



Amateur Radio Public Service Events

Presented by: Brett Neilson (KC7IIB)
November 2011



What is a public service event

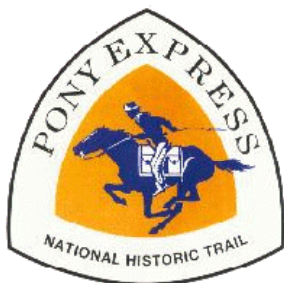
- Any event that involves the public
 - Run
 - Rides
 - Walks
 - Parades



Who do we serve?



Medical/Research Organizations
City/County Municipal Governments
Civic Organizations
Various Athletic Events
Our community



100 MILE ENDURANCE RUN
From East Mountain Wilderness Park
To The Homestead

(The Toughest Footrace You'll Ever Love)





Why Public Service Events?

- What are you doing regularly to practice for an emergency?
 - How many times did you activate this year?
- What are you doing to give back to our community and spread the good words of Amateur Radio?



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License WY-CMA039-B

License

Item Description	Salt Lake City-Ogden, UT
Market	CMA039
Frequency Block	B
Bidding Units	825,000
PWB Amount	\$55,556,000
PWB Round	26
MAB	\$58,334,000

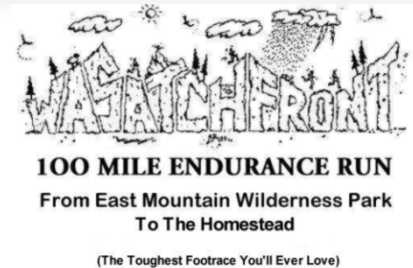
**Over \$55 Million for
704-710 and 734-740 MHz
In the Salt Lake area**

Recent History

Items 1-5 of 5

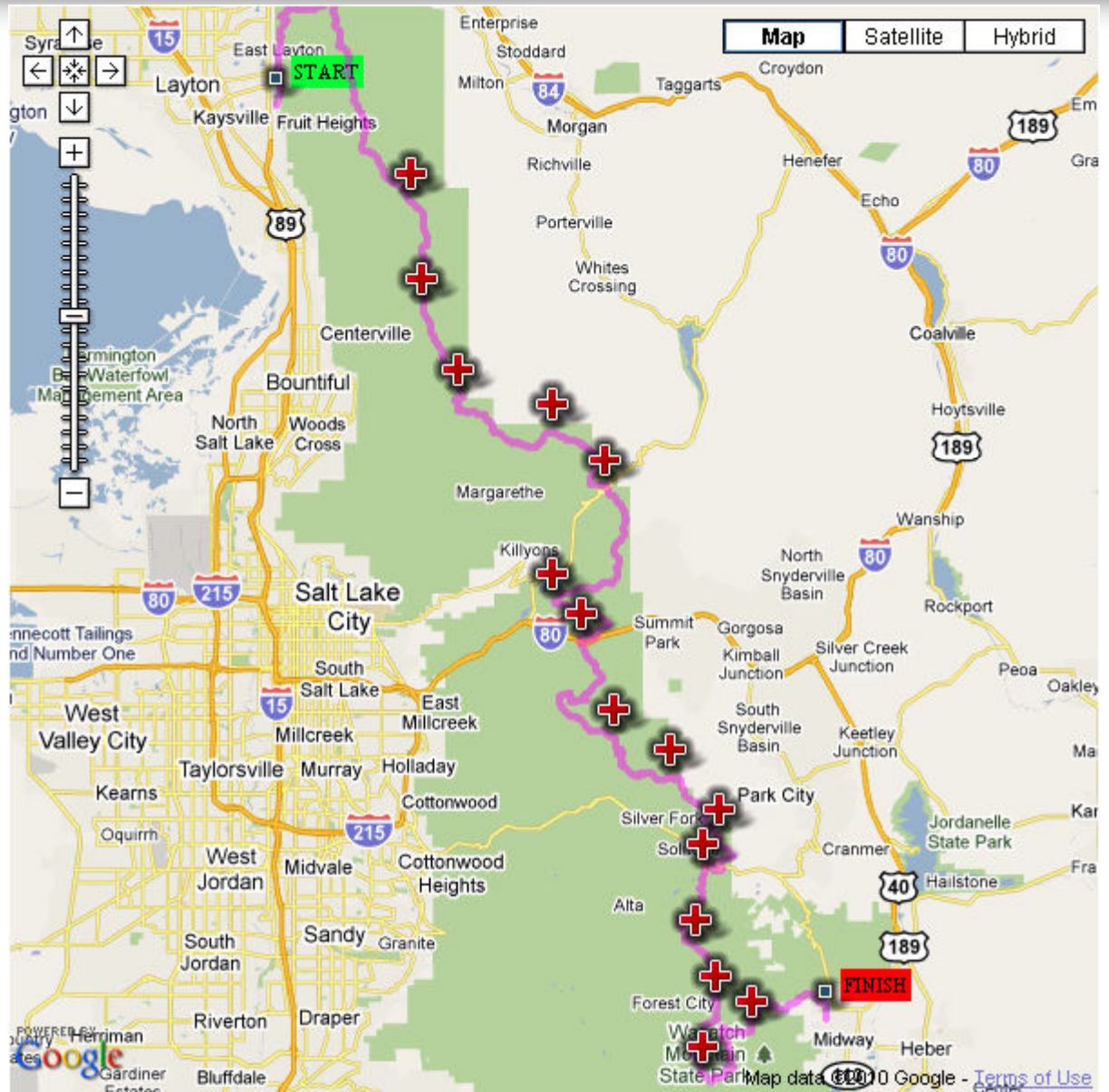
Round Number ▼	Bid Amount	Bidder Name	Status
26	\$55,556,000	AT&T Mobility Spectrum, LLC	SUBMITTED
25	\$50,505,000	Cellco Partnership d/b/a Verizon Wireless	SUBMITTED
24	\$45,913,000	AT&T Mobility Spectrum, LLC	SUBMITTED
23	\$41,738,000	Cellco Partnership d/b/a Verizon Wireless	SUBMITTED
22	\$37,940,000	AT&T Mobility Spectrum, LLC	SUBMITTED

Wasatch100



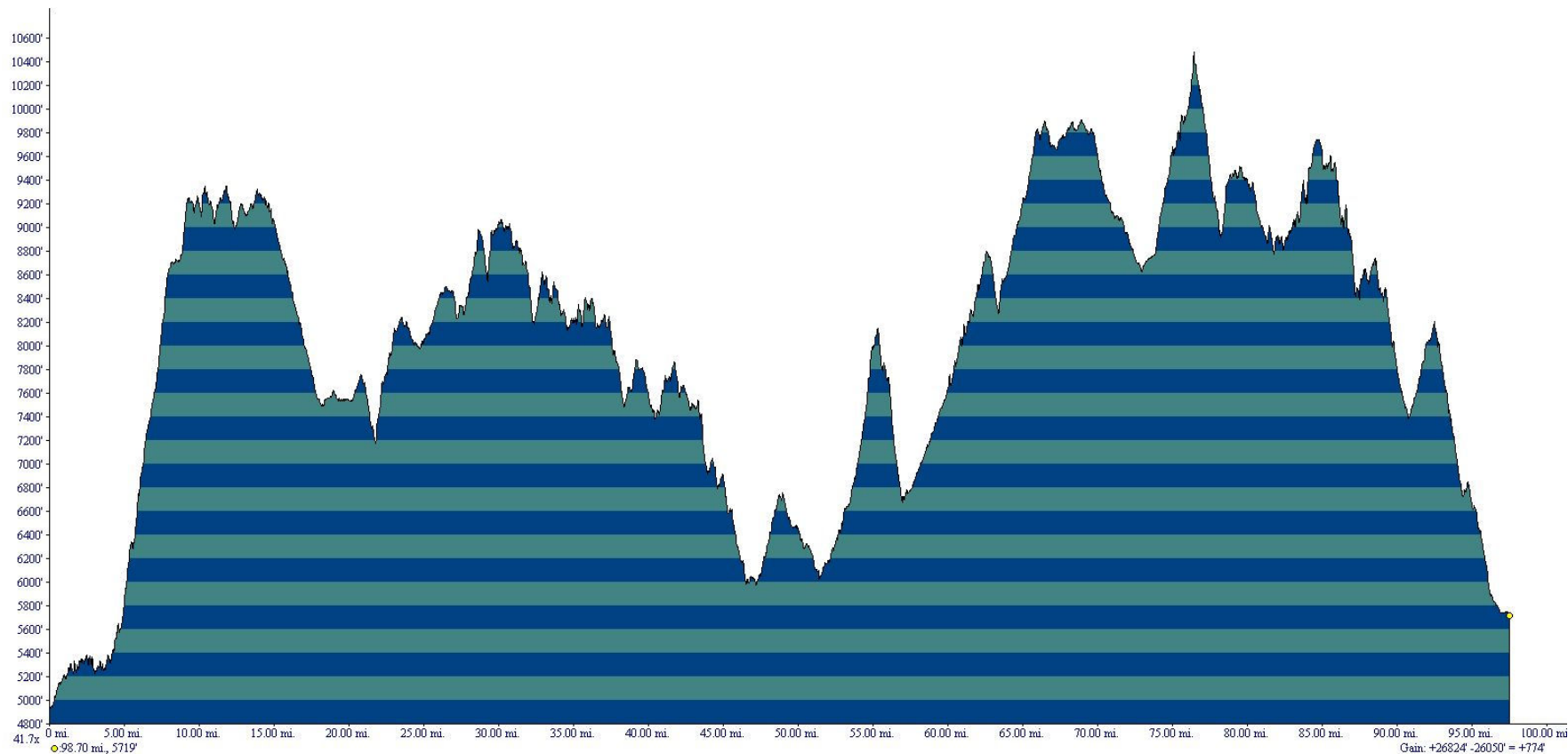
The Wasatch Front 100 Mile Endurance Run is held in Utah the first weekend after Labor Day each year. The run stretches from Layton, Utah to The Homestead in Midway, Utah. There is a cumulative elevation gain of approximately 26,882 feet, as well as a cumulative loss of approximately 26,131 feet throughout the course. This is a premier run that will test the endurance of any level of runner.

Wasatch 100 Course





Course Elevation Profile (53,000 Feet Gain/Loss)



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Wasatch 100 Communications

- Amateur Radio has been used because:
 - Able to reach remote locations
 - No landline telephone service
 - No cell phone coverage
 - Reliable
 - Volunteer operators
 - Operators provide all equipment



Wasatch 100

Amateur Radio Responsibilities

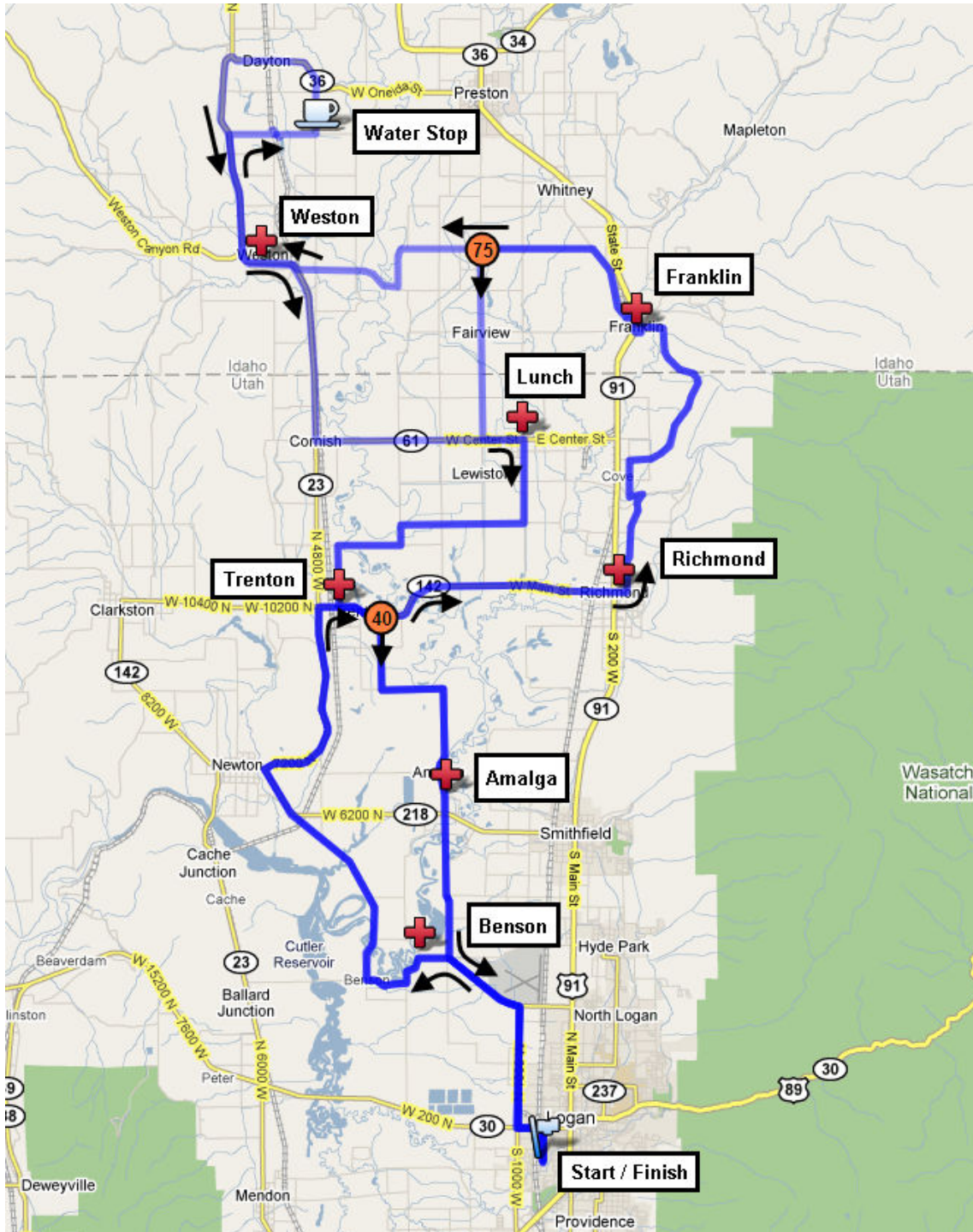
- Runner health and safety
 - This includes Search & Rescue efforts and medical response.
- Tracking in & out times
 - every runner, every stop
 - over 7770 data points (3.6 + per minute)
- Time and Location Enquiries
 - In-Person and Online (5 min refresh / 137,750+)
- Logistical support
- Drop out (DNF) reports



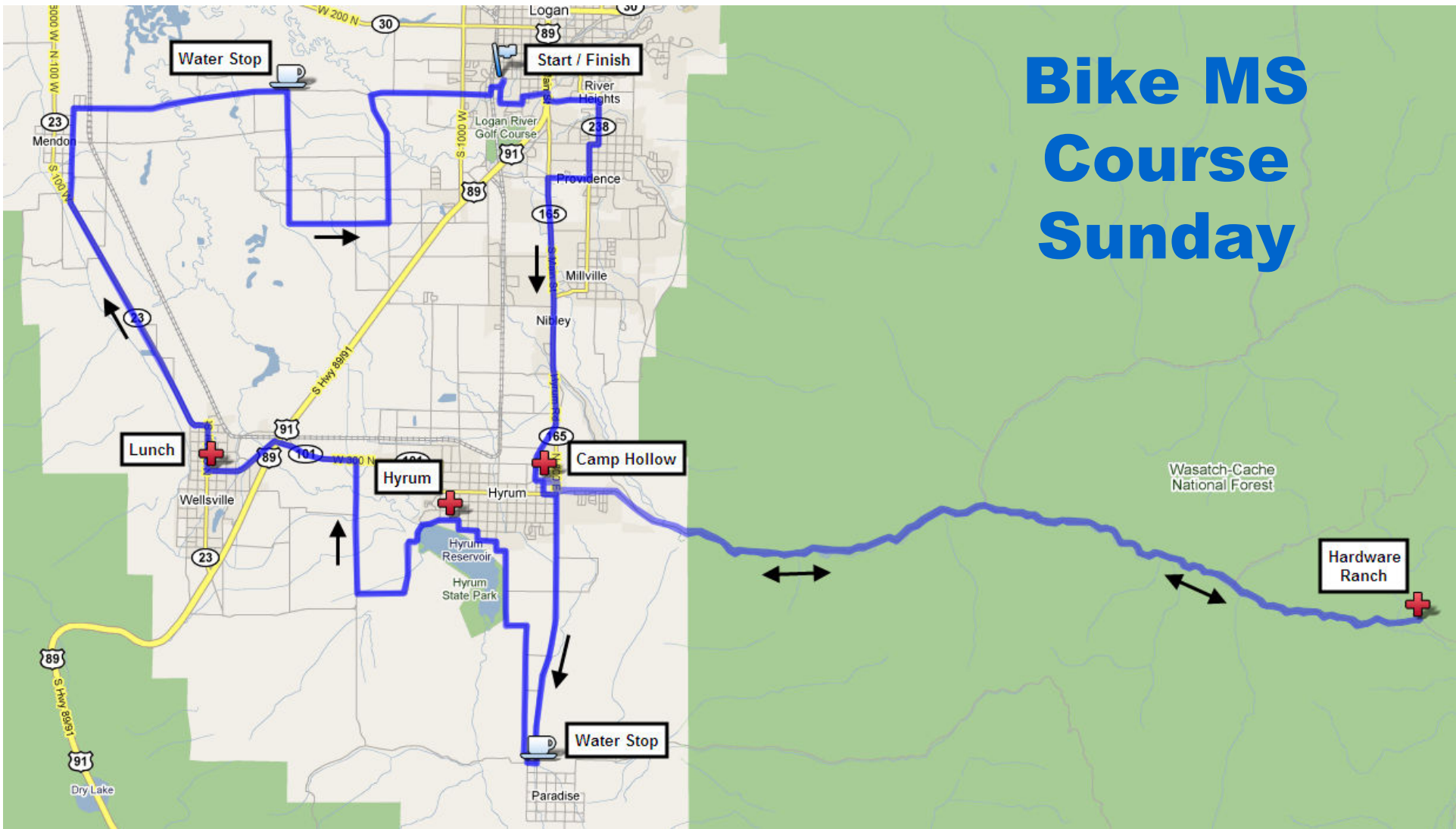
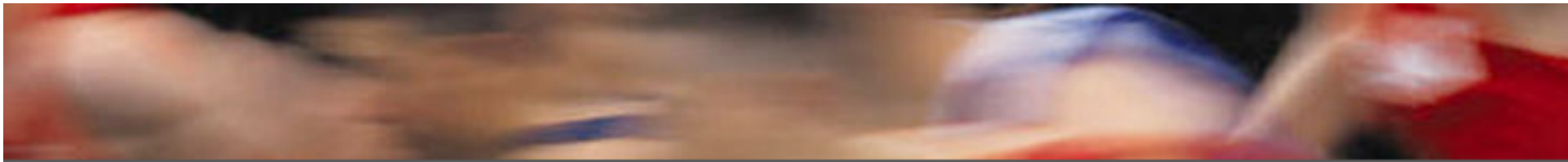
Bike MS



This annual fund raising event is held in Cache County and attracts thousands of riders each year. Approximately 3000 cyclists raise over \$1.5 million dollars each year for the National MS society. The ride covers two days and features multiple length courses for riders of varying skill levels.



Bike MS Course Saturday





How is Amateur Radio Involved?

- **Event Coordination**
 - We sit on the committee for the ride and help ensure a smooth safe event
- **Support**
 - Event Command Post
 - Coordinates all on-course activities and communication for the event
 - Rider Hotline for inbound calls from event participants
 - Rest Stops
 - Amateur Radio operators are stationed at every rest stops
 - Communication Traffic
 - » Supply requests
 - » Medical / Emergency response needs
 - » Status Updates
 - SAG Vehicles
 - SAGs are coordinated, staffed and managed by Ham Radio operators
 - On the course all through out the event
 - Assisting riders with bike repairs and transportation if needed
 - Frequently first responders for injured riders



What can I do if I volunteer for a Public Service Event?

- Common Positions/Assignments/Roles
 - Aid Station / Rest Stop
 - Fixed Location
 - SAG Vehicle
 - Mobile on the course
 - Net Control
 - Controlling all operations

There are several others but these are the main ones



Aid Station / Rest Stop

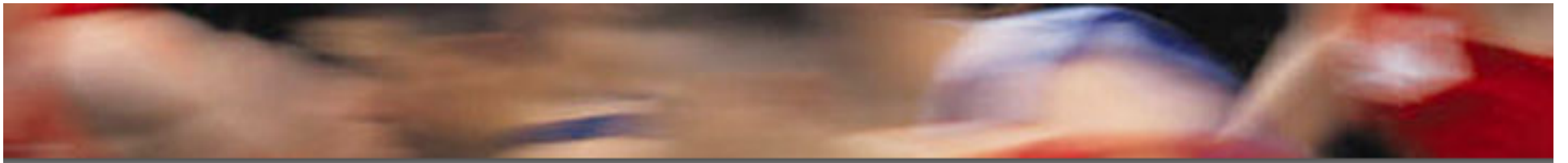
- Purpose
 - Provide communication and operational support to the people working at the location
 - Requesting supplies
 - Requesting medical assistance when needed
 - Keeping Net Control informed
 - Communicating when the first / last participant arrives
 - Communication any observed or reported issues
- Characteristics
 - Typically operating from a fixed location
 - Typically operating at a remote location from NCS
 - Quite frequently you would be the only “technical” resource

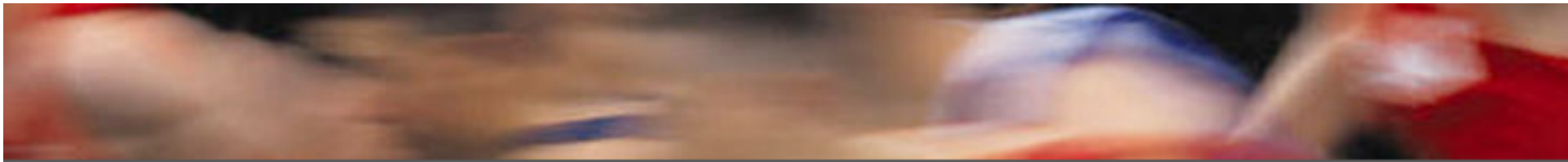


Aid Station / Rest Stop

- Other considerations
 - Food
 - How long is the event and are you going to need to eat
 - There might not be options close by
 - Water
 - The rest stop MIGHT have some but it is best to be prepared
 - Take special note of the temperature/forecast for the event
 - Shelter
 - Is anything available on site and will you have access to it?
 - What are you going to do for Sun Protection?











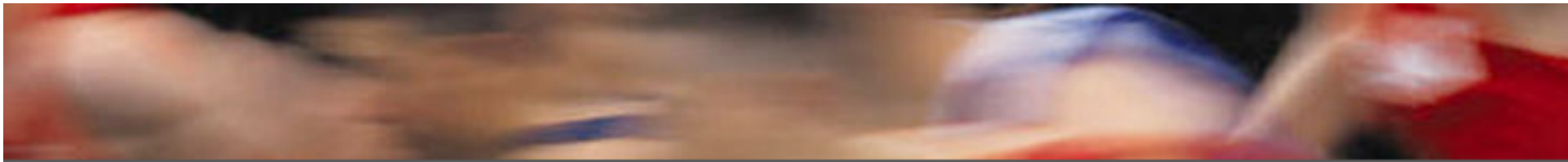
SAG Vehicle

- Purpose
 - Provide on-course communication and operational support
 - Transporting participants & supplies
 - Responding to calls for assistance
 - Keeping Net Control informed
 - Communicating overall event status
 - Communicating any observed or reported issues
- Characteristics
 - Mobile on the course
 - Operating from your personal or other vehicle
 - May or may not be partnered with somebody



SAG Vehicle

- Other considerations
 - Food & Water
 - How long is the event and are you going to need to eat/drink
 - While mobile you might not be able to stop
 - Take special note of the temperature forecast for the event
 - What about for participants?
 - Power
 - How are you going to power the radio
 - What's your backup plan?
 - Navigation
 - APRS / GPS
 - Medical / First Aid supplies
 - Tools and Repair supplies



SAG Vehicle was first on-scene

Hi-Viz clothing is recommended
when out of a vehicle



Net Control

- Purpose
 - To organize and coordinate on-air traffic and assignments
 - Central point of contact
 - The Manager / Incident Commander / Air Traffic Control
 - Keeping operators informed
 - Communicating overall event status
 - Coordination of reported events and issues and the respective response
- Characteristics
 - Fixed location (usually at start/finish)
 - Operates for the entire event (or longer)
 - Fast-paced and at times a bit hectic





Net Control

- Other considerations
 - Food & Water
 - Power
 - Your environment
 - Outside vs Inside
 - Away from the crowd or right in the middle of it
 - Sensitivity of some traffic you will receive
 - External communications
 - Emergency Services, Event Organizers
 - How are you going to organize information?



**Low-Tech is
sometimes the
best Tech**



Equipment

- Dual-Band radio capable of 50 watts output & an handheld
 - Ability to monitor multiple frequencies at once is very helpful
 - Cross-Band capabilities are also helpful
- External antenna & Coax
 - Magmount and/or Fiberglass Style
- Power source
 - Battery (Enough for the event plus several hours)
 - Power adapters (from everything to everything)
- Bud / External Speaker
- Handheld Radio



<http://www.tac-comm.com>

All equipment should be packaged to be on the move...



Getting Involved

- Step 1
 - Volunteer (www.arpse.org)
- Step 2
 - Show up the day of the event
- Step 3
 - Have Fun!

Contact me: K C 7 I I B @ A R P S E . O R G