

VOLUNTEER SAFARI

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EVENTS WORKED

- Over four years:
 - 41 Main events
 - Several SkyWarn deployments



SKYWARN

SKYWARN

YEARLY EVENTS

- Optimist Frozen Goose Run
 - Cold event
- NAMI Walk
 - Non athlete event
- Stay out of the Sun (SOS) Run
 - Short duration event
- Tour de Cure – Rochester
 - Long distance event



YEARLY EVENTS

- Med City Marathon
 - Large number of people event
- HyVee Rochesterfest Triathlon
 - Multiple stages event
- Rochester Half Marathon
 - Urban course event
- Harvest Classic
 - Short course event



MEDTRONICS TWIN CITIES MARATHON

- Yearly in October
- Large scale event covering both Minneapolis and St. Paul
- 9,000+ Runners
 - 80,000 to 100,000 Spectators
- Over 400 EMTs
 - Over 150 at finish area alone



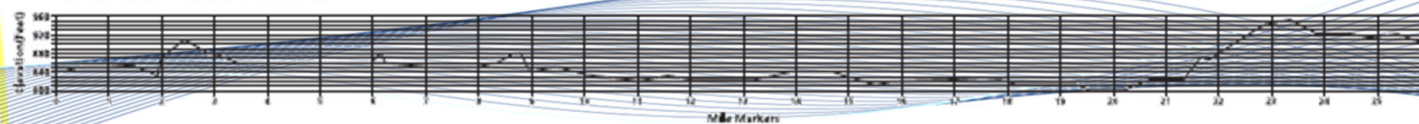
MEDTRONIC
TWIN CITIES
MARATHON

MARATHON
TWIN CITIES
MEDTRONIC

COURSE MAP




Marathon Elevation Chart






MEDTRONICS TWIN CITIES MARATHON

- Race course covered by three separate sub-nets using their own repeaters
 - Net 1, Net 2, and Net 3
 - Each sub-net has their own net control
 - Each sub-net control rolls up to the super net that controls the event
 - Net 4
 - On its own repeaters – VHF and UHF
 - I worked as net control for Net 4
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MEDTRONICS TWIN CITIES MARATHON

- In addition to voice, use 1.2 GHz D-STAR data network and 2.4GHz Long Range WiFi data network
 - Each course net has an ICOM IC-ID1 with a laptop that did point to point data with a matching IC-ID1 at the base
 - Each net control feed reports into a web based database and message system over the D-STAR connection
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MEDTRONICS TWIN CITIES MARATHON

- At the finish line area, Apple provides iPads for staff and medical personnel
- Used secured WiFi to access course reports and runner supplied medical records
 - Tied to on-site secure printers
 - Beta test of iOS AirPrint technology before release to public
 - Race: October 3, 2010
 - iOS 4.2 with AirPrint Public Release : November 22, 2010

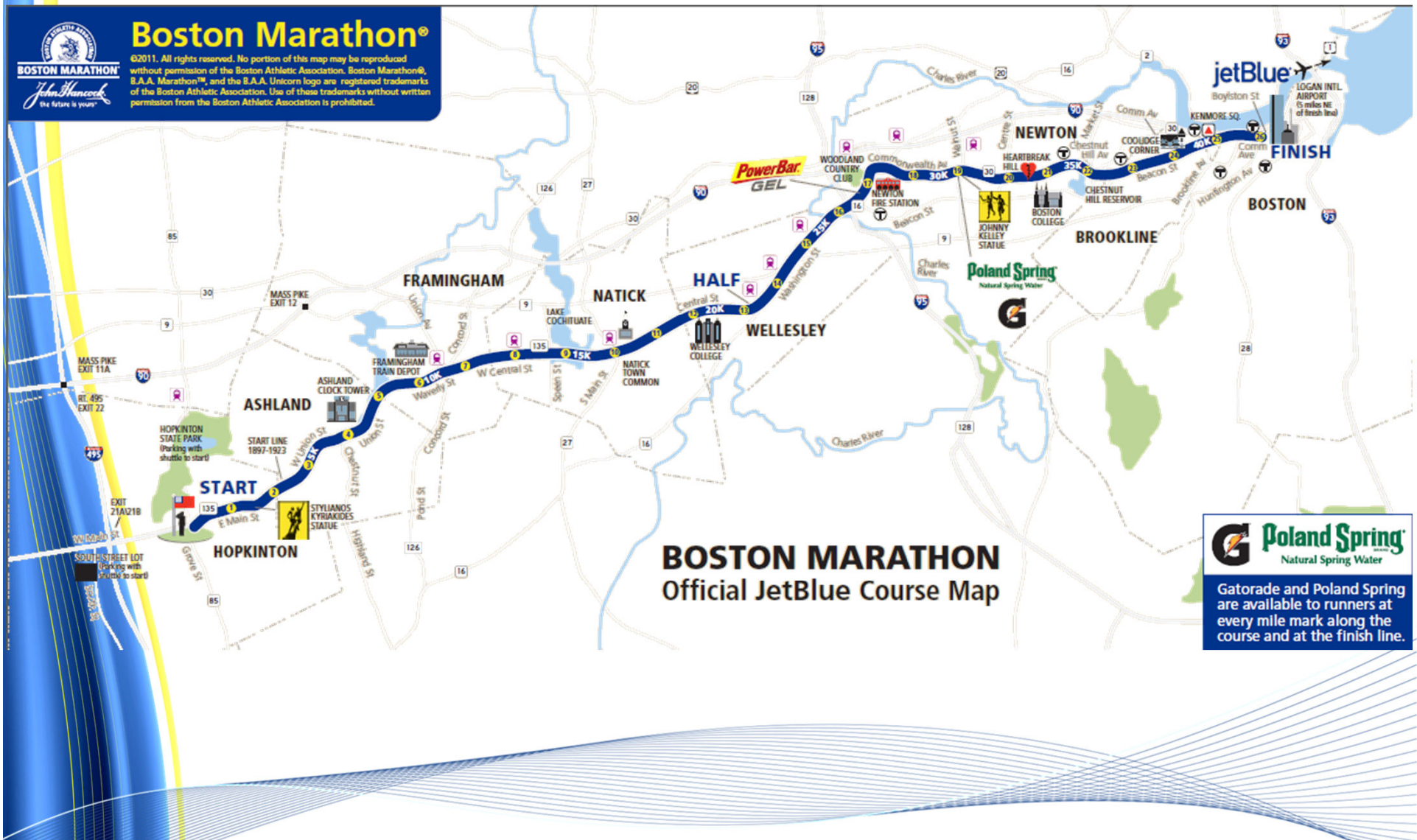
115TH BOSTON MARATHON

- Yearly event in April
- Massive large scale event
- 30,000+ Runners
 - 500,000+ Spectators
 - Third largest US marathon
 - 1. ING New York City (44,977)
 - 2. Bank of America Chicago (36,088)
- Yearly economic impact of \$131 Million



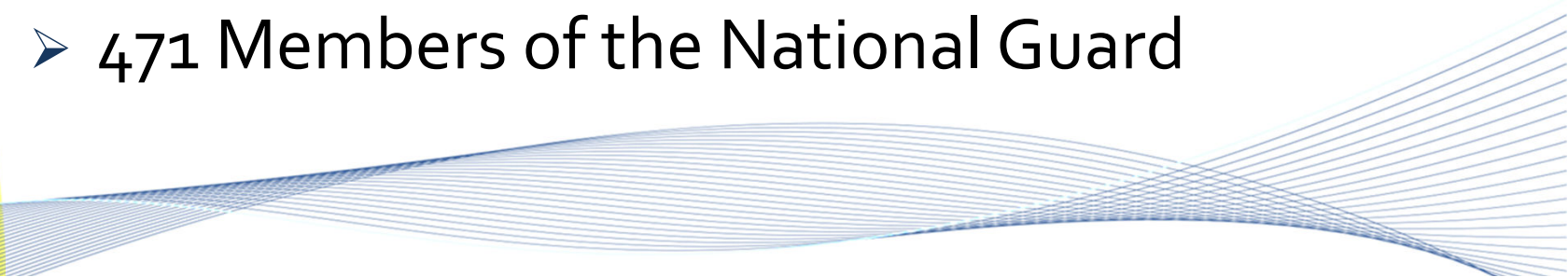
**2011 BOSTON
MARATHON®**

COURSE MAP



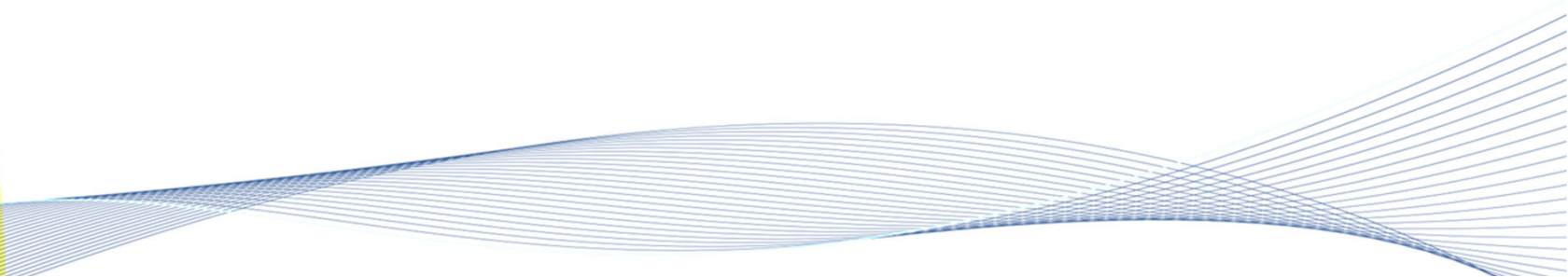


PEOPLE

- 80,000 People attending the Expo
 - 8,000 Volunteers
 - 1,200 Medical Personnel
 - 1,500 Security Personnel
 - 61 Race Officials
 - **250 Ham Radio Operators w/500+radios**
 - 1,500 Total Uniform Police Officers
 - 300 State Police
 - 471 Members of the National Guard
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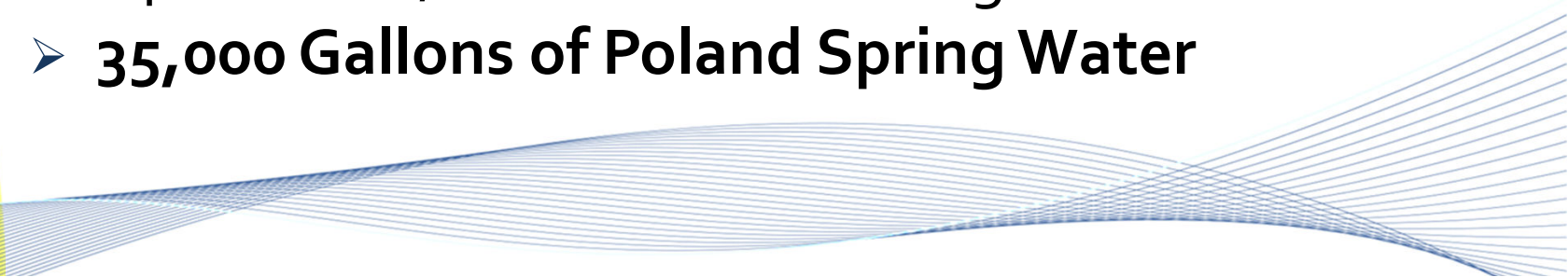


COURSE

- 36 Course Clocks
 - 9 Electronic Checkpoints
 - 5 Manual Checkpoints
 - **26 Red Cross Stations**
 - **24 Water Stations**
 - **60 Volunteers at each Water Station**
 - 8 Elite Athlete Water Stations
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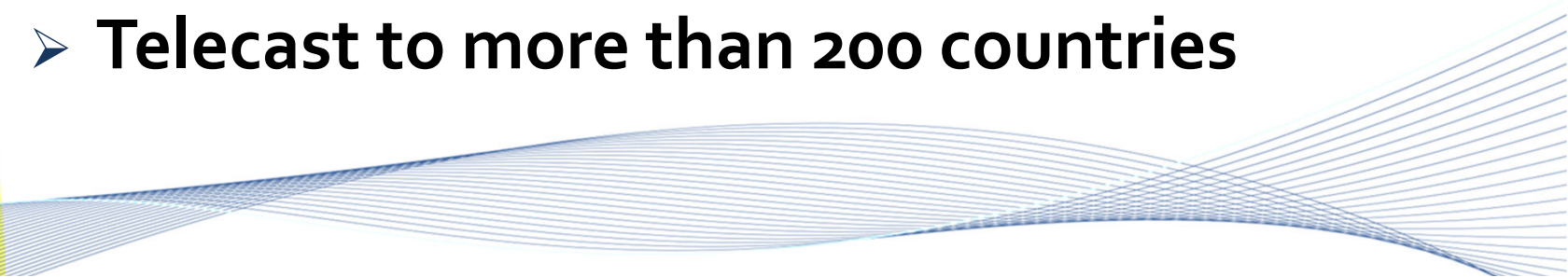


FOOD

- **11,300 Pounds of Pasta**
 - 2,825 Quarts of Tomato Sauce
 - 3,400 Pounds of Fresh Vegetables
 - 100 Pounds of Ground Black Pepper
 - 35,300 Powerbars
 - 34,656 Packets of PowerGel
 - 17,000 Cups of Coffee/Tea
 - 5,250 Gallons of Boiling Water
 - 5,225 Hours of Preparation & Cooking Time
 - 140 Waiters/Waitresses Including Chefs
 - **35,000 Gallons of Poland Spring Water**
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MEDIA

- 180 Outlets Receiving Credentials
 - More than 1,000 Media Credentials Issued
 - 15 Countries Receiving Credentials
 - 20 States Receiving Credentials
 - 80 Print Publications Receiving Credentials
 - 22 Television Stations Receiving Credentials
 - 14 Radio Stations Receiving Credentials
 - 10 News Agencies Receiving Credentials
 - **Telecast to more than 200 countries**
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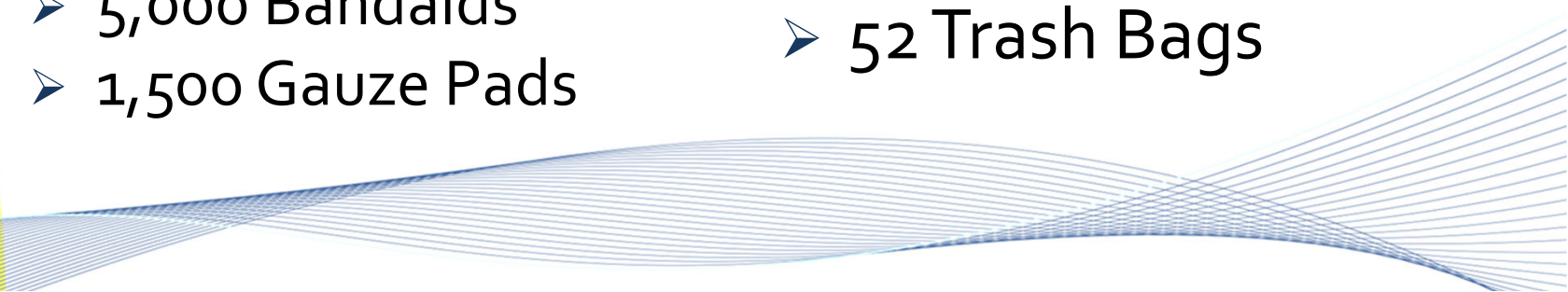


MEDICAL – FINISH TENTS

- 500 Bags of Ice
 - **380 Cots**
 - 1,500 Blankets
 - 500 Tongue Depressors
 - 200 Sick Bags
 - 4000 band aids
 - 175 Ace Bandages
 - 1,500 Gauze Pads
 - 2,000 Adhesive Bandages
 - 250 Rolls of Moleskin
 - 500 Surgical Soaps
 - 500 Tubes of Petroleum Jelly
 - 500 Towels
 - **1,500 Intravenous Bags**
 - 26 Oxygen Tanks
 - 12 EKG Machines
 - 36 Defibrillators
 - 150 Blood Pressure Cuffs & Stethoscopes
 - 80 Thermometers
 - 16 Tympanic Thermometers
 - 2,000 Pairs of Medical Gloves
 - 200 Bottles of Antiseptic Hand wash
 - 500 Emesis Basins
 - 2,000 Tubes of Antibiotic Ointment
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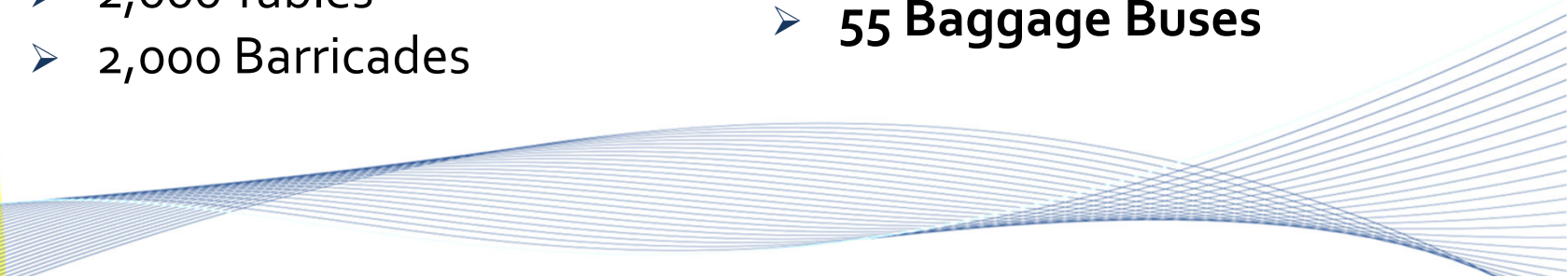


MEDICAL – ON COURSE

- 325 medical / admin volunteers
 - 2,000 combined volunteer hours
 - 31 bottles Antiseptic hand gel
 - 104 boxes Gloves
 - 52 bottles Sunblock
 - 31 boxes Antibiotic Ointment
 - 5,000 Band-aids
 - 1,500 Gauze Pads
 - 250 Ice Packs
 - 52 Heat Packs
 - 400 pads Moleskin
 - 52 tubes Sports Cream
 - **150 pounds Petroleum Jelly**
 - 52 rolls Paper Towels
 - 52 boxes Tissues
 - 52 Trash Bags
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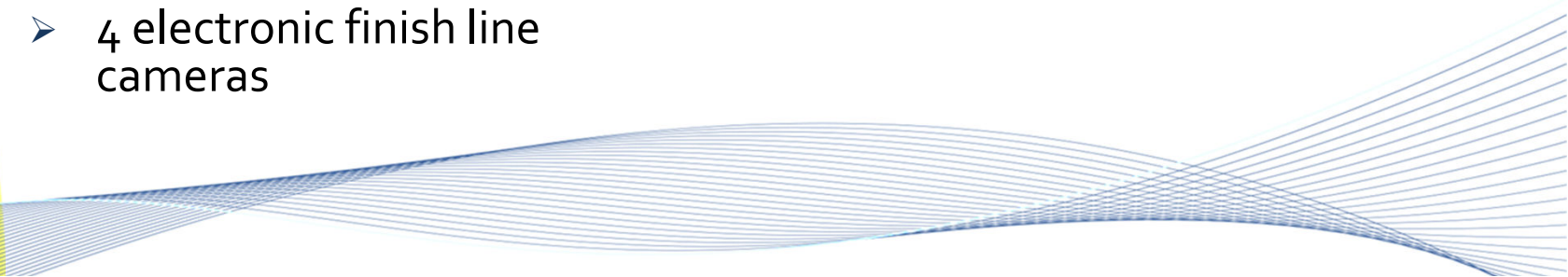


EQUIPMENT

- 190 Two-way Radios
 - 63,360 Feet of Rope
 - 30,000 Feet of Fencing
 - 50,000 Feet of Cable
 - 10,000 Trash Bags
 - 50,000 Cable Ties
 - **300KW of Electrical Power**
 - 500KW of Electrical Power for Media
 - **9 Million BTU's Temporary Heat**
 - 2,000 Tables
 - 2,000 Barricades
 - 200 x 2 Inch Tape/Rolls of Caution Tape
 - 10 Fork Lifts
 - 10 Scissors Lifts
 - **790 Port-o-Johns at start**
 - 202 Port-o-Johns along course
 - **91 Lead Vehicles**
 - 5 Lifeguard Stands
 - 350 Rakes and Shovels
 - 40 Delivery Trucks
 - **493 Buses**
 - **55 Baggage Buses**
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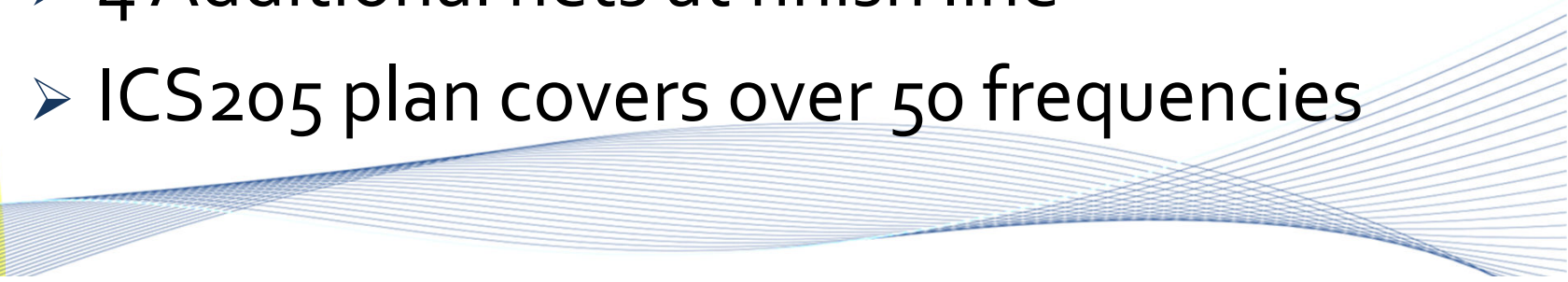


EQUIPMENT

- 600 Trash Barrels
 - 400 Rolls of Paper Towels
 - **108,000 Safety Pins**
 - 65 Shuttle Buses in Hopkinton
 - 15 Medical Buses
 - **140 National Anthems and Countries' Flags**
 - 39,575 mylar blankets (heatsheets)
 - 25,000 Feet of Ribbon
 - 9 Command Posts
 - 220,000 Sponsor Brochures distributed to runners
 - 4 electronic finish line cameras
 - 30,000 Participants' Tee-Shirts
 - 30,000 Participants' Bags/Packets
 - 30,000 Finishers' Medals
 - 400 packets of Handi-Wipes
 - **1.4 Million Paper Cups**
 - 140,000 Sponsors' Samples distributed to Runners
 - 24 Golf Carts
 - 50,000 Drywall Screws
 - 600 Sheets of Plywood
 - 1,000 Pairs of Work Gloves
- 



COVERAGE

- Course is covered by seven sub-nets
 - Each has own repeater and net control
 - 4 Medical on route nets
 - I worked on Medical Net 3 Transport covering miles 13 to 20 with the famous Newton Hills including Heartbreak Hill
 - Sub-nets roll up to 4 super nets
 - 4 Additional nets at finish line
 - ICS205 plan covers over 50 frequencies
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NANOTEK TREK



- Bike ride event with five courses
- Based from Rushford east to Houston and west to Lanesboro
- Hard coverage area with valleys and bluffs
- Found APRS messaging worked well
 - Transceivers in Rochester, Rushford, and Winona connected over internet

MS TRAM 2011

- MS Society The Ride Across Minnesota
- 5 days biking event covering 278 miles in SE Minnesota
 - Rochester
 - Owatonna
 - Austin
 - Lanesboro
 - Winona



StarTribune

TRAM 2011

The Ride Across Minnesota

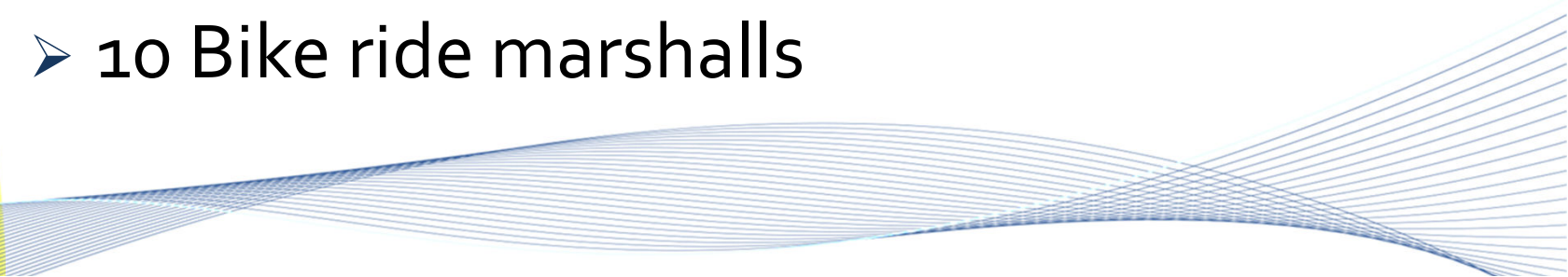
The Ride Across Minnesota

TRAM 2011

StarTribune

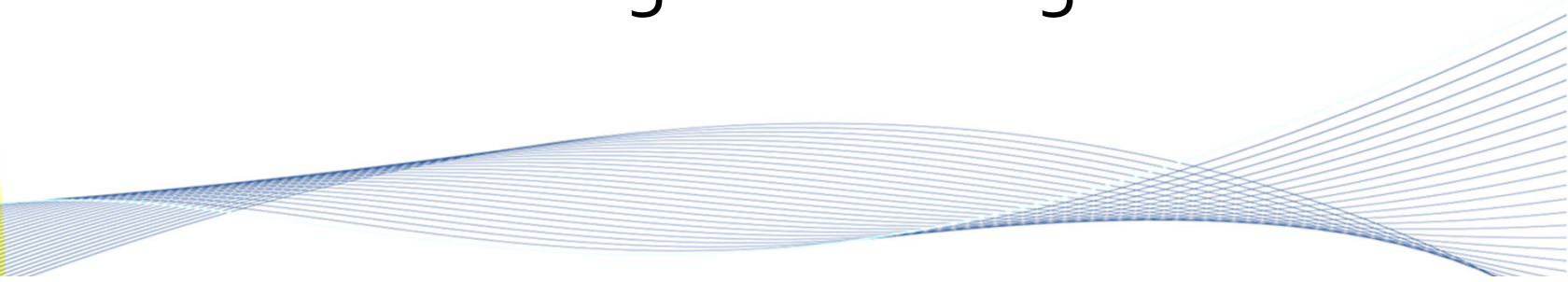


VEHICLE PARADE

- 4 SAG 15 passenger vans with trailers
 - 1 each of Hospital Runner, Course, Comm, and Safety Supervisors
 - 18 Minnesota Mobile Escorts
 - 14 Motorcycle Escorts
 - 4 Rest station supply trucks
 - 4 Luggage and gear trucks
 - 10 Bike ride marshalls
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COVERAGE

- Used 8 different amateur repeaters across SE Minnesota
 - Tropo ducting was pulling in signals from Iowa, Wisconsin, and Illinois
 - Used 11 different business band repeaters across SE Minnesota
 - Used as a backup and for non-hams
 - Both bands had great coverage!!!
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FUEL MY BRAIN – OLMSTED FAIR



PAST VOLUNTEER EXPERIENCES

- Badger Boys State
 - Assistant Director of Technology
 - Administer multiple web domains, online store, and over 50 PCs campus wide
 - 10 years of service 1997 - 2006
 - 1 Week per year plus various meetings
- ELCA Youth Gathering 2000
 - Assistant Director of Volunteers
 - Manage over 1,000 volunteers
 - 45,000 youth in St. Louis over three weeks
- Technical Director for 8 different theatres
 - 2005 MACT Outstanding Lighting Designer



PRESIDENT'S VOLUNTEER SERVICE AWARD

- Gold Level Earned in 2004, 2005, 2006
 - 500+ hours per year
- Silver Level Earned in 2007, 2008, 2009, and 2010
 - 250 to 499 hours per year
 - Earned at least Silver Level in 2011
- President's Call to Service Lifetime Award
 - 4,000+ hours in total
 - Earned in 2011 at Harvest Classic!



FUTURE

- Would like to work
 - ING New York Marathon
 - World's Largest Marathon
 - Covers all five boroughs
 - Marine Corps Marathon
 - Washington DC over Halloween
 - Ragnar Relays
 - Winona to Minneapolis
 - Madison to Chicago
 - 12 people teams, 200 miles
 - ???

