities

	unit	unit cost	qnty	qnty cost	
a	clear/grade/earthwork for site improvements	sq ft	\$0.35	10,890	\$3,812
b	landscape/bank stabilization plantings about site	sq ft	\$2.50	2,723	\$6,806
c	trail directory, 4"x4"cedar pole framed	each	\$350.00	2	\$700
d	trail bench, 8"x8"x10'wood beams w/conc support	each	\$1,000.00	3	\$3,000
e	bike rack, prefab galvanized pipe (54 bikes)	each	\$900.00	1	\$900
f	trash receptacles w/concrete support	each	\$650.00	2	\$1,300
g	restroom facility, 4 stalls w/2 sinks	sq ft	\$125.00	500	\$62,500
h	sewer service, 8" side sewer	lr ft	\$17.00	500	\$8,500
i	water service, 8" service line	lr ft	\$15.00	500	\$7,500
j	fire hydrant	each	\$2,675.00	1	\$2,675
k	water meter, 2" size	each	\$4,400.00	1	\$4,400
l	parking, 2"asphalt concrete/4"crushed rock (30 cars)	sq ft	\$1.80	9,000	\$16,200
m	wheel stops, 10"x6"x8'precast concrete	each	\$156.00	30	\$4,680
n	access road, 2"asphalt concrete/4"crushed rock, 24'x2	sq ft	\$1.80	4,800	\$8,640
Total construction cost per 5 miles					\$131,613
o	contingency (design, financing)	8.2%			\$10,792
p	design/engineering fees (const)	12.0%			\$15,794
q	financing costs (design, const)	8.0%			\$12,656
r	contingency (construction)	15.0%			\$25,628
Total development cost per site					\$196,483

Source: Beckwith Consulting Group with Hough Beck & Baird, Landscape Architects

KEY TO INTERPRETING LAND AND FACILITY DEMAND CHARTS

