

## BICYCLE TRACKING SERVICES

### OVERVIEW

Bicycle Tracking Services allows participants, friends and event staff to monitor in real time the whereabouts of any rider on the various courses. Rider performance can be reported in **real time** along any course segment which adds excitement and challenge to the participants. Event staff can utilize the tracking services to move food, water and SAG support where it is needed the most.

1. PhotoCrazy Inc. (PCI) personnel will set up and take down ALL related equipment. PCI provides, sets up and takes down any related tracking signage. There is NO extra work or support expected from the event.
2. ALL riders will be tracked by satellite communication (no cell or internet required)
3. PCI can position up to 8 tracking stations anywhere along the courses
4. Tracking stations work unattended for 20 hours and sense riders from 50 feet away
5. Tracking RESULTS are available to anyone with cell or Internet access in real time (See following pages for examples)
  - a. **RIDER COUNT** will display how many and when riders pass by each station
  - b. **RIDER CHECKPOINTS** will display when EACH rider passes by each station
  - c. Any two stations can be designated as start & end of a **TIMED SEGMENT**

START & END Stations can be setup at the Start & Finish of any course for overall course stats. A straight isolated road segment can be setup as a *Speed Challenge* or at the bottom and top of a climb for a *King of the Mountain* contest. Rider performance is tallied whenever the rider comes along and these **Bicycle Tracking Services** are not considered "racing". "Gun Time" starts are optional. Racing is where riders compete in close proximity and our system avoids and discourages such close proximities.

By categorizing participants into gender, age groups and teams or clubs each rider will see their personal performance within their category. This allows for great satisfaction and enthusiasm among participants.

# Typical RIDER COUNT Report (Viewable during the Event)

- R1 - 5 Miles Santa Rosa Rd All Riders (Speed Challenge Start)**
- R2 - 17 Miles Santa Rosa Rd All Riders (Speed Challenge End)**
- R3 - 39 Miles Hwy 135 Metric & Half Hilly Riders**
- R4 - 41 Miles Drum Canyon Half Hilly (KOM Start)**
- R5 - 43 Miles Drum Canyon Half Hilly (KOM End)**
- R6 - 51 Miles Century Riders (RS#3 Radisson Hotel)**
- R7 - 84/55.5 Miles Foxy Canyon Century/Metric (KOM Start)**
- R8 - 84.5/56 Miles Foxy Canyon Century/Metric (KOM End)**

Here are typical RFID Sensor location (R1-R8) descriptions. We usually provide a detailed [MAP](#) showing courses and RFID Sensor locations.

Updated every 15 minutes - Most current rider count shown on top. Screen refreshed every 30 sec.

Time	R1		R2		R3		R4		R5		R6		R7		R8	
	ALL	NEW	ALL	NEW	ALL	NEW	ALL	NEW	ALL	NEW	ALL	NEW	ALL	NEW	ALL	NEW
18:45:04	2269	0														
18:30:04	2269	0														
18:15:04	2269	0									910	0				
18:00:04	2269	0									910	0				
17:45:04	2269	0									910	0				
17:30:04	2269	0			808	0					910	0				
17:15:05	2269	0			808	0					910	0	1439	0	1445	0
17:00:04	2269	0			808	0					910	0	1439	0	1445	2
16:45:04	2269	0			808	0					910	0	1439	2	1443	2
16:30:05	2269	0			808	0	231	0	232	2	910	0	1437	3	1441	4
16:15:00	2269	0			808	1	231	0	230	0	910	0	1434	11	1437	15
16:00:05	2269	0			807	0	231	0	230	0	910	0	1423	15	1422	14
15:45:05	2269	0			807	0	231	0	230	2	910	0	1408	18	1408	32
15:30:04	2269	0			807	0	231	0	228	0	910	0	1390	46	1376	32
15:15:04	2269	0			807	0	231	0	228	0	910	0	1344	34	1344	55
15:00:04	2269	5			807	0	231	0	228	1	910	0	1310	55	1289	66
14:45:04	2264	0	2259	0	807	0	231	0	227	6	910	0	1255	75	1223	87
14:30:04	2264	0	2259	0	807	0	231	4	221	2	910	2	1180	68	1136	57
14:15:04	2264	0	2259	0	807	0	227	4	219	4	908	0	1112	95	1079	90
14:00:04	2264	0	2259	0	807	3	223	2	215	17	908	0	1017	70	989	85
13:45:05	2264	0	2259	0	804	2	221	7			908	2	947	99	904	93
13:30:04	2264	0	2259	0	802	7	214	15	186	17	906	0	848	97	811	115
13:15:04	2264	0	2259	3	795	7	199	13	169	23	906	0	751	118	696	109
13:00:04	2264	1	2256	0	788	13	186	18	146	14	906	4	633	104	587	111
12:45:04	2263	0	2256	0	775	21	168	27	132	22	902	4	529	100	476	90
12:30:04	2263	0	2256	0	754	34	141	25	110	26	898	8	429	106	386	92
12:15:04	2263	0	2256	0	720	55	116	17	84	23	890	34	323	84	294	86
12:00:05	2263	3	2256	8	665	40	99	18	61	11	856	41	239	82	208	96
11:45:04	2260	0	2248	2	625	42	81	20	50	12	815	38	157	64	112	36
11:30:05	2260	0	2246	3	583	54	61	18	38	6	777	56	93	41	76	45
11:15:05	2260	0	2243	15	529	48	43	6	32	8	721	106	52	26	31	16
11:00:04	2260	4	2228	38	481	63	37	8	24	9	615	115	26	20	15	15
10:45:04	2256	2	2190	81	418	82	29	10	15	7	500	149	6	6		

# Typical RIDER CHECKPOINT Report (Viewable during the Event)

This information indicates when each rider passed each of the checkpoints.  
Multiple passes by a checkpoint are recorded but only the earliest pass is displayed.

RFID#	NAME	R1	R2	R3	R4	R5	R6	R7	R8
14000	Jeffrey Baker	09:30:44	10:48:18						
14001	Becky Hohe-Baker	09:30:43	10:48:18						
14002	James Adams	07:06:48	07:52:42				10:42:33	13:54:44	13:59:30
14003	Ernest Messner	07:36:41	08:37:59	11:35:03					
14004	David Messner	07:36:18	08:37:59	11:35:02	11:59:36	12:27:01			
14005	Kelley Willis	07:18:12	08:10:03				11:17:34	15:26:14	15:32:56
14008	Kerry Dowling	09:35:47	10:24:19						
14009	Dennis Wills	09:28:58	10:25:18						
14010	Tobin Wills	09:28:53	10:25:18						
14014	Rodney Mason	07:37:39	08:25:08	10:30:36	10:47:47	11:15:21			
14016	Michael Dennis	08:26:29	09:21:44						
14017	George Mooradian	07:37:04	08:25:11						
14018	Lynne Mcginley	06:55:44	07:38:32				10:38:22	13:38:36	13:44:28
14019	Susan Ng	07:03:00	07:59:37	10:23:31				12:41:42	12:54:43
14020	Pantele Dembegiotes	08:38:45	09:38:55	12:20:49	12:52:18	13:28:47			
14021	Eleni Roumanas	08:38:23	09:38:48	12:20:47	12:51:55	13:28:39			
14022	Larry Feuerhelm	07:21:43	08:05:37	10:14:28				12:18:36	12:24:48
14023	Jack Nitzsche	07:09:29	07:49:07	09:33:18				11:04:44	11:10:06
14024	Barry Altshuler	06:52:52	07:38:42				11:22:53		
14025	Mario Ordas	09:04:27	09:53:10						
14026	Brian Shea	07:02:05	07:37:56				10:02:29	12:33:45	12:37:57
14027	Harvey Wilds	07:53:06	08:36:18				11:32:33	13:52:05	13:56:38
14028	Julie Wilds	08:27:49	09:17:29						
14029	Kathy Burns	08:14:44	09:07:43	11:13:54				13:31:28	13:36:48
14030	Tom Burns	08:14:38	09:07:50	11:22:52				13:31:30	13:36:17
14031	Michael Pando	08:15:54	09:07:49	11:22:53				13:31:30	13:37:45
14032	Michelle Pando	08:14:44	09:07:43	11:22:54				13:31:28	13:35:20
14033	Luke Castell	06:53:08	07:39:11				10:36:47	14:02:36	14:09:57
14056	John Hess	09:11:49	09:55:39	11:49:30	12:17:34	12:36:42			
14057	Curtis Short	10:00:37	10:33:54						
14059	Jeffrey Nix	06:55:13	07:51:14				10:25:29	13:17:33	13:25:23
14061	Andrew Chang	07:36:17	08:26:04	10:23:45				12:33:36	12:40:16

## Typical TIMED SEGMENT Report (Viewable during the Event)

Rider performance is tallied whenever the rider comes along. Riders DO NOT line up to race against each other and these challenges are not "racing". The performance of each rider is tallied in real time within the individual's Gender and Age category.

RFID#	NAME	START	END	TIME	DIST	SPEED	PLACE	CATEGORY	OVRALL
21785	Amanda Strand	10:37:30	10:47:04	00:09:34	1.4	8.78	1	F10-30	96
21068	Bella Bonvino	15:33:04	15:43:41	00:10:37	1.4	7.91	2	F10-30	156
21268	Lauren Graham	13:02:01	13:12:42	00:10:41	1.4	7.86	3	F10-30	158
21704	Alyssa San Lucas	15:36:43	15:48:03	00:11:20	1.4	7.41	4	F10-30	209
21693	Wylie Rosenthal	12:54:32	13:06:29	00:11:57	1.4	7.03	5	F10-30	253
21721	Sonya Schafer	16:37:00	16:50:07	00:13:07	1.4	6.40	6	F10-30	331
21376	Valerie Jones	14:49:24	15:02:50	00:13:26	1.4	6.25	7	F10-30	355
21321	Olivia Hiles	14:09:32	14:25:47	00:16:15	1.4	5.17	8	F10-30	446
21830	Jessica Uibel	14:33:30	14:52:49	00:19:19	1.4	4.35	9	F10-30	495
21962	LynnAnn Crots	15:18:14	15:27:40	00:09:26	1.4	8.90	1	F21-30	92
21835	Erica Van Den Haak	12:52:43	13:02:02	00:09:19	1.4	9.02	1	F31-40	86
21120	Chinyu Chen	15:06:43	15:17:58	00:11:15	1.4	7.47	2	F31-40	205
21436	Margaret Learmonth	12:54:14	13:06:24	00:12:10	1.4	6.90	3	F31-40	269
21821	Caroline Tran	15:57:42	16:09:52	00:12:10	1.4	6.90	4	F31-40	266
21137	Athena Copenhaver	14:53:02	15:05:44	00:12:42	1.4	6.61	5	F31-40	309
21367	Marjan Javadi	15:19:39	15:33:12	00:13:33	1.4	6.20	6	F31-40	359
21872	Victoria Weeks	11:49:41	12:04:26	00:14:45	1.4	5.69	7	F31-40	399
21348	Rachel Hunter	15:08:52	15:24:51	00:15:59	1.4	5.26	8	F31-40	434
21095	Rachel Burns	15:19:05	15:43:46	00:24:41	1.4	3.40	9	F31-40	544
21242	Christine Gassmann	11:00:52	11:09:27	00:08:35	1.4	9.79	1	F41-50	47
21800	Nicole Tamayo	11:55:04	12:05:36	00:10:32	1.4	7.97	2	F41-50	150
21410	Susan Korbey	12:33:13	12:43:50	00:10:37	1.4	7.91	3	F41-50	155
21147	Brooke Cuper	12:48:22	12:59:14	00:10:52	1.4	7.73	4	F41-50	170
21422	Julie Kuo	12:29:58	12:41:06	00:11:08	1.4	7.54	5	F41-50	195
21520	Hazel Ann Mcgready	13:07:51	13:20:02	00:12:11	1.4	6.89	6	F41-50	271
21053	Katherine Benbrook	14:54:35	15:06:59	00:12:24	1.4	6.77	7	F41-50	288
21649	Kelley Prebil	11:32:10	11:44:35	00:12:25	1.4	6.77	8	F41-50	289
21477	Julie Major	12:47:43	13:00:46	00:13:03	1.4	6.44	9	F41-50	323
21418	Aleks Krotoski	13:38:38	13:52:22	00:13:44	1.4	6.12	10	F41-50	368
21391	Zoe Keller	14:36:08	14:51:03	00:14:55	1.4	5.63	11	F41-50	406
21665	Adrienne Ratner	14:26:46	14:42:22	00:15:36	1.4	5.38	12	F41-50	422
21099	Jennifer Byl	14:26:17	14:42:21	00:16:04	1.4	5.23	13	F41-50	436
21251	Nicole Glentzer	12:06:21	12:22:31	00:16:10	1.4	5.20	14	F41-50	442
21280	Erica Grosjean	15:30:43	15:47:45	00:17:02	1.4	4.93	15	F41-50	461

# TEAM or CLUB CHALLENGES

## Why offer Team or Club Challenges?

Offering Team or Club affiliation during the registration process will boost your ridership.

1. You can offer Team/Club discounts and allow the Team/Club to promote your event from within their organization and make it their Team/Club "Away Ride". Most Team/Clubs have at least one monthly "Away Ride".
2. Team/Club members will feel like winners if their Team/Club places high on the Speed or KOM challenges.
3. Most riders belong to some local Team or Club and they will be more inclined to ride your event if they know other Team/Club members are there.

## How do Team or Club Challenges work?

1. A "Team" or "Club" can consist of any number of people. One person from a team/club through as many as there are.
2. Our data processing would average the **fastest three members** within certain age brackets of a team or club on any of the challenges and label that the TEAM/CLUB time within the designated age bracket. The TEAM/CLUB with the fastest time for a certain age bracket would be the winner but then you also have 2nd, 3rd, 4th, etc. places.
3. The three age brackets are <31, >30 and >50. We do not distinguish gender for team challenges. Many of the ladies will outdo their male counterparts.
4. When there are **fewer than 3 team/club members** we will report the **average of however many there are** representing a team or club. It could be one person from a team or club.
5. So, you may have 20 members of a team but only the 3 fastest will be averaged to represent the team. The other 17 can enjoy in the glory that THEIR team placed 1st, 2nd, 3rd, etc.

It is one more method of making EVERY rider feel like a winner. It is VERY exciting.

# Typical TEAM CHALLENGE Report (Viewable during the Event)

RFID#	NAME	START	END	TIME	DIST	SPEED	PLACE	TEAM	OVRALL
17044	John Hernandez	12:06:32	12:10:03	00:03:31	0.6	10.24	1	XYZ<31	8
17040	Ilia Gur	12:49:47	12:53:31	00:03:44	0.6	9.64	2	XYZ<31	13
17022	William Eccleston	13:13:52	13:17:46	00:03:54	0.6	9.23	3	XYZ<31	17
<b>AVG</b>	<b>XYZ&lt;31</b>	<b>12:06:32</b>	<b>13:17:46</b>		<b>0.6</b>	<b>9.70</b>	<b>1</b>	<b>XYZ&lt;31</b>	
17076	Frank Olagaray	12:31:56	12:35:18	00:03:22	0.6	10.69	1	RUM<31	7
17078	Reuben Peterson	11:23:58	11:27:44	00:03:46	0.6	9.56	2	RUM<31	14
17093	Kevin Smith	13:21:10	13:26:04	00:04:54	0.6	7.35	3	RUM<31	28
<b>AVG</b>	<b>RUM&lt;31</b>	<b>11:23:58</b>	<b>13:26:04</b>		<b>0.6</b>	<b>9.20</b>	<b>2</b>	<b>RUM&lt;31</b>	
17102	Eric Typpo	12:25:45	12:29:17	00:03:32	0.6	10.19	1	LOM<31	9
17123	Alexandra Faria	13:32:39	13:37:30	00:04:51	0.6	7.42	2	LOM<31	26
17122	Jon Dunsdon	13:00:35	13:05:35	00:05:00	0.6	7.20	3	LOM<31	29
<b>AVG</b>	<b>LOM&lt;31</b>	<b>12:25:45</b>	<b>13:37:30</b>		<b>0.6</b>	<b>8.27</b>	<b>3</b>	<b>LOM&lt;31</b>	
17019	Chuck Duchscher	11:23:59	11:27:45	00:03:46	0.6	9.56	1	ABC<31	15
17002	Terry Beatty	13:01:48	13:07:13	00:05:25	0.6	6.65	2	ABC<31	44
17001	Kim Beatty	13:01:44	13:07:32	00:05:48	0.6	6.21	3	ABC<31	50
<b>AVG</b>	<b>ABC&lt;31</b>	<b>11:23:59</b>	<b>13:07:32</b>		<b>0.6</b>	<b>7.47</b>	<b>4</b>	<b>ABC&lt;31</b>	
17126	Glen Millward	12:08:50	12:13:54	00:05:04	0.6	7.11	1	Individual<31	32
17125	Katherine Mashek	12:56:13	13:01:36	00:05:23	0.6	6.69	2	Individual<31	43
<b>AVG</b>	<b>Individual&lt;31</b>	<b>12:08:50</b>	<b>13:01:36</b>		<b>0.6</b>	<b>6.90</b>	<b>5</b>	<b>Individual&lt;31</b>	
17075	Robert Ochoa	13:21:57	13:27:02	00:05:05	0.6	7.08	1	MNP<31	33
17064	Dale Maxwell	11:59:07	12:04:13	00:05:06	0.6	7.06	2	MNP<31	35
17066	Laura Merry	11:25:40	11:32:31	00:06:51	0.6	5.26	3	MNP<31	67
<b>AVG</b>	<b>MNP&lt;31</b>	<b>11:25:40</b>	<b>13:27:02</b>		<b>0.6</b>	<b>6.47</b>	<b>6</b>	<b>MNP&lt;31</b>	
17059	Lance Lester	12:01:12	12:03:29	00:02:17	0.6	15.77	1	MNP>30	1
17053	Kevin Klinefelter	11:49:49	11:52:54	00:03:05	0.6	11.68	2	MNP>30	4
17070	Tim Mueller	12:31:53	12:35:08	00:03:15	0.6	11.08	3	MNP>30	6
<b>AVG</b>	<b>MNP&gt;30</b>	<b>11:49:49</b>	<b>12:35:08</b>		<b>0.6</b>	<b>12.84</b>	<b>1</b>	<b>MNP&gt;30</b>	