The Book of HURT



2023

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Date / Location

- Saturday, January 14, 2023 (06:00) Sunday, January 15, 2023 (18:00).
- Mountains above the city of Honolulu (island of O'ahu, state of Hawai'i).

Event Overview

- 100 miles over 5 laps (partial out and backs) in a semi-tropical rain forest.
- 24,500 feet of cumulative elevation gain (and 24,500 feet of cumulative loss) over the course of 100 miles.
- 99% single-track trails, 1% asphalt.
- Moderately packed soil, generously interspersed with roots, rocks, puddles, and mud wallows.
- Narrow trails through forest, along exposed ridges, and past vertical embankments.
- 20 stream crossings (four per lap).
- Three aid stations per lap.
- 36-hour time limit.

Important Dates

07/10/2022	Invitations sent to runners who rolled over 2022 entries
07/23/2022	Deadline to accept rollover invitations
07/26/2022	Start of registration period
08/07/2022	End of registration period
08/20/2022	HURT Lottery
08/22/2022	Entrants and wait list posted online
11/12/2022	Deadline for event withdrawal with refund
12/31/2022	End of wait list invitations
01/05/2023	Announcement of runner bib numbers
01/13/2023	Pre-race briefing
01/14/2023	Start of race
01/15/2023	End of race
01/16/2023	Post-race banquet (Location and form of banquet to be decided)



HURT History

The HURT 100 was built on our goal of promoting trail running to the residents of Hawaii, allowing those runners to achieve a qualifying standard for mainland and international races, as well as inviting our mainland and international friends to enjoy our trails.

Sign-up

NOTE: Our registration will now take place on <u>HURT100.com</u>. Our race page on UltraSignup will link to <u>HURT100.com</u>. Please read the instructions below for registration information.

This event is open to participants who are at least 18 years of age. Registration will open on July 26, 2022 and will close at midnight (HST) on August 7, 2022. All interested runners must complete the race application at <u>HURT100.com</u>.

Runners who rolled over their HURT 2022 entry will be sent an invitation to register on July 10, 2022, and must register by July 23, 2022. Rollover slots not accepted by July 23 will be added back to the lottery pool.

After the lottery is conducted on August 23, 2022, and runners are chosen, payment will be processed by UltraSignup. The entrant will be sent a notice from UltraSignup requiring credit card payment. Upon successful processing of the transaction, an applicant is deemed an entrant in the event. If payment cannot be processed for any reason, the applicant has seven days to resolve the problem; after that period, the applicant is replaced by the first wait-listed runner and moved to the end of the wait list.

COVID-19 Considerations

At the time of this writing, most COVID-19 restrictions have been removed. Should COVID-19 and associated restrictions return, HURT will comply with all local and national requirements in place at the time of the event. If any restrictions or special travel requirements are implemented, we will do our best to communicate any ongoing restrictions that might require changes to the event.

Entry Fee

The entry fee for the HURT 100 2023 is \$325 (USD).

Trail Work Requirement

The Trail Work requirement will not be enforced for the HURT 100 in 2023. It will be back for HURT 2024, so plan ahead and complete next year's requirement now.

Entry to the 2024 *HURT 100* will require eight hours of volunteer trail maintenance. Volunteering at an ultrarunning event, or pacing/crewing during an event, DOES NOT fulfill the trail work requirement. Trail work for the 2024 *HURT 100* must be completed between March 1, 2022, and November 15, 2023. Full details of the requirement are on the Trail Work form, found on www.hurt100.com/trail-work/

Entrants not submitting verified trail work forms by the deadline will be removed from the event. Refunds for removed runners will be in keeping with the Refund section below. If a runner is removed for not completing the trail work requirement, a wait listed runner will be selected. The wait listed runner will have seven days to submit the Trail Work form.

All runners entered are encouraged to complete their trail work as soon as possible. If not selected for the lottery, you may potentially be selected off the wait list,

Trail work forms should be submitted to hurt100trailwork@hurthawaii.com

Qualifying Event

The Qualifying Event requirement will not be enforced for the HURT 100 in 2023. It will be back for HURT 2024, so plan ahead and complete next year's requirement now.

To make sure that our entrants have enough experience to attempt our grueling 100-mile race, HURT has implemented the requirement of a qualifying event of a minimum of 50 miles. Any official event of 50 miles or longer is acceptable. This event must have been completed within the two years prior to the opening of registration, from July 26, 2021, to July 25, 2023. It is the responsibility of the applicant to list their qualifying event at the time of application.

Runner Selection – HURT 100

As we continue to grow in popularity, HURT has adapted our selection process to provide the greatest opportunity for the ultimate ultrarunning experience. To meet the needs of our HURT veterans, those wait listed from previous HURT events, newcomers to HURT, and our State and County partners, we have developed the following selection process for entry into the HURT 100.

The HURT 100 will have three lottery categories:

- Veterans up to 18 slots will be allocated to this lottery, which is for anyone who has three or
 more HURT 100 finishes. Applicants will receive one kukui nut for each HURT 100-mile finish for
 the five previous years. If 18 veteran slots are not taken, remaining slots will be rolled into
 "Everyone Else".
- 2. Wait Listed but Never Selected up to 40 slots will be allocated to this lottery, which is for those who have been wait listed from one to three of the most recent HURT 100 lotteries. For the HURT 100 in 2023, that includes the lotteries held for the 2022, 2020 and 2019. To be in this category, an applicant will have applied, but have never been selected for HURT in the past. Each applicant will be given two kukui nuts for each wait listed year in a 3-year rolling window. Wait Listed but Never Selected kukui nuts will be awarded for HURT events in 2019, 2020 and 2022, since HURT 2021 was not held.
- 3. Everyone Else up to 60 slots will be allocated to this lottery, which is for everyone not in the previous two lotteries. This includes entrants who finished HURT one or two times; entrants who were selected but Did Not Start (DNS) or Did Not Finish (DNF); entrants who were selected in a previous lottery but declined entry; and first-time applicants to the HURT 100.

The initial entrant list will include 136 runners, including the reserved slots listed below. HURT has a goal of starting 125 runners (the current permitted limit). HURT has developed the following selection process for the initial 136 entrants, to reflect the goal of making the selection process more transparent to all.

Reserved Slots

HURT has reserved up to 18 of the 136 slots for HURT use:

- 1. HURT immediate previous year (2022) top 3 Male and top 3 Female finishers: Six slots.
- HURT Board Discretion: Ten slots. HURT can use at any time, for any reason that HURT feels can add to the event.
- 3. Peacock Challenge 55: Two slots awarded (one Male, one Female) to finishers on the HURT 100 wait list. If the Peacock Challenge is not held, these will roll over to the Everyone Else category.

CATEGORY	AVAILABLE SLOTS	CADENCE OF PULL
HURT Board Discretion	10	Any time
Previous year top 3 Male/Female	6	Any time
Peacock Challenge 55	2	After Lottery
TOTALS	18	

All runners selected in the above categories must have entered HURT and fulfilled all the entry requirements for the HURT 100. Selected runners will be notified by email from <u>HURT100.com</u> with an invitation to participate and information on making payment. The recipient has seven days to accept and submit payment, and the stored registration activated.

Lottery Process

After the HURT reserved 18 slots, 118 slots remain OPEN for the lottery. HURT will select the following number of applicants from each pool. The selection process will be by separate lottery for each pool.

- 1. 18 HURT Veterans
- 2. 40 Wait Listed but Never Selected
- 3. 60 Everyone Else

CATEGORY	AVAILABLE SLOTS	CADENCE OF PULL
HURT veterans	18	First Pull
Wait Listed but Never Selected	40	Second Pull
Everyone Else	60	Third Pull
TOTALS	118	

NOTE: Due to COVID-19 restrictions in place during 2021, entrants who were selected in the lottery were given the opportunity to roll over their 2022 entry to the 2023 HURT 100. Those rollover entrants will be sent an invitation to participant prior to the lottery, and those accepting will reduce the number of available slots in the lottery.

Kukui Nut Assignment Process

The HURT 100 conducts a weighted lottery. Each entrant may receive additional kukui nuts, which are additional "tickets" in the lottery drawing and increase each entrant's odds of being selected. Kukui nuts are awarded as follows:

- Each qualifying applicant receives one kukui nut for applying
- Applicants who were wait listed in the three previous years and have finished HURT receive one kukui nut for each year on the wait list.
- Applicants who were wait listed in the three previous years and have never finished HURT receive
 two kukui nuts for each year on the wait list.
- Applicants receive one kukui nut for each HURT 100 finish in the five previous years
- Applicants in the Everyone Else lottery with one or two HURT 100 finishes occurring more than five years ago will receive one kukui nut
- Applicants who are Hawaii residents will receive one kukui nut

Conduct of the Lottery

Board members will tabulate the number of kukui nuts allotted to each entrant, based on our historical data and the **data provided by the entrant** during registration. All data are verified through records maintained by the HURT 100. The number of kukui nuts for each entrant will be posted on the HURT website before the lottery so that applicants can check their number of kukui nuts and selected lottery category.

Following the lottery, selected runners will be sent an invoice for online payment by UltraSignup. Runners will have seven days in which to complete payment, at which time they are officially accepted into the HURT 100. If payment is not received after seven days, the selected runner will be removed. To ensure that invitations are received, all registrants are asked to set their email spam filters to accept correspondence from UltraSignup.com.

The lottery will be conducted on August 20, 2022. Information regarding live streaming of the lottery will be published prior to that date.

Wait List

A separate Wait List will be maintained for the following lotteries:

- 1. HURT Veterans
- 2. Wait Listed but Never Selected
- Everyone Else

After entrants are selected in all three lottery categories, the random drawing from the pool of weighted applications will continue, in order to create a wait list for each category. Names will be ranked by the

order in which they are drawn. The three wait lists will be posted approximately three days after the lottery on HURT100.com.

When a runner withdraws from the start list. A runner will be taken from the wait list for the lottery for which that runner was chosen. If a wait list is empty, runners will be selected from the other two lists on an alternating bases, beginning with the "Everyone Else" list.

If an entry slot becomes available, the first runner on that wait list will be notified by email with an invitation to participate. The recipient will also receive an invoice for online payment of the race entry fee and will have five days to accept and pay. If no reply is received, the invitation will be revoked, and the next available wait-listed runner will be notified.

The wait lists will be posted and updated on <u>HURT100.com</u> together with the list of entrants from each lottery. *No invitations to register will be issued to wait-listed applicants after December 31, 2022.*

Withdrawal

Runners should immediately notify the <u>Director of Race Admission</u> of a decision to withdraw from the event. Admitted runners who fail to show up on race day without notifying the <u>Director of Race Admission</u> will be banned from entering the HURT 100 for the next three years.

Transfers / Deferment

Accepted or wait-listed runners cannot transfer entries to other individuals. Entries and entry fees cannot be deferred or rolled over to a future year.

Cancellation of Event

This event is held on public land, under the management of the <u>Department of Land and Natural Resources</u>. As a result, the <u>race directorate</u> does not have the final say as to whether the event will be held, or the course altered. In the event of an emergency cancellation, no refunds will be given.

Refunds

HURT 100 runners are eligible for a refund of \$175 if both of the following conditions are met *on or before* 11/12/2022: a notice of intent to withdraw from the event is sent to the <u>Director of Race Admission</u> and a wait-listed runner accepts the vacated spot. After 11/13/2022, entry fees will not be refunded for any reason and under any circumstances.



Introduction

The HURT Trail 100-Mile Endurance Run, referred to hereafter as the "*HURT 100*", is a very difficult event designed for the adventurous and well-prepared ultrarunner. It is conducted on trails within the jurisdiction of the State of Hawai'i <u>Department of Land and Natural Resources</u> (DLNR), Division of Forestry and Wildlife, <u>Nā Ala Hele</u> program. Nā Ala Hele has turned traces of pig trails through the rain forest into people-friendly, single-track paths. The event organizers are very grateful for the staff's untiring year-round commitment to trail maintenance for all users and help in preparing for this annual event.

A detailed description of the course can be found at the end of this document.

Climate

Temperature

Average Maximum for Honolulu in January – 80.0° Fahrenheit Average Minimum for Honolulu in January – 65.8° Fahrenheit Extreme Daily High for Honolulu in January – 88.0° Fahrenheit Extreme Daily Low for Honolulu in January – 52.0° Fahrenheit

Precipitation

Monthly Mean for Honolulu in January – 3.34 inches

One-Day Maximum for Honolulu in January – 6.40 inches

These measurements were gathered from a weather station at the Honolulu airport (HNL), and do not apply with precision to the rain forest. Participants should expect lower daytime highs and nighttime lows, especially on the exposed sections of Mānoa Cliff and Nu'uanu ridge. Precipitation is higher in the rain forest than in the urban areas of Honolulu and can fall in huge quantities over a brief span of time. Regardless of rain, high relative humidity should be expected.

Illumination

All times are expressed in 24-hour format, pertain to race weekend, and are listed in order of occurrence; dusk and dawn refer to "civil twilight" (sun six degrees below horizon). Times listed are for January 14, 2023.

- Dawn 06:47
- Sunrise 07:11
- Moonrise 01:00 (Jan. 15 moon phase: third quarter, ~54% illuminated)
- Sunset 18:09
- Dusk 18:33
- Moonset 12:43 (Jan. 15)

The dense canopy covering much of the course leads to effectively shorter daylight hours. Even in years with nearly a full moon, the moon will not provide much illumination through the canopy. For the HURT 100 in 2023 moonrise will be late and moon illumination will only be at 54%. Participants should anticipate needing artificial light for longer than indicated by the times listed above.

Altitude / Elevation Change

Over the 100-mile course, the elevation ranges from 300 to 1900 feet. The total cumulative elevation gain is roughly 24,500 feet. For the technically inclined, the GPS sampling interval for this calculation was about 100 meters.

Terrain

The *HURT 100* course consists almost exclusively of technical, single-track trail on surfaces that include roots, rocks, and soil in a wide range of conditions, from sun-baked clay to mud of varying depth. Sudden hairpin turns and steep inclines of up to approximately two miles in length are a common occurrence. Very few sections of the course can be run with a consistent stride for more than several hundred yards at a time.

There is a total of twenty stream crossings. Mānoa Stream and Nu'uanu Stream are each crossed twice per lap at locations close to the Mānoa and Nu'uanu Aid Stations, respectively.

Fauna

Wild pigs roam the trails and are most active at sunrise and sunset. Although they tend to avoid humans, they are temperamental and have dangerous tusks. When encountering a pig, especially a sow with piglets, trail users should avoid sudden or aggressive movements.

Mosquitoes can be present in the wetter areas of the course alongside stream crossings and at some aid stations, especially when there is little air movement. Participants may want to pack appropriate clothing and / or repellant.

Bacteria (including leptospirosis) are prevalent in freshwater streams and ponds found in Hawai'i. Drinking stream water without proper treatment is not recommended. Bacteria can also enter through broken skin.

Race Logistics

Course Markings

Please see Course Description for details on course marking.

Aid Stations

There are three aid stations spaced from 5.2 to 7.4 miles apart: Makiki (located at the Hawai'i Nature Center), Mānoa (located at Paradise Park), and Nu'uanu. All aid stations will be stocked with bottled water, an electrolyte drink, and carbonated beverages. Hot and cold food will be available, with vegetarian options in each category. Food items will include the traditional fare that is provided at most 100-mile runs, as well as a local variation of the standard theme. Runners will be responsible for their own gels, energy bars, electrolyte supplements, medications (e.g., anti-inflammatory products), personal hygiene products (e.g., sunscreen, lip balm), and typical first-aid items (e.g., bandages, blister treatment). Those with strict dietary requirements or special medical conditions are advised to pack needed items in personal drop bags.

Beginning in 2020, the HURT 100 became a cupless race. (Exceptions for hot beverages and for volunteers.)

Drop Bags

Runners may have personal supplies at any of the three aid stations. Each aid station will be visited five times, so attention to resource planning is important. Due to space limitations and to facilitate handling, the size of drop bags is limited, as detailed in Rules.

Toward the end of the event, as aid stations close, race personnel will transfer drop bags from the peripheral aid stations (Mānoa, Nu'uanu) back to Makiki (Start / Finish). Bags of runners who dropped out may be transferred back earlier. Participants are responsible for gathering their drop bags following the event by 18:15 on Sunday, January 15. Any items not collected by then will be donated, recycled, or discarded.

Pacers / Crews

The *HURT 100* is a competitive race for some, a running event for others, but an independent challenge and personal test of fortitude for all. A pacer is a safety companion during the latter part of the event only, not a way to gain advantage over fellow runners. A similar sentiment applies to crews, which are also considered nonessential as ample and regular support is provided by aid-station personnel. *Runners need to be able to carry necessary supplies and maintain forward progress independently, from start to finish.* Note: The ultrarunning community in Hawai'i is relatively small, and pacers may be hard to find locally. Runners are responsible for the conduct of their pacers, regardless of how the latter are acquired.

Awards

Awards (belt buckles) for all 100-mile finishers will be given immediately at the time of race completion.

Four to five selected finishers will be awarded a custom-made / custom-fitted HURT belt to complement their new buckle. Recipients will be announced at the HURT banquet. (Belts for other HURT finishers are available for purchase from <u>California Bohemian Leather</u>.)

The first three finishers of each gender will receive event-specific trophies at a ceremony during the Post-Race Banquet. Runners unable to attend the banquet should note that awards will not be mailed and must be collected locally.

The Aleca and Tonto Award, sponsored by Monica Scholz and Philip McColl: A prize of \$250.00 will be awarded to the fastest male and female finisher in their first 100-mile event.

A prize of \$500.00 will be given for any new course record established in the *HURT 100*. The current records are 19:35 (male) and 24:06 (female).

Parking

Makiki: Parking at the Makiki Aid Station (Start / Finish) is limited; carpooling and arranging rides are recommended. One parking pass will be issued to each runner, which should always be displayed. Runners and crews should use the lower parking lot before the gate. We will once again try to obtain parking at the adjacent Halau Ku Mana School, but this may not be confirmed until just prior to the race. Participants may also park along Makiki Heights Drive but must have all tires off the roadway or risk being towed. Runner or crew vehicles are only permitted above the gate for short periods but must display a valid parking pass. The DLNR has advised race planners that only necessary traffic will be allowed to pass through the front gate after hours (typically sunset to sunrise), as the park needs to be secured. On race day, a parking attendant will direct drivers prior to the start. Note: There are several private homes along the roadway leading to the Makiki Aid Station. Travel and noise (e.g., conversations, closing of car doors and trunks) should be kept to the absolute minimum, especially during nighttime and early morning hours.

Mānoa: The Mānoa aid station is located on the Paradise Park grounds. Paradise Park, including the parking lot, are private property. A \$7 parking fee (subject to change) applies per day. Free street parking is available around the end of Mānoa Road, 5 – 10 minutes by foot from the aid station. If parking on Mānoa Road, do not block neighborhood driveways. *Due to traffic and parking congestion on the first loop, no crews are permitted at this aid station until after 10:45 AM on Saturday.*

Nu'uanu: There is no crew access to the Nu'uanu aid station. <u>Nu'uanu Pali Drive</u> is a narrow road adjacent to the aid station that offers extremely limited parking, available only to volunteers with special permits. Pacers starting at Nu'uanu should be dropped off, or take Uber, Lyft, or taxi. Crews showing up at Nu'uanu could result in runner disqualification.

All Locations: Trailheads are notorious for vehicle break-ins. Participants are strongly encouraged to avoid leaving valuables in their cars. Note that vehicles must have all four wheels off the road (asphalt surface) to avoid ticketing or towing by the police.

Race Photography

Race Management does not contract professional photographers for this event but will attempt, on a besteffort basis, to obtain volunteer support for this task from the local community. When available, a <u>race</u>
<u>photographer</u> will be named. The best places to see a runner and capture photographs are near aid
stations. Those who venture onto the course are asked to exercise caution and respect the environment.
Many spectators who take pictures share them through the <u>HURT 100 website</u> (contact the webmaster
through the link provided on the site to have photos posted).

Lodging

For assistance with lodging, participants may contact the <u>Hawai'i Visitors and Convention Bureau</u> - Hawai'i Tourism Authority.

Safety / Medical Concerns

Participants have voluntarily entered an event which requires a significant amount of mental and physical preparation. In addition, the race involves inherent risks ranging from the known (e.g., terrain, 100-mile course) to the unknown (e.g., "acts of God"). Runners and pacers should ensure adequate medical coverage in the event of mishap during this event.

COVID-19 Health and Safety Procedures

The HURT 100 may implement COVID-19 health and safety procedures that could affect runners, crews, volunteers, and the overall conduct of the race. These procedures will be published as the race date approaches. At a minimum, procedures will meet the guidelines of the State of Hawaii, City and County of Honolulu, and our insurance carrier, but may go beyond those minimums at the sole discretion of the Race Directorate.

Medical Personnel

Although event personnel will make all efforts to provide aid within their capabilities, medical staff may not be available to take care of participants. Each aid station is located within a 5-mile radius of a major medical center.

Cell Phone Coverage

Cell phone service is available on parts of the course but can range erratically from adequate coverage to none at all. Quality and reception will also vary among cellular phone carriers. Carrying a whistle is recommended for both runners and pacers.

Accidents

If a runner gets hurt on the trail, he or she should stay put, keep warm, and remember that this is a multiple-lap, out and back course. Other runners or the HURT Patrol will direct event personnel to the incident location or assist in another manner. Similarly, if a runner gets lost, he or she should stay on the trail and wait. Wandering aimlessly, especially at night, reduces the chance of being found.

Dehydration

One of the most common medical problems for endurance athletes is dehydration. This is especially relevant for the *HURT 100* as conditions on the course can be hot and humid. Each runner is solely responsible for monitoring his / her hydration level; race officials will not be weighing participants. Runners should leave each aid station with a minimum of 32 ounces of water, with 64 ounces being highly recommended.

Hypothermia

Hypothermia may pose a threat at night, especially if it has rained, as temperatures can drop below 60 degrees Fahrenheit. Sections of the course along ridges and cliffs, including Mānoa Cliff Trail and Nu'uanu Trail, are extremely exposed and can be very windy and wet.

Road Crossings

On each lap, runners must make two road crossings. One of them involves following a narrow road for approximately 100 yards. Runners must use extreme caution when running across or along roadways. Crossing roads safely is solely the responsibility of the runner.

Terrain

Participants will be running on technical trails where footing is adequate at best. If it rains (which is common), there can be an abundance of mud. Attention to the terrain underfoot and directly ahead is critical in this event. Some trails are located adjacent to cliffs with extreme drop-offs.

Of the two stream crossings, one is short and non-technical, involving wood planks not far from the Mānoa Aid Station. The other is technical and requires runners to cross Nu'uanu Stream on scattered and slippery rocks, near the Nu'uanu Aid Station. Runners may get wet feet when crossing this stream. If the water level is high, the course may be rerouted. Runners will be notified of any course changes at the Pre-Race Briefing.

Lighting

As no part of the course (except for the aid stations) is lit, and very little moonlight penetrates the forest canopy, race participants will need artificial light at night. Runners (and pacers) are reminded that daylight hours are shorter in the forest than in the open. Participants should carry backup batteries and lights and keep extras in drop bags. *Aid stations are not stocked with batteries for runners to use.*

Hiking Poles

Poles are permitted on the course. For safety reasons, those with poles should yield the trail to other runners.

Headphones

Use of any device that impairs the senses is discouraged for safety reasons. Runners wearing headphones are asked to remove them when near aid stations to facilitate communication with event personnel.

Noise

Use of bells and other devices emitting sound is discouraged out of respect for other trail users seeking a wilderness experience.



I. Introduction

HURT 100 Rules are designed with the following goals in mind:

- A. The safety, enjoyment, and well-being of everyone involved in the race, including runners, pacers, crews, volunteers, neighbors, race personnel, spectators, and others using the trails ("the public").
- B. The staging of a fair and sportsmanlike event that is solely based upon individual effort.

Failure to comply with rules and procedures may result in disqualification of Runner. Depending upon severity of the offense, Runner can be disqualified for this race and future HURT sponsored events. Additionally, the race directorate may refine, generate, or reinterpret a rule at any time if doing so is deemed necessary to promote our goals. At all times, the intent and spirit of the rules will govern how they are implemented and enforced by race officials (e.g., Race Directorate, HURT Patrol, Aid Station Captains). By attending this event as Runner, Pacer, or Crew, each participant acknowledges and agrees with this sentiment.

II. All Participants

- A. Courteous behavior and sportsmanlike conduct are always expected.
- B. Sharing the trail: *HURT 100 participants do not have exclusive use of the trails.* These paths are well used by the public. Caution should be exercised when approaching casual hikers (and their pets). Runners should warn others of their approach and, when in doubt, yield.
- C. HURT 100 participants do not have exclusive use of public toilets or drinking fountains at the Makiki Aid Station. These should be used with care, keeping in mind that they are shared with hikers and the public.
- D. Mālama 'āina (care for the land).
 - The rain forest is fragile and subject to damage simply by being trod upon. Runners and pacers are expected to stay on the trail at all times.
 - 2. Littering on the course is grounds for immediate disqualification. Littering is contrary to land use ethics and affects HURT's ability to hold future events. Note: Dropping waste twenty yards, or more, from any aid station is considered littering.
 - 3. The *HURT 100* course lies within watershed areas that supply a significant amount of potable water for residents of Oʻahu. Participants should use the restrooms available at Makiki (Start / Finish), and the portable toilets at all aid stations.

- E. Muling is not permitted. Runner must carry all of his or her supplies into, out of, and between aid stations, at all times.
- F. Runner's lighting system is to be used for personal illumination of the trail only. Pacer may not deploy lighting systems to illuminate the trail for Runner except temporarily in case of an emergency.
- G. Short roping of Runner, by tether or connected body parts, is not permitted. Runner must complete the course under his or her own power without being pulled, pushed, balanced, towed, carried, supported, or physically guided over the course.
- H. Stashing of supplies is not permitted at any time or place on the course. This includes leaving water bottles on out and back sections of the course, even during the event itself (a form of littering). Stashing supplies is considered littering and is grounds for immediate disqualification.
- I. Aid from Crew or Pacer may ONLY be given at official aid stations.
- J. Crew and Pacer may not retrieve bottles from Runner for filling *until within the confines of the aid station*, and the runner must be carrying bottles when leaving the confines of the aid station.
- K. Aid-station resources and supplies are intended for runners and pacers. In the unlikely event of a shortage, runners have priority.
- L. Smoking is not permitted on the trail or at aid stations. Smoking is strongly discouraged at any location where runners, pacers, crews, and race personnel congregate.
- M. Consumption of alcoholic beverages and illegal substances on any part of the course is prohibited.
- N. Dogs are not allowed anywhere on the course, and their presence is discouraged around aid stations for safety and sanitary reasons. Dogs brought to the event must be under control and leashed at all times.
- O. All participants must obey City and County of Honolulu regulations, with special attention to those that involve parking and driving.

III. Runners

- A. Runner is responsible for knowing ALL rules and procedures.
- B. Runner is responsible for the actions of his / her Pacer(s) and Crew. Any rule transgression by Runner, Pacer or Crew can be grounds for either immediate or post-run disqualification.
- C. Runner must pick up bag on Friday at the Mandatory Runner Registration.
- D. Runner must check in on race morning prior to starting the race to receive running bib and be an official participant.
- E. Drop Bags

- 1. Runner's drop bag of personal supplies at any one aid station must not exceed the following dimensions: 18" high, 18" wide, and 24" long.
- 2. Drop bags are to be brought to the event start (Makiki) on Saturday morning at 04:45.
- 3. To be accepted, bags must be clearly marked with three items on a waterproof label.
 - Location: Mānoa, Nu'uanu, or Makiki (i.e., Start / Finish)
 - Runner name
 - Runner bib number
- F. Runner bib numbers must be worn on the front and NOT be folded. This is to ensure they are visible and that runners are properly identified at aid stations.
- G. While accepting supplies on rare occasions from another runner is tolerated, multiple such instances may be interpreted as muling.
- H. *No course cutting.* Runner must follow the marked course at all times. If Runner departs from the official course, Runner must return to the point of departure on foot before continuing onward.
- Artificial systems devised to cool Runner (cooling vests or similar), are not allowed to be used or worn while forward progress is being made.
- J. If Runner undergoes an infusion of intramuscular / intravenous / subcutaneous fluids of any type (except for prescription medication) during the race, immediate disqualification will occur.
- K. Race officials reserve the right to remove runners from the course who are deemed incapable of continuing safely.
- L. **Runner must check in at every aid station** for reasons of safety and timekeeping / tracking. It is every runner's responsibility to make sure their time is logged in at each aid station.
- M. Runner exceeding one hour in an aid station must report it to the timer.
- N. Runners dropping out during the event must inform a race official. If Runner retires without doing so and fails to show up at the next aid station, officials may notify Honolulu Fire Department Search and Rescue (SAR). Runner may be held responsible for the cost of a frivolous SAR operation.
- O. Cut-off times will be strictly enforced. Runner must not continue after exceeding a cut-off time.

 Race staff will make every attempt to shuttle Runner back to the Start / Finish (Makiki) if this occurs. Note: The official race time clock is managed by race timers and corresponds to satellite time.
- P. The short boardwalk at Pauoa Flats (Roots) is not to be used by the Runner on any loop, and this area will be marked with blue tape.

IV. Pacers

- A. Pacer must review and be familiar with ALL rules and procedures.
- B. Pacer may start accompanying Runner after 60 miles or beginning at 17:00 on Saturday, whichever comes first.
- C. Pacer must start pacing duty at one of the three aid stations.
- D. Only one pacer is allowed to accompany a runner at a time.
- E. Pacer may only receive aid at the three official aid stations.
- F. Pacer may assist Runner in the aid station but may not enter the checkpoint ahead of Runner or depart after Runner for this purpose.
- G. If Pacer falls out of visual distance from Runner for longer than dictated by the course, Runner may continue without Pacer, but Pacer must exit the course at the next aid station.
- H. Race officials reserve the right to remove pacers from the course who are deemed incapable of continuing safely.

V. Crews

- A. Crew must review and be familiar with ALL rules and procedures.
- B. Crew members may not consume supplies provided at aid stations, including food.
- C. Crew may only park in authorized areas.
- D. Crew may only support Runner and Pacer within 100 yards of an aid station, and not on the course.
- E. On Saturday, crews are not allowed at the Mānoa Aid Station before 10:45, to avoid crowding.
- F. NO crews are allowed at the Nu'uanu Aid Station, at any time.

Personnel / Contact info / Roles

Event Personnel

Race Directorate

Executive Director John Salmonson

Executive Director PJ Salmonson

Race Directorate, Race Day Jeff Huff

Race Directorate Carl Gammon, Freddy Halmes,

Stan Jensen, Marian Yasuda

Director of Race Admissions Carl Gammon

Start / Finish Line Coordinators John Salmonson, Stan Jensen

Jennifer-Anne Meneray

Makiki Aid Station Captains Steve Villiger, Rosie Warfield

Nu'uanu Aid Station Captain Freddy Halmes

Mānoa Aid Station Captains Marian Yasuda, Neal Yasuda

Roving Aid Station (Infrastructure)

Scot Kuwaye, Rod Huddleston

Trail Maintenance Manager Freddy Halmes

Trail Marking Coordinators Freddy Halmes, Mauricio Puerto

Mandatory Runner Registration Melanie Decker Koehl

Medical Advisors Sarah McIntosh, Dr. Jim Budde

Volunteer Coordinator Marian Yasuda

HURT Patrol Coordinator Jeff Fong

Race Awards PJ Salmonson, Rex Vlcek,

Marian Hawkins

Donor Liaisons Jacki Doppelmayer, Sandi Kanemori

Webmaster Augusto Decastro hurt100.com

Race Day Webcast Operator <u>UltraSignup.com</u>

Race Registrar <u>HURT100.com</u>

Race Book Editor Carl Gammon

Race Photographer Augusto Decastro

Advisory Committee Vernon Char, Jennifer-Anne Meneray,

Stan Jensen

Contact Information

General Questions

Contact Us

Jeff Huff

Email Jeff

Carl Gammon

Email Carl

Marian Yasuda

John Salmonson

Email John

PJ Salmonson

Email PJ

Role Definitions

HURT Patrol

Patrols will be on the course to monitor progress of runners, assist during emergency situations, assess course conditions, refresh course markings, and prevent / report rules violations. Members of the HURT Patrol serve as extensions of the race directorate. As such, they are authorized to warn runners, pacers, and crews of any violations and advise them to correct transgressions.

Aid Station Captain

Aid Station Captains plan and organize aid stations, as well as supervise their setup and disassembly. During the event, they direct volunteers and oversee operations related to runner support and safety. Aid

Station Captains serve as an extension of the race directorate. As such, they are authorized to warn runners, pacers, and crews of any violations and advise them to correct transgressions.

EVENT SCHEDULE

Date	Time	HURT 100 Event ¹	Location
Friday, January 14	13:30 - 15:30	Mandatory Runner Registration	Makiki
66	14:30 - 15:30	Mandatory Pre-Race Briefing	Location TBD
Saturday, January 15	04:45	Mandatory Runner Check-in	Makiki
66	05:30	Drop Bag Collection	66
и	06:00	Race Start	e
Sunday, January 16	18:00	Race End	66
Monday, January 17	17:00 - 21:00	Post-Race Banquet	Location TBD

Mandatory Runner Registration: Runners are to pick up runner bags. The location for bag pickup is to be determined. Runners should not bring drop bags to any of the events scheduled for Friday (they will be collected on Saturday morning).

Mandatory Pre-Race Briefing: Distribution of information including logistics / course updates, safety, and other topics, in addition to an optional question and answer session. The location of the Pre-Race Briefing is still to be determined.

Mandatory Runner Check-in: Runners need to check in prior to the start of the race in order to receive the runner bib and be officially recognized. Times will only be kept for official runners.

Drop Bag Collection: The official and only occasion that drop bags are collected for distribution to the Mānoa and Nu'uanu aid stations occurs at the Makiki aid station immediately after Runner Check-in.

Post-Race Banquet: As of this writing, plans for the post-race banquet are still being formed. HURT is actively working on all options and will publish banquet and ticket information as plans are confirmed.

We fully hope to return to the fun filled evening of race awards, roasting of runners, and mingling with friends old and new. Once plans are announced, early purchase is strongly recommended as we tend to quickly fill to capacity.

CUT-OFF TIMES / AID STATION CLOSURES

Runners are allotted 36 hours to finish the 100-mile event, from 06:00 on Saturday, January 15 to 18:00 on Sunday, January 16. Cut-off times pertain to the fifth lap (Miles 80-100). Runners must *check out of* each aid station by the time listed in the chart below or drop out of the race. Checked-out runners returning to aid stations after the listed times must exit the race or face disqualification. In general, aid stations close fifteen minutes after the cut-off times.

Date	Time	Event	Location	Mile "Marker"
Saturday, January 15	06:00	Course Start / Opening	Makiki	0
Sunday, January 16	11:00	Cut-off #1	Makiki	80
ű	13:30	Cut-off #2	Mānoa	87
u	13:45	Mānoa Aid Station Closure	и	-
и	15:30	Cut-off #3	Nu'uanu	92.5
u	15:45	Nu'uanu Aid Station Closure	и	-
u	18:00	Course Finish / Closure	Makiki	100
u	18:15	Makiki Aid Station Closure	и	-



The *HURT 100* course consists of five identical 20-mile laps on trails connecting the Mānoa, Makiki, and Nu'uanu Valleys. A leg of this lap is defined as the connection between any two aid stations.

The route is marked with surveyor's tape in three different colors (white, lime green, and orange), one for each of the three legs. On out and back sections of the course, runners will encounter ribbons in two different colors. Blue tape indicates shortcuts and trails that are not part of the course. At night, glow sticks may be placed at critical turns.

A brief description of the ordered sequence of trails that make up the *HURT 100* course is given in the following table: prominent natural or man-made landmarks are mentioned as well.

At any time, the course may be altered at the race directorate's discretion.

Trail Sequence Table

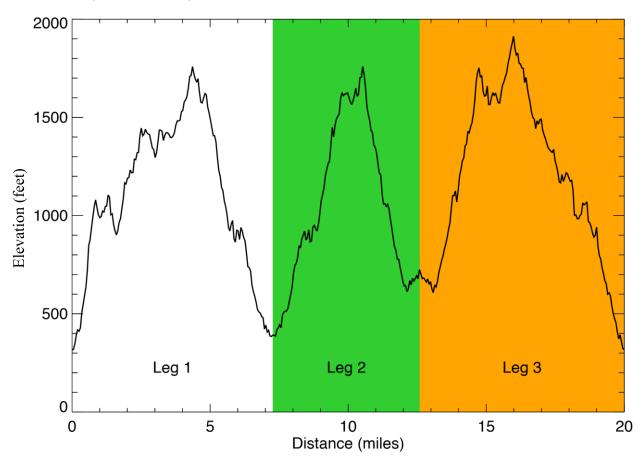
Leg #1 White Tape	Leg #2 Lime Green Tape	Leg #3 Orange Tape
Makiki Aid Station	Mānoa Aid Station	Nuʻuanu Aid Station
(Across bridge onto) Maunalaha Trail	(Straight on short, paved section to) Mānoa Falls Trail	(Straight and across) Nuʻuanu Stream
(Straight and down) Makiki Valley Trail	(Left and up) 'Aihualama Trail [Mānoa Falls just ahead]	(Right onto) Judd Trail
(Straight past Kanealole Trail junction / then right onto) Nahuina Trail	(Left onto) Pauoa Flats Trail	(Right and up) Nu'uanu Trail [Bien's Bench is at the top of Nu'uanu ridge]
(Across road and right, along short section of) Tantalus Drive	(Right onto) Nu'uanu Trail [Bien's Bench is at the top of Nu'uanu ridge]	(Right onto) Pauoa Flats Trail
(Left onto) Kalāwahine Trail	(Left onto) Judd Trail	(Straight and up, onto) Mānoa Cliff Trail [through two gates]
(Right and up) Mānoa Cliff Trail	(Left and across) Nu'uanu Stream	(Straight across Round Top Drive onto) Moleka Trail
(Left onto) Pauoa Flats Trail	(Straight to) Nu'uanu Aid Station	(Right onto) Makiki Valley Trail (then right again to continue on) Makiki Valley Trail
(Right onto) 'Aihualama Trail		(Left and down) Kanealole Trail
(Right and down) Mānoa Falls Trail [Mānoa Falls just to the left]		(Right and down) Maunalaha Trail
(Straight on short, paved section to) Mānoa Aid Station		(Across bridge to) Makiki Aid Station

Course Map

An overview of the *HURT 100* course can be found on the following pages, where the outline of the three legs of the course as well as relevant landmarks are shown overlaid on the Nā Ala Hele trail map. A more accurate rendering of the course based on GPS data can be accessed online through <u>Google Maps</u> as well as in the form of a <u>KMZ file</u> to be opened with <u>Google Earth</u>.

Runners should print the course map and carry it during the event. Course maps are not provided.

The elevation profile for one lap of the HURT 100 course is shown below



Leg 1: Makiki to Mānoa

Leg 2: Mānoa to Nu'uanu

Leg 3: Nu'uanu to Makiki

