

The Weekend at a Glance

Friday	4:30pm-7pm	Packet Pickup	Medical Tent
Saturday	6am	Tent Setup begins. No Friday night camping	Tent City
	6:30am	Packet Pickup, Weigh-In & Timing Chip Pickup	Medical Tent
	7:50am	Pre-Race briefing	Start Line
	8am	6/12/24 hour Start	Start Line
	1pm	Short Course Opens for 6-hour	Short Course
	2pm	Finish for 6-hour	
	2:15pm	Awards for 6-hour	Short Course
	7pm	Short Course Opens for 12-hour	Short Course
	8pm	Finish for 12-hour	
	8:15pm	Awards for 12-hour	Short Course
Sunday	7am	Short Course Opens for 24-hour	Short Course
	8am	Finish for 24-hour	
	8am	Tent removal begins	Tent City
	8:30am	Post-Race Breakfast – All events welcome	Bandshell Stage
	8:45am	Awards for 24-hour	Bandshell Stage

Race Day Issues or Emergencies

Please contact one of these people - usually at the Timing Tent or the Medical Tent

- Bruce Leasure, Race Director
 David Shannon, Race Director
 763-360-5880
- Dr. Ann McIntosh, Medical Director 612-600-8069

New Things for 2024

Road Construction: There is significant construction on interstate 494 at all of the exits used to access Normandale Lake. Keep your eyes open for detours from the normal route. Allow at least 15 minutes of extra travel time.

Required Weight Checks are replaced with **Optional Weight Tracking.** We recommend that all racers enable Weight Tracking by doing the initial Weigh-in. Then if you notice that your body is misbehaving during the event and you stop by the medical tent for advice, the medical staff has another tool at their disposal (checking to see if your weight had a significant change).

Optional Weight Tracking begins with initial **Weigh-in** is at the Medical tent on Saturday morning. Weight tracking provides you and the medical staff with another piece of information about how your condition as the event proceeds. *We recommend weight tracking* for all participants at about 4-hour intervals for the 12-hour and 24-hour events. If you are in the 6-hour event, we recommend weight tracking at 3 hours.

It only takes a few moments to take your weight, and if there is a line and you don't want to rest, just go do another lake lap. We realize that the weights taken during the event are not precise, but since we are screening for large (5%-7%) changes (loss or gain) in weight, the only thing you need to put down prior to stepping on the scale is a water bottle/vest. We will not say your weight out loud, but will show you the weight if you want.

The medical staff uses trends in percentage change in weight and their experience to recognize conditions early on – often hydration, electrolyte balance, or food absorption – and give advice on corrective action. If your weight change approaches 5% (gain or loss), the medical staff will make recommendations to reverse the trend. Please consider their suggestions carefully. If your weight changes by more than 7% (gain or loss), the medical staff will have a more serious discussion with you.

Things every racer should know

Please place your bib number on the front – not on your back and not on the side of your leg. Your human lap counter reads your bib number when you are coming toward them. If your shirt or jacket covers your bib number, please uncover your bib number when you approach your human lap counter at the main timing tent and the short course midpoint.

Write important medical information on the back of your bib with indelible ink: Emergency contact info, drug allergies and preexisting conditions, In the event something happens, this information will assist our medical staff in helping you.

24-hour racers must have a lighting system. Please be considerate of the volunteers when interacting with them after dark – dim your lights.

Race Dates: The first full weekend in June. Friday May 31, 2024 thru Sunday June 2, 2024.

Location: FANS Ultra Races uses the pedestrian path around Normandale Lake in Bloomington, MN. The race goes counterclockwise around the lake.

The path is open to the public during the race. Please be considerate of the public, other racers, and the geese.

Headphones: do not completely obstruct your hearing with headphones. When approaching the main timing tent on Lake Laps, or anywhere on Short Laps, please turn off your music.

Directions & Parking: From either direction on Interstate 494, use exit 8 for East Bush Lake Rd and turn south. Go straight through the stoplights and you will be on Chalet Road, which goes down the west side of Normandale Lake. There is a big parking lot on your right for you to use.

Tent City is directly east of the big parking lot. Please do not pound stakes – hand push only of you must use stakes. There is an irrigation system in the ground.

You may start setting up your tent at the time listed in "The Weekend at a Glance". Your tent should be down before you come to Sunday mornings breakfast.

Medical Tent is directly east of the big parking lot, at the boat launch.

Packet Pickup is in the Medical tent on Friday evening or Saturday morning (see schedule).

Timing Ankle Bracelet Pickup is in the Medical tent on Saturday morning. When you pickup your timing ankle bracelet, immediately place it around your ankle. The timing ankle bracelet enables electronic lap counting.

Please return your timing ankle bracelet after your race is complete. Buckets are available at the main timing tent, at the short laps, and at the Medical tent. Timing ankle bracelets cost \$120 each.

Live Results are provided during the race: <u>https://fansultraraces.org/LiveResults</u>. Your timing ankle bracelet is the link between you and the timing loops, and hence electronic lap counting. There are timing loops around the course enabling us to provide live results for each lap of the Lake Course and each lap of the Short Course. When you complete a marathon on the Lake Course, we record your exact marathon time in the Live Results.

FANS Ultra Races uses a USATF certified course MN19021RR which contains both the Lake Course and the Short Course.

The Lake Course follows the asphalt pedestrian path around Normandale Lake in a counterclockwise direction. If you stay on an asphalt path and keep the lake on your left, you will not get lost. The starting line is adjusted so that completing 100 miles happens at the main timing tent. This makes the first lap of the Lake Course a little bit shorter than subsequent laps. The initial Lake Lap is 1.68 miles. Each Lake Lap thereafter is 1.82 miles.

Please confirm your Lake Course lap count with your human lap counter at the main timing tent on each lap. It is better to correct lap counting problems early.

If you are stop doing Lake Course laps for any reason, please notify your human lap counter at the main timing tent so that we know not to look for you somewhere on the course.

The Start Line is about ¼ mile clockwise around the lake from the Medical tent (north, then east).

The Short Course is just north of the Medical tent. In the last hour of each event (6/12/24 hour), the short course opens. You may use the short course if you want. It is nice to tell your human lake lap counter at the main timing tent that you are going to switch to the short course, but it is not necessary.

- Simply continue counterclockwise around the lake, and you will encounter the middle of the short course. We count the distance from the lake loop lap line to the middle of the short course as your first short lap.
- Continue south 1/16th of a mile to a cone that marks the south end of the short course. Turn around and come back to the middle to complete your second short lap of 1/8th mile.
- Continue north another 1/16th of a mile to another cone that marks the north end of the short course. Turn around and come back to the middle to complete your third short lap of 1/8th mile.
- Repeat the previous 2 steps accumulating 1/8th of a mile each step until time runs out.

Medical Observation of each participant occurs on each lap of the lake (about every 2 miles) as their tent is right on the course, in the middle of tent city. If the medical staff observes unusual or concerning behavior, they will talk with you.

Award Presentation. See the "The Weekend at a Glance" for times and places.

Sunday Breakfast begins at 8:30am on the Bandshell stage. All racers from all events are welcome to attend.

Fundraising is not over at the start line! We encourage all racers, fundraisers, and otherwise to continue to drive donations to the FANS Scholarship Program on race day. Please post a link to your personal fundraising page, or to our general donation page https://fansultraraces.org/Donate . We find that sharing videos gets the best response, so if you are able to take a video (SAFELY!) during the race, please give that a try.

We love seeing our racers having a great day and enjoying some of the extra things that come along with the race such as enthusiastic cheering sections, fun camping sites, live music, and multiple photographers capturing the energy of race day. Please take it all in. ^(C)

Please contact us if you have any questions: info@fansultraraces.org

Risk Factors and What to Watch Out for as a Racer

The FANS Ultra Races is a tough event (physically and mentally), and participation presents many medical risks, several of which can be extremely serious or even fatal. Participate in this event at your own risk. See your physician for a physical exam (including stress EKG) before the race. You must train for ultras and should be knowledgeable about stress factors and effects.

It is important that you recognize the potential physical and mental stress that may evolve during participation in this race. You may be subject to extreme heat and cold, hypothermia, dehydration, hypoglycemia, disorientation, hyponatremia, and total mental and physical exhaustion. You must understand your own limitations, continuously monitor yourself, and know where to draw the line. Adequate physical and mental conditioning prior to the race is mandatory! **Be careful and be responsible.** The ultimate goal, after all, is to become an Old Runner. Some of the risks involved are listed below.

- **Injuries from Falling** can occur from running at the edge of the asphalt path or bumping into someone, or tripping over a dog leash. The course will be shared throughout the race with pedestrians who may not even be aware there is a race going on. Do more than your share to avoid collisions. Exercise more care at night.
- Renal Shutdown (kidney failure) can cause permanent impairment of kidney function and even death.
- Heat Stroke can cause death, kidney failure, brain damage. Be aware of the symptoms of impending heat illnesses which are nausea, vomiting, headache, dizziness, fainting, irritability, lassitude, weakness and rapid heartbeat. Preceding these symptoms may be a decrease in sweating and the appearance of goose bumps on the skin, especially on the chest. Use of some drugs can increase the risk of heat stroke. The faster the pace, the more heat is produced. Train in the heat, wear light-colored clothing and maintain a proper pace. If it is hot on race day, adjust your goals accordingly.
- Effects of Hypothermia (cold) can begin as the evening temperature dips, sometimes into the 50's. This, combined with rain and depleted energy reserves after 12+ hours, makes hypothermia a potentially serious problem. The

major risk is a lowered core body temperature which may lead to confusion and lack of physical coordination. Have access to warm clothes such as sweatshirt, pants, hat, gloves, etc.

- **Dehydration** can lead to many problems, so be aware of your fluid intake and don't rely solely on water. Depletion of salts and electrolytes can lower the digestive system's ability to absorb liquids. Eating, especially salty foods, is part of staying hydrated. FANS will provide plenty of salt at Aid 1 to help you avoid this problem. We recommend you read the new fluid-replacement guidelines for long distance runners issued in April, 2003 by USA Track & Field (USATF). Especially for those completing a marathon in more than four hours, USATF recommends consuming 100% of fluids lost due to sweat while racing, rather than drinking as much as possible. Read the guidelines and related information at https://www.usada.org/athletes/substances/nutrition/fluids-and-hydration/
- Hyponatremia: Low sodium levels (hyponatremia) in ultrarunners have been associated with severe illness requiring hospitalization. It is important to use fluids containing electrolytes to replace the water and salts lost during exercise. DRINKING ONLY WATER IS NOT ADVISABLE, as water intoxication and possibly death may result. This problem may, in fact, worsen after the race, as the non-electrolyte-containing fluid which has been accumulating in the stomach is absorbed. Potassium and calcium replacement is also important, although these levels change less with fluid loss and replenishment. The best way to achieve proper electrolyte and fluid balance is to hydrate with fluids containing proper amounts of electrolytes. Potassium, while present in many electrolyte-replacement solutions, may also be found in fruit, such as bananas or oranges. Beer or other alcoholic beverages should not be taken at any time during the race. Electrolyte-containing fluids should be continued after the race until the gastrointestinal tract is fully functional, which may take several hours. Once the gut is working and adequate hydration has occurred, the normal balance of thirst, hunger, digestion and kidney filtration will maintain the proper balance of fluids and electrolytes.

LISTEN TO YOUR BODY, ENJOY YOURSELF, THE SCENERY and EACH OTHER! HAVE A SAFE RACE!

The Details -- How Things Work

The Start Line is about ¼ mile clockwise around the lake from the Medical tent (north, then east).

All races (6/12/24 hour) Start at 8am Saturday. Please arrive at the start line by 7:50am. This position of the start causes the 100-mile split to be located at the main timing and lap counting area near the bandshell after completing 55 Lake Loop Laps. The initial long lap is 1.68 miles. Each long lap thereafter is 1.82 miles.

Race direction is counterclockwise (keep the lake on the left). At path junctures in the park, always stay on the path closest to the lake. The FANS course will be marked with directional arrows and/or cones. Additionally, there are course location signs every 1/16th of a mile (about 100 meters).

The course is on an asphalt path and has about 25 feet of elevation gain/loss per mile. Most elevation change is subtle, but there are a few sharper inclines and declines, so be prepared for that especially at night.

The park will be open to the public, and you should come to the race expecting to encounter some pedestrian traffic, dog walkers, strollers, and geese. Please remember that we are visitors at this park and do your part to make this Day at the Lake a pleasure for everyone.

This is an urban event with some city-related background light, but *a lighting system with sufficient batteries is* <u>required for nighttime</u>, as most of the course is not lit. Lanterns will be placed on the ground in the darkest areas, but please be self-reliant and plan for nighttime visibility.

We use a dual entry timing system, electronic timing (using ankle bracelets) and manual lap counting. Electronic timing provides the ability for live results to be posted online during the race: <u>https://fansultraraces.org/LiveResults</u>. The two systems are cross-checked during the race to make sure you are credited with all of the laps that you completed.

Be mindful of chip reader locations and make effort to approach, cross, and clear the line by at least 15 feet before stopping. Never cross backwards. One chip reader is located at the Lake Lap line (where lake laps are counted). Another chip reader is located at the middle of the short course (where short laps are counted). There is an additional chip reader at the marathon split point.

The manual lap counting for the Lake Laps is done in the timing tent by our amazing lap counter volunteers. As you approach the tent, the lap counters need to see your bib number clearly. Please make sure your bib is on the front of

your body and will not be obstructed by clothing. If on your shorts or pants, attach it to your right leg, facing forward. If your bib number is obscured by an article of clothing, please show your bib number to the lap counters.

With each lake lap, make contact with your lake lap counter and confirm the number of completed lake laps. If at any time you think that there has been an error, tell your lake lap counter what is wrong, and they will follow up on the issue while you are doing your next lake lap. The key is good communication! This personal form of verification cannot be done on short laps.

During the final hour of all races, the short course will be available to you. The short course is a 1/8th mile segment on the west side of the lake, north of the boat launch. On either end of the short course there is a cone where you turn around, and at the midpoint there is chip reader. Mind the chip reader and pass over it cleanly without stopping. Please notify your Lake Loop lap counter when you decide to move to the short course.

Lap counting for Short Laps is done at the midpoint of the short lap course. Your bib number is recorded when you pass that point in either direction (as you cross the timing loop). Please make sure your bib is on the front of your body and will not be obstructed by clothing. If on your shorts or pants, attach it to your right leg, facing forward.

The 6-hour competitors may begin this short course at 1:00 pm Saturday, the 12-hour competitors at 7:00 pm Saturday, and the 24-hour competitors at 7:00 am Sunday. Most racers choose to do long laps until it is no longer feasible to complete another long lap before the race is done. Reminder, there is no credit for partial long laps – if you aren't sure, move on to the short course.

Any participants who arrive late for the start will be directed to start the race at the same location as the on-time start. Check in at the Medical tent to get you Packet and your timing ankle bracelet. Immediately put your ankle bracelet on. Proceed to the start line (about ¼ mile clockwise from the Medical tent). When you reach the start, turn around and begin your first lake lap by going counter-clockwise around the lake. The time lost by starting late cannot be made up.

Weight tracking is optional this year, but we encourage it for 12-hour and 24-hour racers, and for people new to ultra events. Initial Weigh-in occurs before the race, or on the first lake lap, at the Medical tent. The Medical tent is right in the middle of tent city. We recommend doing it first thing when arriving or just after you set up your camp. If you miss weigh in before the race starts, you need to stop right away after starting the race to get a weight. Our medical volunteers will be looking for you!

The primary aid station (Aid 1) will be located near the bandshell and shares the large tent with Timing. Aid 1 will have an array of beverages and food that will vary with the time of the day: Gatorade, defizzed pop, water, fruit, sweet and salty snacks, and sandwiches, and more. During the evening, we'll have pizza to lift your spirits and soup to nourish you overnight.

The secondary aid station (AID 2) is located near the waterfall in the southeast side of the lake and has a limited selection of drinks. Feel free to take a moment to enjoy the falls from time to time. The course has generous shaded sections along with stretches of unshaded parts.

Medical support will be available throughout the race at the Medical tent on the west side of the lake at the Boat Launch to assist in problems typically associated with ultras.

The FANS race puts safety ahead of records. After dark, you should consider pairing up with another runner/walker or asking a friend to accompany you. The path is not lit and tired racers can be vulnerable. This is why we require a lighting system is required for all racers and friends accompanying a racer.

If a situation arises that make you feel less than safe, let the race directors, the medical director, any lap-counting or aid station volunteer know immediately. Everything possible will be done to correct the situation.

Weather: The normal high and low temperatures for race weekend are 78° and 59°F. (record high: 94° in 1955, record low: 42° in 1934; sunrise is 6:32 am, sunset 7:58 pm). In the 30+ years of the in-person FANS race we've had every kind of unpleasant weather except snow. Even a perfect Minnesota summer evening can quickly turn cold and threatening when one's body is depleted of most of its energy. Eat and drink regularly and be ready for <u>any</u> kind of weather. Hypothermia is not fun, and let's face it, it's *Minnesota*.

Thunder and lightning represent an immediate life-threatening situation to racers, volunteers, and every person at the lake. The Race Directors or an appointee have the authority to suspend or even call off the race for the safety of everyone involved.

If advised to take shelter, do so immediately in one of the following locations.

- Bandshell near the timing tent (preferred location)
- Your vehicle (next best)
- Your tent (last option, not the best)

All announcements pertaining to the resumption or cancellation of the race will be made at the Lake Loop Lap counting tent and at the Medical tent. If/when the race is restarted, it will begin at the Medical tent in a counterclockwise direction. Regardless of the length of the suspension, the end time of the race will not change.

Camping is allowed only in the area labeled Tent City on the map between Saturday at 6:00AM and Sunday at 8:15am. Please take down your camp immediately following the race and before breakfast and awards. Friday night camping is not allowed. <u>TENT STAKES MUST BE PRESSED IN BY HAND</u> AND MUST BE AT LEAST 8 FEET FROM THE SIDEWALK. The park has an irrigation system and we will do no harm if this guideline is followed.

This is a public park and our race area will not be guarded or secured, so we suggest you do not leave valuables in your tent or stowed race gear.

When setting up your tent, please orient your space so it is deep rather than wide. The space along the path is very limited.

NO CAMPFIRES are permitted, but camping stoves or small portable grills are OK. Please be a good Scout and leave your campsite cleaner than it was when you set it up. Thanks!

A "Tent for the Tentless" is available just south of the Medical tent where you may place your belongings if you so choose. We do not want people crossing the road any more than necessary, so please don't use your car as a home base – use the Tent for the Tentless instead.

Who will get the Best Campsite award this year?!?

We need to fill around 150 volunteer slots. If a family member or friend is coming with you and would be available to pitch in, let us know by e-mail or phone before the race or even by contacting someone at the volunteer check-in desk on race day. We *always* need help on the fourth shift, 1:30 am to 8:00 am. Or better yet, please visit <u>https://www.fansultraraces.org/Volunteer/</u> to sign up in advance! All volunteers receive a T-shirt, and prize drawings for a variety of gift certificates and other cool stuff are held each hour.

Awards and Celebrations

Awards Ceremonies are held shortly after the conclusion of each race. The 6-hour and 12-hour awards are presented between the Short Laps Midpoint. The 24-hour awards are presented at the post-race breakfast on Sunday morning.

The post-race breakfast is held at the Bandshell beginning at 8:30am-9:30am on Sunday. All racers, families, crew, and volunteers are invited at no charge. People have asked if we charge for breakfast and we've always had a policy that this is a thank-you to our participants and their friends. However, if someone wishes to make a donation to help defray expenses (and increase the amount given to the scholarship fund), we sure won't say no! <u>https://fansultraraces.org/Donate</u>

We will celebrate the 2024 FANS scholars for whom the race is held. We encourage everyone to come to this post-race event to celebrate the accomplishments of every athlete. Knowing that *everyone* will be tired, we will get started promptly and move along quickly. There will be no long-winded speeches. We promise!

FANS Awards

For the 24-hour event, awards will be given to the top three male runners, top three female runners and the top walker regardless of age or gender.

For the 12-hour race, awards will be given to the top three male runners, top three female runners, and the top walker regardless of age or gender.

For the 6-hour race, awards will be given to the top male and female racers (runner or walker).

In their packets, all participants receive medals for mounting mileage tiles (sent after the race, obviously) and T-shirts.

Director's Awards are given to those adding something special to the race weekend.

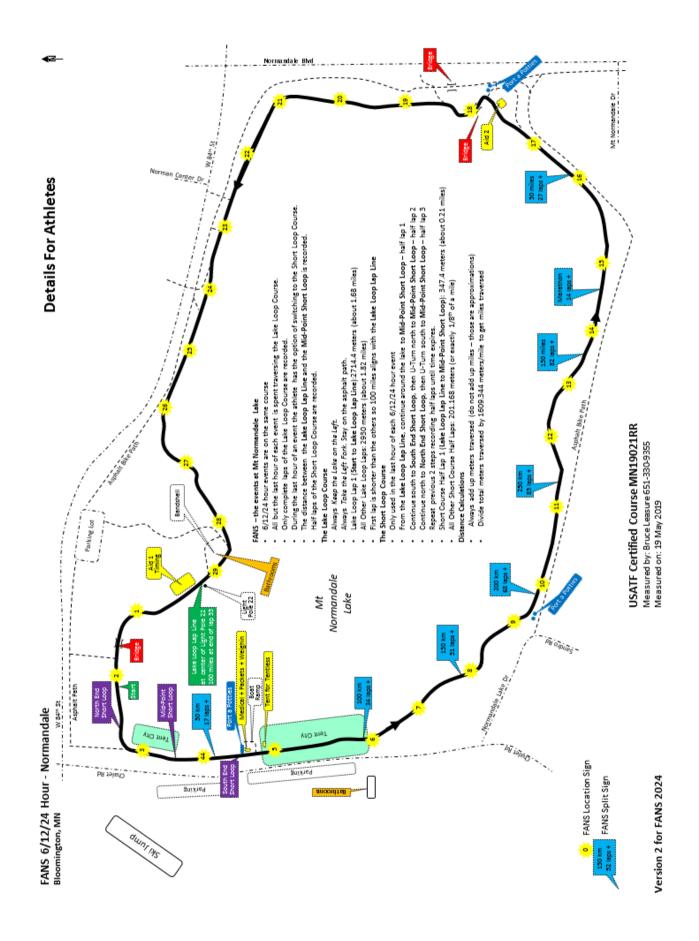
Special awards are given to solo racers who complete more than:

- 100 miles in the 24-hour event or
- 100 km in the 12-hour event or
- a marathon in the 6-hour event

Those reaching 500, 1,000, 1,500, 2,000, 2,500 or 3,000 cumulative lifetime miles at FANS race will receive truly special commemorations.

RRCA MINNESOTA STATE CHAMPIONSHIP 24 HOUR AWARDS

All 24-Hour racers are eligible for RRCA Minnesota State Championship Awards, which includes a RRCA State Championship medal. A total of 8 Awards will be issued for the top male and female in each category: overall, 40+, 50+, and 60+. Only one RRCA award per person.



	Splits	meters	whole laps	plus meters
25	miles	40,234	13	2,144
50	miles	80,467	27	1,357
75	miles	120,701	41	571
100	miles	160,934	55	0
125	miles	201,168	68	1,928
150	miles	241,402	82	1,142
175	miles	281,635	96	355
1	marathon	42,195	14	1,175
50	kilometers	50,000	17	190
100	kilometers	100,000	34	380
150	kilometers	150,000	51	570
200	kilometers	200,000	68	760
250	kilometers	250,000	85	950

Where is my split?

Convert Lake Lap Counts to Distance

Lap#	Miles	КМ
1	1.69	2.71
2	3.51	5.64
3	5.33	8.57
4	7.15	11.50
5	8.97	14.43
6	10.79	17.36
7	12.61	20.29
8	14.43	23.22
9	16.25	26.15
10	18.07	29.08
11	19.89	32.01
12	21.71	34.94
13	23.53	37.87
14	25.35	40.80
14	25.55	40.80
15	29.00	45.75
10	30.82	46.66
18	32.64	52.52
19	34.46	55.45
20	36.28	58.38
21	38.10	61.31
22	39.92	64.24
23	41.74	67.17
24	43.56	70.10
25	45.38	73.03
26	47.20	75.96
27	49.02	78.89
28	50.84	81.82
29	52.66	84.75
30	54.48	87.68
31	56.31	90.61
32	58.13	93.54
33	59.95	96.47
34	61.77	99.40
35	63.59	102.33
36	65.41	105.26
37	67.23	108.19
38	69.05	111.12
39	70.87	114.05
40	72.69	116.98
41	74.51	119.91
42	76.33	1122.84
43	78.15	125.77
44	79.97	123.77
44	81.79	128.70
45		
	83.61	134.56
47	85.44	137.49
48	87.26	140.42
49	89.08	143.35
50	90.90	146.28

	Miles	КМ
51	92.72	149.21
52	94.54	152.14
53	96.36	155.07
54	98.18	158.00
55	100.00	160.93
56	101.82	163.86
57	103.64	166.79
58	105.46	169.72
59	107.28	172.65
60	109.10	175.58
61	110.92	178.51
62	112.74	181.44
63	114.56	184.37
64	116.39	187.30
65	118.21	190.23
66	120.03	193.16
67	121.85	196.09
68	123.67	199.02
69	125.49	201.95
70	127.31	204.88
71	129.13	207.81
72	130.95	210.74
73	132.77	213.67
74	134.59	216.60
75	136.41	219.53
76	138.23	222.46
77	140.05	225.39
78	141.87	228.32
79	143.69	231.25
80	145.52	234.18
81	147.34	237.11
82	149.16	240.04
83	150.98	242.97
84	152.80	245.90
85	154.62	248.83
86	130.44	251.76
87	158.26	254.69
88		257.62
89	161.90	260.55
90		263.48
91	165.54	266.41
92	167.36	269.34
93		272.27
94		275.20
95		278.13
96	174.65	281.06
97		283.99
98	178.29	286.92
99	180.11	289.85

Convert Short Laps to Distance

Lap#

Miles	КМ	Lap#	Miles	КМ
0.22	0.35	26	3.34	5.38
0.34	0.55	27	3.47	5.58
0.47	0.75	28	3.59	5.78
0.59	0.95	29	3.72	5.98
0.72	1.15	30	3.84	6.18
0.84	1.35	31	3.97	6.38
0.97	1.55	32	4.09	6.58
1.09	1.76	33	4.22	6.78
1.22	1.96	34	4.34	6.99
1.34	2.16	35	4.47	7.19
1.47	2.36	36	4.59	7.39
1.59	2.56	37	4.72	7.59
1.72	2.76	38	4.84	7.79
1.84	2.96	39	4.97	7.99
1.97	3.16	40	5.09	8.19
2.09	3.36	41	5.22	8.39
2.22	3.57	42	5.34	8.60
2.34	3.77	43	5.47	8.80
2.47	3.97	44	5.59	9.00
2.59	4.17	45	5.72	9.20
2.72	4.37	46	5.84	9.40
2.84	4.57	47	5.97	9.60
2.97	4.77	48	6.09	9.80
3.09	4.97	49	6.22	10.00
3.22	5.18	50	6.34	10.20