

2019 World Jet Boat Championship

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**ADVANCED
PROGRAM**





Welcome to the **2019 World Jet Boat Championship**, presented by the Western Zone Racing Association and sanctioned by the Canadian Boating Federation and the Union Internationale Motonautique, with the support of the Grande Prairie River Rats, Peace River Boating Association, B.C. Peace Country River Rats and the Whitecourt Riverboat (1982) Association.

The race will be held from July 11–21, 2019. Racing will take place throughout Alberta and British Columbia, Canada on many rivers, such as the Athabasca, Peace, Smoky, Wapiti, and Pine. A full race itinerary is attached.

REGISTRATION

A copy of the registration form is attached to this advanced program and is posted on the Outlaw Eagle Forum at www.outlaweagle.com. The form can also be requested from Dale Whiteside, Race Chairman (dwhiteside@outlaweagle.com), 2019 World Jet Boat Championship Facebook page, or email penny@bardaequipment.com for more details.

The entry fee per boat is \$1400.00 CAD and includes 4 meet and greet banquet tickets in Whitecourt and 4 awards banquet tickets. Cheques shall be made payable to "Western Zone Racing Association". Pre-registration forms will be accepted by email or mail to: 2019 World Jet Boat Championship Visa, Master Card or Debit will be accepted for pre-registration or on the day of registration.

Mail to: 2019 World Jet Boat Championship
c/o Outlaw Eagle Mfg.
141 Poplar Ridge Road
Red Deer County, AB, T4S 0K6

The race will kick off with registration and a Meet & Greet Banquet at the Whitecourt Curling Club on Thursday, July 11 at 5:00 pm. Roll bar camera orientation hosted by Velocity Video is during the Meet & Greet. For drivers and navigators who do not hold a current immersion training certificate, training will be available from noon to 5:00 p.m. on Thursday, July 11, 2019, in Whitecourt - see page 8 for more info.

Race boat tech will take place at River Boat Park, Whitecourt, AB from 9:00 am to 11:00 am on Friday, July 12, 2019. Race Opening Ceremonies will be held at 12:00 pm on Friday, July 12, hosting many dignitaries from the region.

Time trials will be held from 1:00 p.m. until approximately 10:00 pm. Time trials are for starting position lane choice on Saturday, July 13, 2019. Time trials are to be a maximum of 4 miles, are not mandatory and will not be included in your overall time. The fastest boats from the time trials will be given preference when choosing lanes for the circuit race on July 13, 2019. Race captain will have the final decision on who is placed in the other heats based on times. All boats that choose not to participate in the time trials, your lane choices will be drawn at the driver's meeting on Saturday, July 13, 2019. Details regarding how the time trials will be run will be given at Friday's Drivers meeting (11:00 a.m. Friday July 12, 2019) and lanes will be awarded and drawn at the Drivers meeting at 8:00 a.m. on Saturday, July 13, 2019.

The compulsory Boat Show is from 3:00-7:00 pm on Friday, July 12, and all racers must be in attendance during this time.

The first Drivers meeting will be 11:00 am, Friday, July 12, 2019 on the boat ramp at Whitecourt River Boat Park.

All other Drivers Meetings will be 1 hour prior to each race leg, unless mentioned at a Drivers meeting earlier that day. UIM rule 900.9.2—204.03

Please email boat pictures and profiles PRIOR TO MAY 1, 2019 for the program to Penny Batt at penny@bardaequipment.com

Awards Banquet ticket sales will be held during registration and at various times throughout the race.

WORLD RACE CONTACTS:

Dale Whiteside	DaleWhiteside@outlaweagle.com	403-357-9969
Tim Greber	aquaholic146@live.ca	780-831-5240
Penny Batt	penny@bardaequipment.com	780-831-4214

RACE FUEL DISTRIBUTORS

AMS Engines	Edmonton	780-454-4411
Alberta Fuel Distributors	Edmonton	1-800-926-3835
Compression Technologies	Fort St. John	250-261-0100
Max Fuel Distributors	Whitecourt	780-778-2346
Outlaw Eagle Mfg.	Red Deer	403-347-4565
Max Fuel Distributors	Peace River	780-624-3003
Whitecourt Airport	Rotaiva Aircraft Service	780-778-8654
Grande Prairie Airport	Happy Gas Inc.	780-532-2878
Peace River Airport	Northern Air Charter	780-624-1911
Fort St. John Airport	Steve Hessel	250-329-6990

Fuel is not supplied for this race and must be bought and transported by each team.

PRIZE MONEY

\$50,000.00 Prize Money

\$10,000.00 allotted per class for 1st, 2nd, & 3rd places. "U", "U-Spec", "A", "CX", and "FX" (unless more than 9 boats in a class)

- 1st 50% of class prize money
- 2nd 30% of class prize money
- 3rd 20% of class prize money
- 4th place if 9 – 13 boats in class (\$1000.00 if required)
- 5th place if 14 boats or over in class (\$1000.00 if required)

UIM medals for 1st, 2nd, & 3rd place in UIM classes.

Overall trophies for 1st, 2nd & 3rd place. (no prize money at this time)

Canadian CDN1 trophies for 1st, 2nd & 3rd place. (fastest Canadian racer with NO DNS)

Additional awards throughout the race at each town.

2019 RACE ITINERARY

Day	Date	Town	Event/Leg	Time	Distance	
Thursday	July 11	Whitecourt, AB Curling Club	Capsule Training, <i>TBA</i>	12:00-5:00 pm		
			Welcome Meet & Greet	5:00 pm		
			Registration	5:00-8:00 pm		
Friday	July 12	Whitecourt, AB River Boat Park	Tech	9:00-11:00 am		
			Drivers Meeting	11:00 am		
			Opening Ceremonies	12:00 pm		
			Time trials	1:00-10 :00 pm		
			Boat Show & Shine	3:00-7:00 pm		
Saturday	July 13	Whitecourt, AB Class 1 River	Drivers Meeting	8:00 am	45 miles	
			Circuit Races	9:00 am		
Sunday	July 14	Peace River, AB Class 1 River	Drivers Meeting	9:00 am	45 miles	
			Circuit Races	10:00 am		
Monday	July 15	Peace River, AB Class 3 Rapids	Drivers Meeting	9:00 am	44 miles	
			Peace River ⇌ Watino Bridge	10:00 am		
			Drivers Meeting	12:00 pm		
			Watino Bridge ⇌ Peace River	1:00 pm		
Tuesday	July 16	DAY OFF RACING				
Wednesday	July 17	Grande Prairie, AB Class 1 River	Drivers Meeting	9:00 am	40 miles	
			O'Brien Park ⇌ Wapiti Gardens	10:00 am		
			Drivers meeting	1:00 pm		
			Wapiti Gardens ⇌ O'Brien park	2:00 pm		
Thursday	July 18	Grande Prairie, AB Class 1 River	Drivers meeting	8:00 am	63 miles	
			O'Brien Park ⇌ McLeod Flats	9:00 am		
			Drivers meeting	1:00 pm		
			McLeod Flats ⇌ O'Brien Park	2:00 pm		
Friday	July 19	DAY OFF RACING				
Saturday	July 20	Taylor, BC Class 1 River	Drivers Meeting	8:00 am	30 miles	
			Taylor ⇌ Happy Hour	9:00 am		
			Drivers Meeting	10:30 am		
			Happy Hour ⇌ Taylor	11:00 am		
			Drivers Meeting	1:00 pm		
			Circuit Races	2:00 pm		
Sunday	July 21	Taylor Class 1 River	Drivers meeting	9:00 am	36 miles	
			Circuit Races	10:00 am		
		Fort St. John, BC Curling Club	Awards Banquet			Total: 528 miles
			Doors Open	6:00 pm		
			Supper	7:30 pm		

RACE CLASSES & CLASS RULES

Bratt Jet "Unlimited" Jet Class

- Hull any shape.
- Unlimited engine restrictions or modifications, any exhaust c/w mufflers
- Jet Engines do not require mufflers
- Propulsion – jet drive
- Roll bar (well mounted & braced) NO aluminum.

Outlaw Eagle "Unlimited Spec" Jet Class

- Hull any shape.
- Engine displacement shall not exceed 570 cubic inches (9400 cc)
- Iron Block with maximum deck height of 9.800"
- Conventional valve angle heads no less than 24 deg. With a maximum of 0.800" valve opening
- Cast single carb intake manifold with maximum carb size of 1050 cfm-throttle plate size of 2.00"
- Maximum compression ratio of 10.5 to 1
- Or AMS 565 Spec engine
- **No Oxygenated Fuel Allowed**
- Exhaust - any exhaust c/w mufflers
- Propulsion – jet drive
- Roll bar (well mounted & braced) NO aluminum.
- These boats will be registered in Unlimited Class and placed in a separate class (Unlimited Spec) for timing and racing purposes they will qualify for the overall UIM title only.

Weaver Group "A" Jet Class

- Hull any shape.
- Engine displacement shall not exceed 470 cubic inches (7700 cc)
- Superchargers, blowers & turbos are allowed at 1.8 x cubic inch ratio
- Oxygenated Fuel Allowed
- Exhaust – any exhaust c/w mufflers
- Propulsion – jet drive
- Roll bar (well mounted & braced) NO aluminum.

Dakota Contracting "CX" Jet Class

- Hull any shape.
- **Stock Crate Engine** shall be GM LS3 Engines 376ci CT525
- GM #19259233/525 Fuel Inj., GM #19271821/525 Carb
- GM #19301360/525 Fuel Inj., GM #19271821/525 Carb
- GM #19244549/480 Fuel Inj., GM #19171225/515 Carb
- Any carburetor, or fuel injection engines, normally aspirated only
- Stock crate intake manifold with no modifications
- Repaired engines must use GM parts pertaining to that engine.
- any oil pan (no dry sumps or vacuum pumps allowed) any valve covers, any ignition or distributor
- **No** overbore, no sleeves, no grinding, no cutting, no filing, no milling, no porting, no balancing or engine modifications allowed, no valve seat modification, untouched factory heads only
- Modified cooling systems allowed, air/water bleed ports, can be enlarged or added, with or without water pump.
- Exhaust – any exhaust system allowed c/w mufflers
- **No Oxygenated Fuel Allowed**
- Propulsion – jet drive
- Roll bar (well mounted & braced) NO aluminum.

MD of Greenview No. 16 "FX" Jet Class

- Hull any shape.
- No Glass Windshields
- Engine – GM ZZ4 355 HP **CRATE** engine GM part number 24502609 c/w stock GM intake or GM ZZ5 CRATE engine GM part number 19301294 c/w stock GM intake
- ZZ6 part number 91351533, or ZZ6 EFI part number 19368149, or CT400 part number 88869604
- Repaired engines must use GM parts pertaining to that engine.
- No sleeves, no milling, no roller rockers allowed, No porting, no polishing, no grinding, no cutting, no filing, no balancing, no port matching or modifications, no valve seat modifications, untouched factory heads only.
- any ignition system, any oil pan (no dry sumps or vacuum pumps), any valve covers
- Carburetor – 750 CFM maximum & 1" spacer thickness maximum 3 only 0.060 gaskets
- Exhaust – any exhaust system allowed c/w mufflers
- **No Oxygenated Fuels Allowed**
- Propulsion – jet drive
- Roll bar (well mounted & braced) NO aluminum.

Club Class - there is NO club class. These boats must have an FX legal engine to race in FX class or must enter A class and meet the A class rules and closing times.

RULES

It is emphasized that the following rules are designed to protect administrators, entrants, their boats and crews from any adverse situation they are likely to encounter as a result of their participation in jet boat river racing. However, since no sets of rules are entirely comprehensive, decisions taken by organizers and the jury will be based on these rules tempered by a desire to ensure that success results from fair racing, superior speed and skill.

All competitors, their support team, and officials involved in the event are expected to conduct themselves in a professional and acceptable manner while the event is "in progress". It is assumed that this is from the moment they arrive for pre-running until they leave following the conclusion of the event.

Areas for testing/practice will be made available during the duration of the event. These will be notified to competitors by way of the information pack that will be supplied to them on acceptance of their entry. It is stressed that all local bylaws relating to the use of waterways are to be abided by at all times. It is the competitor's responsibility to be aware of such requirements. Race boat testing within any city limits are only allowed between the hours of 8:00 am and dusk, ONLY.

This championship shall be governed by the Circuit Rules 2019 Edition of the Official Rule Book provided by the Union Internationale Motonautique, unless otherwise noted and specifically addressed in this Advanced Program.

This wording will apply in place of 900.1.5

In order to contend for the UIM awards and or trophies, and prize money, the winner, and second and third place getters of each racing class must have completed race legs with a minimum total distance equaling 75% of the actual event distance.

For the overall class and prize money they must have completed 100% of the distance and raced legs. There will be an Overall Winner (first, second and third places), they will be the boats which start and finish all the legs within the legs closing time, under their own power, and they do it in the least amount of time, regardless of their class.

The Overall Title – in which their boat must start and finish every leg under its own power, and within the prescribed allowed time. The winner will be the entrant with the lowest elapsed time, irrespective of class entered. Boats subject to DNF/DNS penalties may continue to compete for class placing.

402 International Jury

- Each country participating should submit a representative to the jury. In addition, a race representative from each of the 5 race classes will be elected at the driver's meeting July 12, 2019 at 11:00 am at the Whitecourt Riverboat Park. A representative driver or navigator representing each country from each country participating will be utilized.

203.03 Entry Fee

- Entry Fee for all participants will be \$1400.00 in Canadian Funds Only. No foreign cheques will be accepted.

202.02.25 Race Fuel

- There will be no race fuel supplied by the race committee, no fuel transportation restrictions

202.02.22 Protest Fees

- All protest fees will be \$800.00 CASH in Canadian Funds Only

900.9.13 Engine Replacement Rule B

- 15-minute penalty, any team changing an engine during the course of the marathon without showing catastrophic failure & not receiving prior approval from the race officer of the day will be disqualified. The boat will not be out of the overall competition.
- Any repairs to FX & CX Class engines must use GM parts
- All engines will be marked by tech inspector after registration

109.01 National Authority Licence

- All race drivers must produce a national authority licence or letter from their national authority

205.01 Medicals

- All race drivers must submit a national authority medical at the time of race registration

205.02.03 Drug Testing

- All race drivers must submit a clean five panel drug test at race registration. Test results must be valid within 30 days of registration.
- In the event of an incident, drug and alcohol testing will be mandatory for all drivers.
- There will be a location posted in Whitecourt that this testing can be completed within 3 days of the race. Straight Arrow in Whitecourt can do this test (780) 706-4237. You must book an appointment.

205.02.02 Alcohol Testing 900.9.4

- Random alcohol tests will be performed during the race & suspensions will be issued after 0.03 alcohol level

205.05 Immersion training **** NOTE ****

- Racers must supply a Certificate (no more than 14 months old). We will have testing available, starting at 12:00 pm July 11th. A helmet and life jacket will be supplied. If you require a very large helmet or life jacket you must supply your own. Location and details to follow closer to date.

900.6.c Flags

- Black Flags are not allowed in Race Boats

900.9.17 - 206.02 Race Numbers

- All race numbers must be a minimum size of 30 cm or 12" x 4 cm or 2" white on black or black on white with a 4 cm or 2" border in contrasting color. All race numbers must be clearly visible and pre-approved by the race chairman. Racers may be asked to change their numbers prior to racing if they are hard to read from 100 meters.
- All Class Letter must be ½ the size of the race number in the same coloring as the race numbers, not to overtake the race number.

900.6.o

- GPS are allowed to be used during the race but only by the Navigator. The GPS must be under 5" diagonally and must be mounted on the navigators' side or in control of the Navigator at all times.

900.15.2 Roll cages – **new UIM rule ** NOTE ****

- An open river cockpit that meets or exceeds these specifications must be fitted to all inboard Race Boats.

The intention of these minimum specifications is to provide the best possible protection to drivers and navigators, NO guarantee is implied or stated, nor is any responsibility taken, regarding the degree of protection or safety afforded by any roll cage construction to these specifications.

1. Only round chrome moly tube (SAE 4130) minimum diameter 45mm (1.75"), wall thickness 2.1mm (.080) or (1.75") DOM tubing (1018 to 1026) with a minimum wall thickness 2.6mm (.100"). **Aluminum is NOT permitted.**
2. Attaching plates should be a minimum of 5mm (.188") thick steel or chrome moly.

All Unlimited, Unlimited Spec, and A Class boats must meet these specifications precisely as written above. It is recommended that all CX and FX Class boats follow this rule as well but consideration will be given to an equivalent or stronger design.

All joints must be fully welded by a competent welder and remain unground using the correct welding process for the material. A triangulated main hoop is required. A minimum of one hoop in front of the passengers to the dash is required. Faster boats should have an upper and lower front hoop. There should be a bar connecting the center of the front hoop to the top center of the main hoop and 2 rear arms to the gunnels or transom. The main hoop of the cage must be one piece and may not be repaired by splicing, patching, cam-shelling, etc. All other components may be repaired by splicing, patching, clam-shelling, etc. according to generally accepted aircraft repair procedures.

Seat and seat belt mounts should be mounted to the cage. Seats should have side head support.

Safety Equipment

- All racers must wear fire protective clothing, Helmets, Hans style device, Lifejackets, and seat belts at all times racing and testing. Between July 11th and July 21st.

205.07 Helmets

- 50% of race helmets must be a bright color. NO white grey or black or dull colors.

900.6.j Hans Style Devices **** NOTE ****

- Restrained drivers must use a Frontal Head Restraint (FHR) that satisfies SFI 38.1 or FIA 8858 standards

900.8 Inspections

- All winning boats will have their engines inspected upon race completion. CX & FX Classes will have to remove 1 cylinder head as directed by the chief inspector. See tech requirements on page 11.
- All engines will be marked at the start of the race. Turbines will have the compressor section and the PT section marked.
- At race completion all "U" U-Spec, A, CX & FX class boats will be inspected at THE BOAT LAUNCH/ramp and directed to the tech area as determined by the race captain.
- **Random motor inspections will take place at any time during the race.**

900.9.1. b) Staging Area

- All boats must be off-step in the marked staging area 10 Seconds prior to start. Part of the boat must be inside the staging area. No running on plane starts. Running late starts are allowed if it is after your start time and is at minimum planing speed. The safety of other staging boats is the priority. You may NOT start on someone else's 10 second staging time. Rule 900.11.12 will apply.

900.5.5 Crew

- The minimum age of a crew member is 18 years, for younger crew-members (16 years or older), they can race only with a written authorization from their parents and/or guardians.

All Canadian racers & crew members must have Canadian Boating Federation memberships for insurance purposes and are available for purchase at registration.

All race officials must be Canadian Boating Federation members.

All race boats must display UIM, CBF, Overall & class sponsorship decals which be given at registration.

All paperwork must be completed at registration prior to tech inspection. A tech inspection pass will be issued once all items are finalized.

Classes with fuel restrictions will be subject to random fuel testing.

All boats should have an onboard style camera. Memory cards will be asked for by a race official in case of a protest or incident

Starting Order

- At the drivers meeting on July 13, 2019 at 8:00 a.m., all race starting positions/lanes will be chosen in order of the fastest qualifying times from the previous day. It will be raced in Classes with the fastest boats given preference when choosing lanes for the circuit race on July 13, 2019. Details in this regard will be given at the first drivers meeting.
- For the following legs & lanes boats will be starting in overall position. In Circuit legs boats will race in their respective classes with the boats with the quickest overall time having lane choice (lane 1 closest to timers)
- On river legs (not circuits) for the second leg of the day, boats will start in order of finish from the previous leg.
- There will be NO mass starts on river legs.

All boats must remain in their assigned starting lane for approximately of 250 meters from the start line unless stated otherwise at the driver's meeting. A 2-minute penalty will be issued for un-sportsman like conduct for impeding other racers in the first 250 Meters.

2019 WORLD JET BOAT CHAMPIONSHIP TECH REQUIREMENTS

Classes with fuel restrictions will be subject to random fuel testing.

There will be random checks for engine marks at any time during the race.

Tech procedures for the 2019 World Jet Boat Championship:

1. Immediately upon loading after last leg in FSJ, the top 4 winning boats from all classes will be directed to a quarantine area and then to a designated shop for tech inspection;
 - A) U class boats will have their engines inspected for the markings that are installed at the start of the race;
 - B) A class and U-Spec classes will have their CID measured and engines inspected according to their class rules;
 - C) CX and FX class boats will have:
 - i) Intake, 1 cylinder head, and valley cover removed;
 - ii) Cam lift, duration and timing checked;
 - iii) Head, valves, springs and head gasket thickness checked; NO aftermarket springs, valves, bolts or head gaskets allowed;
 - iv) Oil pump volume checked, if suspect, further disassembly as required;
 - v) Cylinder wall bore size checked, factory piston check, IF suspect, further disassembly as required, check ring gap and piston clearance
 - vi) Make sure all other rules as stated in the UIM 2019 rule book are adhered to (i.e. no aftermarket parts, grinding, honing, etc.);
 - vii) In the case of piston failure where a light hone is required to smooth out any small cylinder wall nicks to accommodate a required piston change will be allowed;
2. Any boats that are deemed to have any of these infractions, disqualification from the 2019 World Jet Boat Championship.
3. Disassembly and reassembly are up to the boat owner and race team.

2019 WORLD JET BOAT CHAMPIONSHIP: RACE BOAT CHECK LIST

Race _____ Class _____ Date _____

Boat Number	
(2) Paddles/Oars	
(1) 50' Rope with Float Device ½" or Synthetic Cable	
Race Supplied Decals Overall, Class, UIM, and CBF.	
(1) 16"X 24" Red Flag	
(1) 16"X 24" Yellow Flag	
(1) First Aid Kit	
(1) Tool Kit c/w Tools	
(2) 2.5 lb or (1) 5 lb Minimum Certified (1yr) Fire Extinguisher	
(2) Racing Life Jackets c/w Leg Straps	
(2) Helmets-Dot, Upper ½ Bright Color	
(2) Forward Head Restraints-Hans Style Device	
Fuel Tanks Secure & Grounded	
Bulkhead/Guards (if Rotating Parts Reachable when Belted in Seat)	
Throttle Return Spring,	
Blower Fan (Enclosed Engines Only)	
Whistle	
Bail Bucket	
Flame Arrestor / Air Breather	
Battery Disconnect – 3" Red Triangle Sign Accessible to Racing Crew	
Fire Retardant Clothing	
Water Outlets- Horizontally or Downward	
Stop Watch	
Roll Bar Steel or Chromalloy. With Front Hoops. Well Mounted and Braced	
Steering Cables-Center of Hull or Securely Anchored	
Mufflers (Turbines Not Required)	
5 Point Seat Belts with Quick Release & Tether Connection Between Belt Releases	
Cutter for Seat Belts, Taped to Dash	
Engine Restraints- If 3 Point Mounts on Pump	
(2) Mirrors (Rear View)	
12"X 2" Boat Number/Class Letters	
Boat Driver's License (National Authority)	
GPS Hand Held or Nav-Side Mounted 5" Screen (Diagonally)	
Boat Captain's Initials	

Race Captain _____ Race Technical Inspector _____

2019 WORLD JET BOAT CHAMPIONSHIP

141 Poplar Ridge Road
Red Deer County, AB, Canada
T4S 0K6

SEND Entry To: Mail to above address or email to penny@bardaequipment.com
Registration: July 11, 2019 5:00 pm to 8:00 pm at Curling Club
Tech Inspections: July 12, 2019 9:00 am to 11:00 am at River Boat Park
Whitecourt, Alberta, Canada

Drug Test: A clean five-panel drug test must be supplied by all race boat drivers within 30 days of registration

Medicals: A valid medical must be supplied at registration for Driver (three years)

Mail in cheque payable to **“Western Zone Racing Association”** (Canadian Funds no foreign cheques accepted)
Visa and MasterCard accepted.

CLASS & BOAT # _____

BOAT NAME _____ COUNTRY _____

HULL MAKE _____ LENGTH _____

ENGINE MAKE _____ DISPLACEMENT _____ HP _____

DRIVER _____ ADDRESS _____

DRIVER'S PHONE - CELL _____ EMAIL _____

NAVIGATOR _____ CELL _____

CREW _____ CELL _____

PLEASE SEND BOAT PICTURES & PROFILES FOR PROGRAM

Deadline for the program – May 1, 2019 email pictures & profiles to Penny Batt penny@bardaequipment.com

ENTRY FEE – All Race Classes - **\$1400.00 PER BOAT CDN**

SANTIONED BY THE UIM & CBF

SHOW & SHINE and DRIVERS MEETING on July 12, 2019 **MANDATORY** for all race entries

FINAL AWARDS BANQUET in Fort St. John, BC on July 21, 2019 7:30 pm SUPPER

Please purchase all extra banquet tickets at registration.

4 Meet & Greet Supper Tickets & 4 Awards Banquet Tickets are included with the Entry Fee.

Race Fuel Not Available from Race Association.
