

Search and Rescue and Disaster Gear

Keith Conover, M.D., FACEP

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Version 3.8 | 9/7/08

Winter-only items in **cold blue**, summer-only items in **hot orange**

I. SAR pack¹ (everything in **green** goes into disaster pack or duffel for disasters) **check for some items in bike panniers, hanging on inside of coat closet door, or daypack hanging on wall above downstairs landing**

- Belt pouches/hipbelt stuff (often in bag for easy transfer between packs):
 - Left hipbelt pocket (LowePro D-Res 10AW camera pouch)
 - Waterproof notebook and pen
 - 2 granola bars
 - spare AAA disposable lithium cells (2 packs of 3, sealed in plastic) for headlamp
 - Petzl Tikka XP headlight²
 - Right hipbelt pocket (LowePro D-Res 10AW camera pouch)
 - Compass/whistle
 - wrist and head sweatbands
 - contacts saline
 - earbud speaker-mike for Yaesu handheld radio
 - small roll duct tape
 - counting beads:
 - 5 light 1 dark, 5 light 1 dark
 - 10 light on longer string
 - Garmin GPS 60 CSx belt clip and protective case
 - Folding toilet trowel/toilet paper
 - Altimeter
- Top Compartment Stuff:
 - 2-person European-style Pertex Bivouac Sac (Bothy 2 by Terra Nova Equipment) (take out for disaster response)

¹ My theory is to keep pretty much everything packed in the SAR pack and then take stuff out of it when heading out—this way I'm less likely to forget something important. I also won't put liquids in my gear unless they are (1) in a Nalgene container, or (2) inside an Aloksak heavy-duty zipper plastic bag. I also color-code everything. I used to think that this was an affectation by some SAR people I know, but from 35 years of SAR experience, I now tend to color code more than I used to. However, I still don't beat Gene Harrison—Bru Randall once went to a costume party wearing a large cardboard box, painted white, with big, wide green-red-green stripes running down it. Everyone immediately knew he was dressed as Gene's refrigerator.

² This replaced a Princeton Tek EOS headlamp, which replaced a Petzl Zipka Plus Headlamp, which replaced a Petzl Zipka headlight. I liked the Zipka because it was so light, and bright enough for quick-and-dirty use, but it wasn't water-resistant at all, the switches tended to corrode over time and required taking the unit apart and cleaning with contact-cleaner and a steel brush. And, the foam pad that kept it from denting your forehead got all sticky and gooey after about a year of use. The Petzl Zipka Plus was a step up: brighter (one more LED, better LEDs), water-resistant, non-corroding switch, non-gooey head pad. But then the Princeton TEC EOS offered a 1-watt Luxeon Start side-emitting LED, which was much brighter and threw a beam farther. But **then** Petzl came out with the Tikka XP, which had a 1-watt Luxeon Star, AND was tiltable to various angles, and includes a diffuser that is an integral part of the light and can be drawn across the front to provide a diffuse area light. It also offers a "boost" option which will, for a few seconds, give you a quite bright beam. And, note: all of these lights use a set of three AAA cells (I use disposable lithium cells from REI), are very small, very light, and all fit in one of these belt pouches with lots of room for other stuff.

- 1-Liter Nalgene Water Bottle with duct tape wrapped around it
- Pack Raincover
- Small Aloksak plastic bag for wallet, etc.
- Large Aloksak plastic bag for use as waterproof map case
- A few fast-food salt packets (for salting drinks in summer)
- Basic Survival/Junk Bag³
 - Outdoor Research Mesh Cube #4 (outer case)
 - 6 disposable AA lithium cells for radios, and 6 AA alkaline cells for GPS in plastic case
 - disposable AAA lithium cells, for headlamps, 2 sets of three
 - two heavy-duty Aloksak plastic bags sized for wallet
 - Sears ignition pliers
 - half roll of flagging tape
 - 1 packet of Gatorade mix, to make 1 liter
 - water purification tablets (sealed, backup only)
 - plumber's candle melted into 2-oz cylindrical flip-top plastic container
 - 2.5 gallon military-style canteen-liner water bag, in pint freezer Ziploc bag for protection
 - waterproof/windproof matches + striker card in waterproof matchcase
 - tiny stuff, in film can: small bits of thread, 5 assorted-size safety pins, 2 paper clips, 4 small pieces of Radio Shack easy-melt solder, one 8-32x1" bolt with nut and two lockwashers, 2 1/2-1/4x1 self-drilling screws
 - Lexan spoon
 - Aloksak zip-lock plastic bag with
 - Blanket pin
 - package of four single-use tubes of cyanoacrylate glue
 - 1 50' length of Kelty reflective tentcord
 - 1 5-yard roll duct tape (from rei.com)
 - cable ties:
 - 3" - 2
 - releasable 7" - 2
 - mounting-hole type 10" - 2
 - releasable 11" - 2
 - eyeglass repair kit with screwdriver and spare screws
 - 3" strip of kneadable epoxy putty
 - 5 misc. sized needles, in old case for spare mechanical-pencil erasers
 - Aloksak zip-lock plastic bag with
 - 3 leaf bags
 - wrist sweatband

³ Always have in pocket: Swisschamp Swiss Army knife with crosscut saw, file, etc.; windproof Windmill lighter; two Photonlights; small lockback knife.

- Fiskars pocket knife sharpener
- 4 small packets toilet paper, in tiny thin zip plastic bags
- red cotton bandanna (with leaf bags in protective Ziploc bag)
- Tiny survival compass
- magnesium firestarter
- Aloksak zip-lock plastic bag with waterproof notebook, 2 pens and 2 pencils and tiny pencil sharpener
- Aloksak zip-lock plastic bag with
 - tiny bottle contacts solution
 - 30 mL bottle sunscreen
 - 30 mL bottle insect repellent
- Petzl Zipka Plus headlamp with AAA lithium cells
- Extended Survival/Junk Bag**
 - Outdoor Research Mesh Cube #1 (outer case)
 - MSR 700 mL titanium pot with handles
 - pack of tiny playing cards
 - Petzl Zipka Plus headlamp with AAA lithium cells
 - disposable AAA lithium cells, for headlamps, 2 sets of three
 - water purification neutralizing tablets
 - 1 50' length of Kelty reflective tentcord
 - 1 5-yard roll duct tape (from rei.com)
 - disposable AA lithium cells, 8, in hard plastic case from Porter's Camera Store
 - Set of Aloksak tough/light zipper plastic bags
 - Gear Aid Quik Attach Slik Clip Assortment, "one snap lock buckle, one ladder lock buckle and two tri-glide style buckles, all of which can be attached to presewn loops without re-sewing." (www.rei.com)
 - McNett Field Repair Kit: "ultralight seam grip repair kit (seam grip, brush, patches) (www.rei.com, www.mcnett.com)
 - 3 ft of 1" flat black pack webbing
 - 1 small cordlock
 - 1 packet of Gatorade mix, to make 1 liter
- SAR Stuff bag**
 - Goggles etc.:
 - Lightweight goggles (for air operations; clear/tinted interchangeable lenses) and Swim Goggles
 - Lightweight hearing protection (earplugs on lanyard)
 - 2" webbing for backpack carry or load strap
 - 1 roll flagging tape
 - Waterproof handheld radio case
 - 3 Surgical masks and small bottle eugenol (oil of cloves) for masking smell of decomposed bodies
 - Plastic signal mirror
 - 2 Orion pocket flares (exp 5/06) (take out for disaster)
 - 2 Orion 60-second smoke signals (exp 2/07) (take out for disaster)
 - 2" load strap for litter carries (take out for disaster)
- Water:**
 - Water Purification Bag:
 - MSR MiOx unit
 - MSR SweetWater Microfilter
 - MSR SweetWater Siltstopper prefilter

- Platypus Filter Link to attach Microfilter to Platypus collapsible water bottle
- Platypus 2 liter collapsible water bottle (this and all above available from www.rei.com)
- Water Purification Accessory Bag (smaller):
 - spare salt (for MSR MiOx water purification device)
 - 4 spare D123 batteries (for MSR MiOx water purification device)
 - spare filter for MSR Sweetwater Siltstopper prefilter
- Sea to Summit 2.5 gallon (10 L) "Pocket Shower" water bag
- (1-Liter Nalgene bottle in top section)
- (2-Liter Camelbak—summer or winter version, depending on season) (don't transfer to disaster pack)
- No-cook food**, in 1.9L Lock and Lock box
 - 8 Boomi Bars⁴
 - 2 2-oz. Packs of Stoned Wheat Thins⁵
 - 2 4-oz. Packs of Stoned Wheat Thins
 - 2 4.5 oz cans of mackerel fillets in olive oil
 - Lexan fork
- Warmth:** Thinsulate vest in lightweight dry bag
- Shelter:**
 - Mont-Bell Blizzard Pack compressed disposable sleeping bag
 - Adventure Medical Kits' Thermo-Lite® bivouac sack⁶
- GoreTex Pants, Heavy**
- Light:** Spare Princeton Tec 4-AA cell halogen light with improvised diffuser and set of spare batteries and spare bulb and Jakstrap headband; also spare batteries (4)
- Radio Chest Harness**⁷ with spare long-duckie dual-band antenna for handheld radio
- Vertical gear bag**
 - Petzl seat harness
 - Titanium BMS micro-rack

⁴ The best fruit-and-nut bars I've found; available from www.amazon.com

⁵ Packaged with an oxygen-absorber in a food-grade plastic bag sealed with an industrial-type heat sealer.

⁶ From www.adventuremedicalkits.com. I used to carry a Space™ Sportsman's Blanket (heavier than the emergency blanket, and has grommets on the corners), folded in half with sticky Velcro stapled along two edges. This could be un-Velcroed and used as a tarp, or used as is as a quick bivouac shelter. However, this weighs almost a pound, and the Thermo-Lite sack weighs about half as much. There are no grommets on the corners but it wouldn't be hard to tie some shroud line onto the corners, tying around a pebble if needed for strength. The Space Sportsman's Blanket will fold out flat, and the Thermo-Lite sack is sewed on the bottom and partly up one of the sides—but a pair of Swiss Army Knife scissors could make quick work of this. When I put Velcro on my Space Sportsman's Blanket, I put it all the way around on the bottom and side, and left the top open. The Thermo-Lite sack is sewn on the bottom and part=way up the side, and has Velcro up the rest of the side and, unlike my prior home-brew, across the top. But the Velcro is intermittent, with ~6" Velcro strips alternating with open areas. I'm not convinced my homebrew was superior, so I'm going to try the Thermo-Lite as is. One criticism of the Thermo-Lite Bivouac sack (at www.backpackergear-test.org—great place for gear reviews) is that the small mesh vent at the bottom keeps closing when you make random movement, as there is both hook and pile Velcro on either side of it. I put a small piece of non-sticky pile Velcro in the stuffsack with the bivouac sack which should take care of this.

⁷ Currently I favor one from The Pouch.

- Petzl Frog ascending system with extra quick-attach ascender
- Minimum rescue gear sling in bag**
 - Gear Sling (single-length 1" tied runner)
 - Gloves
 - Single-length sewn runners
 - Double-length sewn runners
 - Prusik loops
 - Locking D rings
 - Non-locking carabiners
 - Small rescue pulley
 - 20' 1" webbing (for improvised seat harness)
 - Emergency one-hand-opening knife with keeper cord
 - Purcell Prusik with locking D-ring and Petzl Basic ascender
- On outside of pack:**
 - ThermaRest ProLite 3 Short inflatable pad in stuffsack
 - GoreTex uniform parka (with balaclava and gloves in pockets)
 - Fluorescent mesh Mountain Rescue safety vest
 - Backpacking Static Emergency Rope: 80' of 5.5mm Blue Water Titan Spectra Cord (20 kN strength but no energy absorption) tied in a rescue coil
 - 2-Liter Camelbak (summer or winter version, depending on season)
- Medical:** WEMSI Personal Wilderness Medical Kit (3 red "First Aid" bags; see official WEMSI kit listing); packed in separate basic REI daypack for "grab and go" availability; also this pack zips to back of big medical kit/REI travel pack.

II. SAR Gear Bag (everything in green goes into disaster pack for disasters)

- Top Section**
 - Color code tape
 - Short gaiters
 - Long gaiters
 - In Aloksak bag:
 - 60 mL Nalgene bottle of SPF 45 sunblock
 - 60 mL Nalgene bottle of DEET insect repellent
 - White shoe polish** and and $\frac{3}{4}$ " **yellow vinyl tape** for marking on convoy vehicle windows
- Small Side Pocket:** aluminum clipboard with storage full of SAR forms, pens
- Large Side Pocket 1:**
 - Stabilicers strap-on ice "creepers" for glare ice after ice storms⁸
 - Yaktrax Pro ice creepers
 - Crampons for Limmer Boots**
 - Sorel winter backpacking boots with pac liners and two extra pair of liners and large mesh bag for hanging liners on pack to dry**
 - Spare crampon wrenches**
 - Ski Goggles (in one of the Sorel boots)**
 - Winter hood with rebreathe flap**
 - Winter insulated facemask**
- Side Pocket 2:**
 - JetBoil stove
- Boots:** Limmer custom backpacking boots with boot socks/liners
- 2 Rolls flagging tape**
- Food for Heating/Cooking, in 1.9L Lock and Lock box:⁹**
 - 4 oz. Quinoa (fast-cooking complete-protein grain)
 - 4 oz. Cous-cous (tiny pasta; just pour in boiling water)
 - 2 pkgs. Hot cocoa mix
 - 4 pkgs. Boullion mix
 - 1 oz. Freeze-dried cooked diced beef
 - 1 Mountain House entrée
 - Lighter for stove
 - 2 Lexan spoons
- Clothing**
 - Polartec Fleece Top and Bottoms (Crestone Alpine Designs)
 - 2 pair dry/clean boot socks/liners
 - Pants Bag:
 - 2 pr CoolMax underpants (briefs)
 - 1 pr polypro long underwear
 - 1 pr artificial-fabric "jogging pants" (LL Bean climbing pants)
 - 1 pr Ex-Officio fleece-lined nylon pants
 - 1 pr Patagonia shelled Capilene overpants
 - Shirt Bag:
 - 1 cotton long-sleeved ASRC uniform shirt
 - 1 cotton ASRC uniform T-shirt

⁸ Not sure which I like best, planning to try both after next ice storm.

⁹ This size available as part of a set from www.amazon.com

- 1 Sequel net CoolMax desert shirt
- 1 zipper-turtleneck mid-weight wicking top
- 2 Lightweight CoolMax fishnet T-shirts
- Bug suit (mosquito netting)

III. Technical Rescue Bags

A. Kept in vehicle all the time

- Rope: 100' PMI static rope in rope bag
- etc.

B. Only thrown in as needed

- Rope: 50 meter dynamic climbing rope
- Technical Gear: about 50 lbs of misc. climbing and technical rescue gear including three deadmen (can use in mud, e.g., in caves)
- Winter: three snow pickets, crampons and crampon wrenches in crampon case

IV. Caving Gear

Misc: Caving Gear

- Boots and socks
- Polypro tops and bottoms
- Helmet with HDS Systems Actionlight and Princeton Tec lights
- Coveralls with:
 - gloves
 - waterproof paper, pen, pencil
 - small contacts saline (2)
 - Malden Powerstretch 100 union suit, underpants and CoolMax fishnet and socks
- Caving necklace (quick-release) with
 - tip cleaner brush
 - small folding knife/screwdriver
 - whistle
 - small compass
 - 2 Photon microlights

Cave Pack Contents

- 500 cc water bottle with duct tape
- extra food: 4 power bars and some jerky/in bottle
- thin balaclavas/in bottle
- thin pile sweater/in dry bag
- 8 lithium AA cells and iodine water tablets/in bottle
- hypothermia kit/in bottle:
 - 3 leaf bags
 - candle/in bottle
 - matches/in waterproof case
 - Mg metal firestarter
- junk incl. 2 Photon microlights/in bottle
- minimum vertical kit (seat, biner, 2-knot rig)
- first aid kit
 - SamSplint
 - standard daypack/cavepack first aid kit
- Swiss Army Knife and mini Leatherman/on lanyard
- 30' parachute cord

V. Disaster Gear items in red must be added to gear on deployment

- Rolling Duffel** (from basement across from freezer: High Sierra (highsierrasport.com) AT202 36" Drop-Bottom Wheeled Duffel with Backpack Straps, purchased from Cabela's, www.cabelas.com)
 - 1 Outer Pocket (other outer pocket kept free for other items):
 - straps for strapping pack to rolling duffel
 - White shoe polish for marking "DMAT" etc. on car back windows; in Alosak plastic bag
 - Reflective tape for marking convoy vehicle back windows¹⁰
 - pack lock and multi-luggage cable lock
 - Ziploc bag with multiple small bottles of waterless hand-cleaner
 - ID case for hanging around neck
 - Sears ignition pliers (lightweight channel-lock type pliers)
 - 1 pair track shorts
 - Inner pocket (net pocket on bottom of divider):
 - Nalgene bottle with one load's worth dry laundry detergent (and room for more if can scrounge)
 - 10 lightweight clothespins (N.B.: tiny clothesline/pins also found in Austere Toilet Kit)
 - WiFi pouch: Outdoor Research clear pocket with Radiolabs Ultimate Notebook Kit (Senao long-range WiFi card, external omnidirectional antenna, laptop mount); 6' extension coax for that antenna; Ramsey Electronics Log-Periodic Dipole WiFi antenna with 3' extension coax and REI pocket tripod
 - Lightweight nylon dirty-clothes bag (from overnight bag in master bedroom closet)
 - Add (from black bag)
 - into Outdoor Research Clear Pocket #3 zipper bag:
 - medical headlight¹¹
 - otoscope/ophthalmoscope and otoscope extras (specula, currettes, FB remover)
 - Broselow pediatric resuscitation measuring tape, laminated pocket cards
 - tools (bandage scissors, Kelly clamps, needlepoint ViseGrips, Alligator Forceps, McGill forceps.)
 - NOT stethoscope (have lightweight one in Physician Addendum to WEMSI Personal Wilderness MedKit)
 - loupes ("surgical telescopes")
 - Yellow Packing Cube:** uniform tops (2)/trousers (3)
 - Blue Packing Cube:** Uniform Shorts (2) (summer only)/DMAT PA-I uniform T-shirts (4) including black/navy CoolMax fishnets (4) to wear under uniform t-shirts

- Spare underwear (7 pr) and socks (7 pr) and T-shirts (2), polo shirt (1)¹², packed in Eagle Creek packing modules and labeled (from overnight bag in bedroom closet/bedroom)
- Purple toilet kit (from overnight bag)
- black zip-up military boots (from vehicle)
- Clothing:** appropriate outer clothes for season and area, khaki Tilley hat (from vehicle)
- Electronics:** Two clear plastic "For Disaster Response" Lock and Lock cases (from vehicle)
 - Computer Misc. Box** (take out iGo AC/DC power supply WITH BOTH CORDS and exchange with AC only power supply from Tumi pack)
 - Chargers/Laptop-GPS Travel Box** (take out excess chargers)
- Shoe driers (12V and 110V) (winter only) (from overnight bag in bedroom closet)
- Everyday shoes** (Summer: Teva Sandals, Winter: hightop walking shoes) (from bedroom/bedroom closet)
- Lightweight duffel for pulling stuff out of duffel to equalize weight or for extra stuff
- Plastic clipboard with forms storage, pens and DMAT Medical Record and other forms
- Sorel winter boots and liners (winter only)
- Disaster Pack** (Gregory Gravity pack, about 3800 cubic inches): fill with items in italics from SAR Gear Bag and SAR Pack lists, above
 - top pocket**
 - Nalgene 1-liter water bottle
 - Alosak plastic bag with
 - Nalgene bottle (60 mL) with sunscreen (SPF45)
 - Nalgene bottle (30 mL) with insect repellent (Cutter Advanced: currently best insect repellent)
 - leather work gloves (Bucket Boss type) with minibiner
 - Building escape kit: 70' of 7 mm nylon rope, in rescue coil, pear-shaped locking carabiner for Munters hitch rappel, and 10' 1" webbing for diaper seat
 - 4 spare waterproof mini SAR notebooks
 - laminated index of DMAT Pharmacy Cache
 - pair of hearing-protection earplugs
 - Sea to Summit 2.5 gallon (10 L) "Pocket Shower" water bag (add from SAR Pack)
 - Garmin GPS 60 CSx belt clip and protective case, and two hipbelt detachable pockets (add from SAR Pack)
 - Back Pocket**
 - Biking Camelbak** (summer only; hanging inside coat closet)
 - Austere Toilet Kit**
 - in separate large net bag for drying: 1 large and 1 small PackTowl

¹⁰ Trailer DOT reflective-tape Conspicuity Kit from eBay provided cheap source of such strips. In cardboard sleeve to protect them from folding/breaking.

¹¹ VersaBrite II from Pelican with a Strapit headband; can position light between eyes for seeing into noses, ears, etc.

¹² All wicking and fast-drying, except the socks; no artificial-fiber socks work as well as wool. Yet.

- in separate large net bag for drying: washcloth made from piece of Packtowl
- Contacts solution, contacts case, razor, Q-tips
- Pocket tissues
- Tampax¹³
- 2 Travel Bath towels, sealed in bags
- Toothbrush and paste, floss, flossers, Stimulents
- Comb
- track shorts
- CoolMax tank top
- 2 REI 1-ounce clotheslines (www.rei.com)
- Water:** two water purification mesh bags with filter pump and MiOx unit (if not in SAR pack, check daypack or bike panniers)
- Cooking:** MSR multi-fuel stove, new unused fuel bottles, gas siphon
- Food** (3 days' worth if combined with what's in SAR pack) (add two additional Lock and Lock boxes of food from SAR Gear Bag and SAR pack to make 3 days' worth)
 - Freeze-Dried Food:** 2.6L Lock and Lock box¹⁴ with 3 freeze-dried Mountain House or Natural High dinners ("Serves 2" – yeah, if you're not hungry)
 - No-cook food,** in 1.9L Lock and Lock box (from SAR Pack)
 - Extended Food:** 2.6L Lock and Lock box (take out unless known extended austere deployment)
 - 6 1-liter packets of Gatorade mix
 - 2 4-oz. packets of walnuts, sealed (with commercial food bags sealed with a commercial heat-sealer, with oxygen-excluder packets in each)
 - 6 oz. Stoned Wheat Thins sealed in bag
 - 1 lb (6 blocks) of Mainstay compressed emergency food rations¹⁵
- Eating:** Large Aloksac plastic bag with
 - Lexan knife/fork/spoon/soupspoon
 - Orikaso folding cup, plate, bowl¹⁶
 - small mesh bag with small bottle of dishwashing soap and scrubber
- Shelter:** Small tent (orange stuffsack, MSR Hubba) for winter or Hennessy hammock for summer (from back of vehicle)
- Sleeping:** ThermaRest Prolite 4 sleeping pad (from back of vehicle)
- Sleeping:** Sleeping Bag stuffsack with liners, lumbar pillow and stuffable pillow (in winter, also include

- auxiliary stuffsack with down booties and overboots) (from back of vehicle)
- Survival/Junk Bags** (two) (from SAR Pack)
- SAR Stuff bag (take out flares/smoke/load strap if traveling by air) (from SAR Pack)
- WEMSI Personal Medical Kits (three red bags in black REI daypack from back of vehicle)
- backup GoreTex jacket (winter only)
- Travel waist pack:**
 - Small (500 mL) Platypus collapsable water bottle: (fill from water fountain once through security at airport)
 - ThermaRest "neck" pillow with eyeshades and earplugs
 - bandannas (2), minibiners (2), elastic straps for head to keep head from flopping around when sleeping sitting up in the back of a C-130
 - food: several food bars and some nuts
 - small book
 - toilet paper in Ziploc bags
 - 2 Travel Bath towels, sealed in bags
 - Toothpaste and toothbrush
 - Waterproof notebook and pen
 - Bluetooth keyboard for Treo
- 24-hour "ready" pack:** use Tumi (Deluxe Computer Briefpack) pack, add to it/leave in it:
 - Everyday Emergency Kit (move EEK buttpack to outside to make more room for stuff inside if needed)
 - Top Compartment:**
 - Umbrella
 - ¾" flat black nylon webbing straps with Fastex buckles (for attaching things to lash patches I sewed to top of Tumi pack)
 - Glasses case (Oakley Vault small) with
 - Glasses
 - contacts case
 - Contacts Solution
 - Glasses keeper cord
 - Otterbox 1921 Treo case with belt clip
 - Gamin 60csx handheld GPS unit with
 - belt clip
 - USB cord
 - USB extension cord (above not quite long enough to use with laptop in car; can hand on rearview mirror and works well as external USB GPS for laptop)
 - Garmin City Navigator maps for entire continental USA loaded on 2 GB micro-SD card (installed), along with topo/water overlays for SW PA
 - Spare preformatted micro-SD card with topo maps for Eastern Great Lakes area from Garmin (in battery compartment)
 - Spare belt clip for Treo (Seidio: excellent clip)
 - Grey pouch with
 - Personal meds: Pulmicort, Atrovent and albuterol inhalers, steroid and Atrovent nasal spray, Pepcid; Kleenex; one food bar; small roll of color code tape
 - Ear buds for Treo

¹³ No, no, not for me—to sell to desperate women. Sometimes worth their weight in gold—well, they don't weight very much, do they?

¹⁴ Available at Target stores; cheap, sturdy enough to be crush resistant (though not so much as an Otter or Pelican box, only a fraction of the weight and bulk), waterproof and airtight.

¹⁵ Take a block, crumble into a cup. Add about a cup and a half of hot water. Stir. Wait for a few minutes. Makes an OK breakfast cereal, especially if you add raisins. Not as good as the old Mainstay rations, which made really good cream of wheat.

¹⁶ This clever "origami" style folding cup and dish/bowl fold flat for storage and are very light and easy to clean. About \$5 each.

- Sil-nylon pack raincover (XS, www.granitegear.com)
- Side compartment:** pouch with
 - Various Hospital IDs and clip for FEMA/DMAT IDs (IDs in wallet)
 - Oral B Travel Toothbrush and small toothpaste
 - Grey pouch with
 - AC > auto power adapter
 - auto > USB power adapter
 - 2 - short USB Treo power/sync cords
 - ZipLinq RJ-11 Modem cable and dual-female connector
 - ZipLinq RJ-45 cable
 - Targus USB LED light for laptop keyboard
 - iGo powerXtender Battery Operated Charge/4 AA lithium cells (will recharge Palm or cellphone from AA cells) with A43 Treo connector
 - auto > iGo Dualpower adapter
 - iGo DualPower adapter cable with A43 Treo connector
 - 2 GB thumb drive for laptop backup (also keep 2GB and 512KB USB keys on laptop)
 - 2 reflective armbands
 - Small cloth (1/4 of a red shop towel; for cleaning glasses, camera, laptop)
 - 1 3mL bottle of dried habanero pepper (for boring food)
- Side Compartment:** with
 - Field-programmable amateur handheld VHF/UHF radio (Yaesu FT-60R) with charged NiMH battery pack (**take out for disasters, usually**)
 - spare charged NiMH battery pack (**take out for disasters, usually**)
 - extra antennas: long BNC whip, etc.
 - extra AA cell battery pack and AA cells (6 lithiums, 6 alkalines)
 - extra empty 12-cell AA case (can usually buy and fill with AA cells locally)
 - auto power adapter
 - clip-on external auto antenna BNC mount
 - BNC > SMA and SMA > BNC adapters
- Small back lower compartment** with pens, combs, small (5 mL) contacts solution bottles, waistbelt and sternum strap for pack, Strapit Velcro stretchy straps to strap jacket onto pack
- Large back lower compartment** with:
 - Sprint PanTech AirCard (high-speed wireless access)
 - External high-gain antenna for PanTech AirCard
 - Bag with small tools and "stuff":
 - Husky 8-in-1 Precision Screwdriver Set¹⁷ with following bits (some from a separate 8-in-1 Torx version of the same screwdriver set): Slotted 1/16", 5/64",

¹⁷ Overall lighter and smaller than similar offerings from Sears and Kronus; approx. 1.5 ounce.

3/32", 1/8" (1-2); Phillips #000, #00, #0, #1; Torx T4, T5, T6, T7, T8, T9, T10, T15

- Sears Craftsman 947483 Magnetic 32-piece Screwdriver Set with selected bits only¹⁸: slotted 3-4 (5/32"), 8-10 (1/4"), 12-14 (3/8"), 14-16 (29/64"); Phillips #2, #3; Torx T20, T25; Hex (Allen) 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16"; 1/4" hex to 1/4" square adapter; some bits in handle, others in a 1-ounce wide-mouth Nalgene container.
- Lutz 2-in-1 Phillips #1 and 5-6 (3/16") slotted screwdriver¹⁹
- Small Channel-lock pliers
- Leatherman Squirt E4 electronics tool (with wire stripper, with knife broken off to pass TSA security for flying)
- Radio Shack contact cleaner pen
- Radio Shack pocket digital multimeter
- Lightweight magnifiers: Model CO5: 2.5x 8" focal distance, from Donegan Optical Company²⁰
- cable ties:
 - (i) 4 - 2"
 - (ii) 2 - 4"
 - (iii) 2 - 8" (with mounting hole at end)
 - (iv) 2 - 10"
 - (v) 2 - 15.5" releasable
- Self-drilling screws:
 - (i) 12-14x1"
 - (ii) 10-16x1.5"
 - (iii) 5/16" socket for driving these with above 32-piece screwdriver
- spare Treo stylus
- 4 tiny strips Radio Shack easy-melt solder
- Part-full 24-tablet bottle of generic Aleve (to give out to others)
- Miniature sewing kit (1 ounce)
- spare non-slip inside-heel pad for shoes
- spare tongue pad for shoes
- Spare multipurpose contacts solution: 2 3 mL dropper bottles, 1 8 mL dropper bottle
- 2 - tampons, in Aloksak plastic bag
- 2 safety pins
- Nail file
- Highlighter
- Sharpie
- Mechanical pencil
- Checkbook
- Extra business cards
- Logitech nano wireless laptop mouse

¹⁸ Seems lighter than any other similar combination I've found; 7 ounces as specified.

¹⁹ Long thin shaft for recessed screws; wt. 1 ounce.

²⁰ Will work by themselves or can be clipped to glasses; 4 ounces including separate protective cases for glasses-frame part and magnifier part.

- Lightweight Panasonic CF-W5 laptop AC power supply (switch with iGo AC/DC power supply with both AC and DC cords from Car Laptop/GPS Travel kit box; and add Powerstripsaver, AC cheater, and AC extension cord from on top of books next to Color Laserjet in home office)
- Main Compartment**
 - Light GoreTex parka (Patagonia, www.patagonia.com)
 - Light GoreTex pants (Cloudveil www.cloudveil.com)
 - Ultralight stuffsack with Goliath ultralight insulated vest, thin Balaclava and thin gloves
 - Ultralight softshell jacket (Cloudveil Prospector jacket)
 - Everyday Emergency Kit/buttpack (see separate listing)
 - Small Mesh bag travel emergency overnight kit: 30mL Nalgene bottle of shampoo, CoolMax underpants, light Coomax fishnet T-shirt, pr. wool socks. (Already have toothbrush, toothpaste, contacts solution and combs in other pockets of pack.)
 - Laptop
- File pocket on back with**
 - clear document wallets (4)
 - Laptop sunscreen (add from car or elsewhere)
 - travel documents

VI. Miscellaneous Gear Bag²¹

- White shoe polish and ¾" yellow vinyl tape for marking windshields for convoys; in Aloksak plastic bag
- Light:**
 - Eveready fluorescent D-cell lantern with lithium cells
- Water:**
 - 3 1-liter bottles (full)
 - MSR water bag if not on pack
 - Backpacking PUR water filter (superseded by small filter/MiOx unit)
 - Extra canisters for backpacking water filter
 - Empty 2.5 gal water bag and bladder
 - Seattle Sports folding bucket and basin
 - Sea to Ski Pocket Shower
- Shelter:**
 - Disposable compressed sleeping bag
 - Roll of leaf bags
 - Wad of smaller trash bags
- Clothing:**
 - Small size Pack Towel
 - Old Goretex parka/pants
 - Spare nylon pants
 - Bag with spare gear:
 - 2 wool balaclavas
 - 1 pair wool mittens
 - 2 pair brown fleece gloves
 - pair wool socks and liner socks
 - leather gloves
 - cheap compass and 2 whistles
 - spare goggles
- Food (in mouse-resistant boxes):**
 - MRE/Fireline Meals: 4
 - MRE heaters: 3
 - Can of dried greens: 1
 - Granola bars: 1 box
 - Bacon bits: 1 small can
 - Survival (cream of wheat) bars: 1 package
 - Quick-cook dried veggie meals: 3
 - Lexan lunchbox: 1
- Stove accessories:**
 - Windscreen
 - Base
 - Extra fuel canisters (1 small, 1 large)
 - Large Pots, potscrubber and detergent
 - Cups and plates and utensils (2 each)
- Tools etc:**
 - Spare set of Aloksak zipper plastic bags
 - Folding saw
 - Survival knife
 - Magnifiers

²¹ Miscellaneous Bag, SAR Gear Bag, Caving Gear Bag, and Technical Rescue Bag are Patagonia boot/duffel bags, circa 1990, which I don't see in the catalog any more. Uniform size and shape makes packing the back of the truck easier. Each is labeled with a 3x5" laminated tag with the name of the bag on the front, and my name/color code/contact information and a brief contents on the back, attached via a 2" Versalink type ketchchain put through a brass grommet on the tag and then around a zipper pull; similar tags on the SAR pack, tool kit, etc.

- Solar Still
- Daypack
- Frisbee
- Cards
- Organic vapor respirator
- 10' 1" flat black pack webbing
- 1" black nylon pack webbing hardware: 2 ladderlocks, 2 triglides, 1 adjustable buckle, 2 D rings
- 2" adjustable buckle and 2 2" triglides
- 1 cordlock
- 1 Zipper Repair Kit (www.rei.com)

VII. Items Loose in truck (everything in green goes into disaster pack/duffel for disasters; add items in red)

- laptop sunscreen** (usually to the left of the front passenger seat)
- Computer Misc. Box** (note: two USB keys, one 512MB and one 2 GB, on personal keychain; have two so that there is a second backup for robustness/redundancy/sharing)
 - CD-Rs (2) and DVD-Rs (4) in thin cases and small and large Sharpie for marking
 - 2 - Modem cords with female-female adapters
 - USB printer cable
 - adjustable-angle female>male USB adapter
 - lightweight USB 1 > 4 hub and AC power supply
 - Micro-SD>SD card adapter (note: Treo has Micro-SD>Mini-SD adapter in it)
 - Sandisk Imagemate 12 in 1 photo card USB adapter **(add from desk, USB cord's already in the box)**
 - FT-60 USB handheld radio programming cord (www.usb2ttl.com) and cloning cord
 - iGo Juice70 Laptop AC/DC Power Supply with AC and DC cords, also cords for Palm and Cellphone and Auto Charging Plug for dualpower accessory
- Charger Box/Car Laptop/GPS Travel kit**
 - Drop-in charger for handheld radio **(take out unless taking rechargeable batteries)**
 - AC power cord for above **(take out unless taking rechargeable batteries)**
 - 12V power cord for above (with PowerPole connectors thence to a auto plug) **(take out unless taking rechargeable batteries)**
 - Treo AC charging system:
 - Cradle (charges Treo and one spare battery)
 - AC charger cord
 - USB sync/charge cable (will NOT charge when plugged into some AC USB adapters, but seems to when plugged into a computer)
 - Nikon D50 camera battery charger **(take out unless taking big camera)**
 - 1 Powerstripsaver
 - 1->3 AC adapter
 - 1 short Monster 1->3 extension cord
 - 1 4-way PowerPole adapter
 - Powerpole 1>2 12" extension cord/adaptor
 - PowerPole-female cigarette adapter cord

- Garmin GPS60csx vehicle suction-cup mounting kit with 2 mL squeeze bottle Windex and lightload compressed towel for cleaning windshield for mount
- 12V PowerPole power cord with battery clamps
- iGPS USB magnetic-mount GPS antenna/receiver
- Seido GT4500 Treo vehicle non-permanent mount handsfree kit
- FRS Radios:** 4 cheap FRS radios with spare AA alkalines
- Charcoal Vest** HeatPac hypothermia rewarming device with 18 hours of fuel in Pelican box
- Mini-Opkit** (in a file box)
 - Equipment**
 - File Case with label on outside
 - File Case insert, slide-in style, with
 - 2 sets of dry-erase colored markers
 - 2 sets of colored highlighters
 - several pens
 - roll of 2" clear adhesive tape
 - Canine Resource Capabilities Summary forms
 - File Case insert, flip-open style, with
 - 2 Scotch tape dispensers
 - 1 small roll KC color code tape
 - paper clips
 - 1 pr. Scissors
 - 1 stapler
 - spare staples
 - mini-grid overlays
 - protractor
 - Canon i80 color inkjet printer with
 - USB cord
 - Power adapter
 - spare ink cartridges
 - blank paper (~75sheets)
 - Extension cord, 30'
 - Powerstrip Saver
 - 2 > 3 prong power adapter
 - 1 > 3 3-prong adapter
- Maptech CDs for VA, WV, MD, PA (part of Ohio)
- Mission Folder Set:** Two Sets of Five Master Folders for search:
 - General File
 - Area Poster Signs: Staging Area, Operations, Sign-In, Commo
 - Daily Form #1: Command Log (4 sheets)
 - Daily Form #2: Table of Organization (1)
 - Daily Form #3: SAR Unit Personnel Register (4 sheets)
 - Daily Form #4: Local Volunteer Personnel Register (4 sheets)
 - Daily Form #5: Vehicle Register (4 sheets)
 - Daily Form #6: on Tasks Completed Folder (1)
 - Daily Form #7: on Tasks in Progress Folder (1)
 - Daily Form #8: Communications Log (4 sheets)
 - Daily Form #9: SAR Resources Worksheet (1)

- Incident Form #1: Missing Person Questionnaire (1)
- Incident Form #2: Incident Objectives (1)
- Incident Form #3: Medical/Evacuation Plan (1)
- Incident Form #4: Communications Plan (1)
- Tasks to be Done (with 10 Task Assignment Forms, dual stapled forms, ready for carbon paper)
- Tasks in Progress (with Daily Form #7: Clue Log attached to front)
- Tasks Completed (with Daily Form #6: Task Log attached to front)
- Tasks Not Done
- Other Folders
 - Folder: Transparency Masters (20)
 - Folder: Grid Overlays (3 each of clear in vertical and horizontal, and one of both vertical and horizontal in green, yellow, red, blue)
 - Folder: Carbon Paper
 - Folder: Transparency Masters (for copier)
 - Folder: blank paper (for copier) (about 100 sheets)
 - Folder: Searcher Information Sheets (about 20)
 - Folder: Essential Documents
 - Pennsylvania State Highway Map
 - Pennsylvania USGS Topographic Map Index
 - ICS Field Operations Guide (ICS-420-1)
 - Search is an Emergency Field Coordinator's Guide
 - Folder: Originals to Photocopy (PSARC Forms Packet, PSARC Grid Overlay)
 - Folder: Spare Forms
 - Folder: Cave Rescue Forms
 - ER-NCRC Level of Urgency Chart (1)
 - Personnel Log (1)
 - Communications Log (1)
 - Entrance Control Log (1)
 - Equipment Log (1)
 - Rescue Event Log (1)
 - Lost Person Questionnaire/Checklist
 - Mission Personnel Register (1)
 - Medical Assessment Flow Sheet (1)
 - Mini-Information Form (1)
 - ER-NCRC Task Assignment Form, double, with carbon paper (10)
 - Spare Folders (10)
- Helmet** with 2 lights (HDS Systems ActionLight III on order to replace old ActionLight I; Princeton Tec 4-AA cell halogen flashlight with improvised diffuser mounted to helmet with mounting-style cable ties)
- Hanging Clothes/etc.:**
 - Tilley hat (add to Tumi Pack for disasters)**
 - Best GoreTex Parka (Marmot Glenmore) with hat, facemask and gloves
 - Powerstretch fleece pullover (LL Bean)
 - Thick fleece jacket (Lowe)
 - Fleece stretch tights (Lowe)
 - Softshell jacket (Cloudveil Serendipity) with Cloudveil hat, facemask and winter gloves
 - Primaloft vest (Cloudveil Enclosure)

- Expedition down parka and pants and mittens (for standing around for long periods in cold weather)
- ASRC Uniform Shirts:
 - Short-sleeve cotton shirt
 - Long-sleeve cotton shirt
 - Long-sleeve CoolMax shirt
 - Long-Sleeve lightweight polyester fleece/chamois shirt
- Large Mountainsmith lumbar pack** ("Cairn"²²) with two full 750 mL water bottles, spare LED headlamp, spare flagging tape, Water bottle/water bottle belt pouch (contents for quick access while driving; pack for short warm-weather tasks with Everyday Emergency Kit from everyday pack instead of most of SAR gear)
- DMAT uniform** for local deployment
 - team t-shirt
 - uniform blouse
 - uniform pants/belt
 - team hat
 - below hanging clothes: combat-type boots with zip-up inserts (summer Danner Striker GoreTex boots or winter Matterhorn ATD insulated boots, depending) with two pair Rohner brown trekking wool socks (add to Disaster Duffel)
- DMAT/SAR Base Buttpack:** on separate hanger: large buttpack²³ for local deployments with
 - laptop computer sun visor
 - big Aloksak plastic bag (for laptop computer when it's raining)
 - big goggles
 - hearing protectors
 - leather work gloves (Bucket Boss type) with minibiner
 - bag of flagging tape
 - small bottle of waterless handcleaner
 - neck lanyard/ID holder
 - PolarWrap sport rebreathable flap
 - 2 water bottles full of water in side pockets, and one bottle full of water in separate belt pouch
- Sleeping bag stuffsack**
 - Sleeping bag (3-season or winter: Western Mountaineering down bag)
 - Polypro liner
 - Silk liner
 - ThermaRest Stuffable pillow
 - ThermaRest Lumbar pillow
 - Extra stuffsack with:
 - Down booties

²² The Cairn model is big enough to fit both the Everyday Emergency Kit small buttpack (which is almost always with me) and a laptop computer along with a few other things. Handy for carrying at a base somewhere—especially when you don't want to leave your laptop laying about. Yes, you could use a daypack, but a lumbar pack is a lot easier to manage when you're taking it off and putting it on over and over. Also, the lumbar pack with the Everyday Emergency Kit and a couple of other items from the SAR pack makes a dandy pack for a short SAR task in warm weather.

²³ Mountainsmith Cairn: large enough to carry Everyday Emergency Kit, laptop, and certain additional items; quite useful when doing management tasks but must be able to respond immediately to any sort of medical emergency.

- Overboots for staggering around in deep snow in down booties
- ThermaRest ProLite 4 Regular** inflatable pad in stuffsack (Stuff Sack TL R: heavier than official ProLite 4 stuffsack but better for attaching to pack) with repair kit in bottom of stuffsack
- MSR Hubba one-person tent and Hennessy Backpacker Asym Ultralight hammock** with extra screw-eyes to mount on buildings, Kelty Triptease Lightline (www.kelty.com) as high-visibility replacement for rainfly pullouts, and added Lazr Hi-Vis titanium tent stakes from Bozeman Mountain Works (www.backpackinglight.com)²⁴
- Army blanket to cover everything
- Tracking stick (old bamboo XC ski pole without basket but with rubber bands)
- Flotation vest and polypro throw rope in bag
- Spare VHF/UHF ham handheld radio (Yaesu FT-60)
- Ice Axe
- Ski Poles or walking poles
- MSR Snowshoes
- Old down parka (stuffed)
- Vehicle Equipment²⁵
 - Treo handsfree kit/charger with external antenna
 - Jottodesk, connected to Garmin GPS-18 mounted on roof, with iGo 12V power supply for Panasonic CF-W5 laptop; also with iGo DualPower accessory with A43 tip for charging Treo
 - VHF/UHF/ham mobile radio
 - 12V/AC charger for FT-60 handhelds/batteries
 - Misc maps (including spare highway maps to give away)
 - Spare Versabrite II headlights (2) mounted on sun visors
 - Glove compartment:
 - Velcroed to inside of top lid
 - Kleenex
 - Tire gauge
 - Rack keys
 - Utility scissors (Fiskars serrated kitchen scissors)
 - Left Front
 - Paper towels

²⁴ If you browse any of the Internet information on backpacking hammocks, you'll see that these hammocks, though expensive, are the darling of ultralight backpackers. Once you figure it out, you can set it up in under 3 minutes, as long as you have two somethings (trees, telephone poles, road signs, etc.) on which to tie the ends of the cords. Having a couple of tie-outs to either side is also very helpful. You can put it in places where there is neither room nor any flat place without rocks to pitch even a 1-person tent. An open cell pad to insulate underneath can replace your ThermaRest pad—but, due to concerns about the open-cell foam getting wet, and about not being able to use it if you pitch the hammock as a tent, I've given up on this and just use a ThermaRest instead. Although it can be pitched as a tent, the open cell pad won't work as insulation this way, and you need a couple of stakes and something to use as a pole. A quick and handy shelter wherein to sleep for a few hours for when you're in a hurry—I also lived in it for about two weeks when deployed with a Disaster Medical Assistance Team team—much nicer than being in the big tent.

²⁵ Vehicle is a 1988 Range Rover, a bit beat up, with an ARB bar and 9000-lb Warn winch on the front, extra offroad lights on the ARB bar, two batteries with an isolator, an external spare tire carrier, Thule bike rack on the back and Thule roof rack with bike racks and a canoe/Stokes litter rack attached to it.

- Hand sanitizer
- 3 GoJo hand cleaner towels, individual packets
- Lens cleaner cloth
- Contact cleaner pen (for cellphone handsfree kit, etc.)
- Left Middle
 - Chewable ASA 81 mg tablets
 - Chewable Pepcid tablets
 - Emergency Backup Binky
 - Hair rubber bands
- Left Back
 - Headlamp
 - Monocular
 - 4 spare AA lithium cells and 4 spare AAA lithium cells
 - roll of quarters (for tolls)
- Right Front
 - Reflective Mountain Rescue safety vest
- Right Middle
 - Glass signal mirror
 - 4 pair nitrile exam gloves
 - CPR shield
 - Cat Crap lens treatment
 - Antenna cap
 - Small hearing protectors (earplugs)
- Right Back
 - Swisstool "Leatherman" tool
 - Swisschamp swiss army knife
 - Supertape
 - Small roll duct tape
 - 6' measuring tape
 - small reversible screwdriver
 - Sharpie marking pen
 - Type 13 Anti-Seize (for antenna mounts, etc.)
- On mirror/visor: Sunglasses and spare sunglasses
- Under seat:
 - Small inverter
 - 110V adapter for handheld radio charger (can be demounted from vehicle then plugged in to 110V)
- Behind seats in pockets
 - Vehicle maintenance records; ham repeater atlases/maps; reference manuals for stereo, VHF radio, etc.
 - Toys for kids to entertain themselves with so they don't destroy the car
 - Common atlases of the area
 - Windex
 - Large umbrella
 - Inflatable Travel Pillows (2; for naps along the road)
 - Sun visor for laptop
- In bag hanging from armrest:
 - Extra Teaching Company CDs (for those long drives—best way to stay awake: www.teachco.com)
- Attached to back of back seats²⁶
 - Large truck-style cross lug wrench²⁷

²⁶ Attached using standard hardware-store spring clamps, attached with self-drilling screws.

²⁷ Range Rovers have large tires and require a truck-sized lug wrench.

- Snow brush/scrapper
- squeegee/window scrubber
- Life-Link snow shovel
- Spare high-gain 2m/VHF antenna (have antenna mount on roof, used mostly only when vehicle stationary)
- Canvas grocery bags/cotton produce bags and Nalgene bottles for bringing home olives in brine, smoothies, etc.
- Large Medical Pack (REI travel pack; not currently indexed, but full of lots of medical stuff, believe me)
- Attached to inside of tailgate: Hi-Lift 48" jack with attachments and instructions
- Set of hand extrication tools, etc.
 - leaf spring tool (handmade, for cutting)
 - hand sledge hammer
 - hatchet
 - 2 titanium pry bars
 - bolt cutters
 - mini-KT-bar (extrication/wrecking tool)
 - 1970s-era Air Force aluminum survival tool with hatchet, shovel, saw
 - 12-V tire pump
 - Large base for Hi-Lift Jack
- Optional (only added when actually going out for trail maintenance, or if known downed trees from a storm):
 - Set of trail construction/maintenance tools on heavy leather tool belt/tool pouches
 - Woodsman's Pal machete/brush hook
 - Pocket folding loppers (Lee Valley Garden Supply)
 - Buck lightweight pruning shears (www.sarcamp.com)
 - Folding SvenSaw
 - Single-bitted axe in aluminum sheath (sheath from Madsen Logging Supply)
 - Glock entrenching tool²⁸
 - Stihl Chainsaw
 - Ryobi Weedwhacker
 - Gas and oil for above
 - 10-lb sledge
 - Grass whips (2)
 - Non-folding loppers
 - Large shovel with cutting edge
- Large vehicle Tool Kit
 - Electronics Tools
 - Soldering Irons: 12V, 110V, butane (with lighter-style butane refill tank)
 - Small solder (including low-melting-point solder strips, work with lighter)
 - Misc RF adapters (BNC, PL-259, TNC, SMA)
 - BNC coax patch cables with BNC M/M
 - Pocket multimeter with spare batteries
 - Wire crimper/stripper
 - Electrical Equipment
 - Continuity tester
 - AC extension cord
 - Pocket AC circuit tester

- Roll of electrical tape
- car fuses (many kinds and ratings) and fuse puller
- Light socket to AC adapter
- Radio Shack Leatherman Squirt EL mini tool (with wire stripper, etc.)
- Nippers
- Hand Tools
 - Large and small Vise-grips
 - Sears Craftsman ignition pliers (small)
 - Alltrade needlenose/standard pliers combination
 - Heavy-duty scissors
- Wrenches (all Sears Craftsman except as noted)
 - Large and small crescent wrenches
 - Adjustable box-end wrench
 - Metric and SAE-Imperial hex key sets, folding
 - Metric wrenches in rolled case:
 - combination wrench set: 8mm-16mm
 - box-end wrench set: 6mm-18mm
 - ignition wrench set: 4mm-11mm
 - SAE-Imperial wrenches in rolled case:
 - combination wrench set: 3/8"-11/16"
 - ignition wrench set: 13/64"-3/8"
- Socket/hex tools (sockets on Craftman racks):
 - AmPro stubby 1/4"-3/8" ratchet handle
 - Skewdriver® offset hex handle
 - generic hex screwdriver-style ratchet driver with set of bits in handle
 - 6" long hex Phillips screwdriver tip (for deeply-inset screws)
 - 1/4" ratchet handle
 - 1/4" screwdriver-style handle driver
 - 1/4" 3" extension
 - 1/4" 3" flexible extension
 - 1/4"/hex finger-wheel driver
 - 1/4" metric sockets, 5-6-7-8-9mm
 - 1/4" SAE-Imperial deep socket set, 1/4"-1/2"
 - 3/8" 2.5" and 6" extensions
 - 3/8" metric deep socket set, 10-19mm
 - 3/8" metric/SAE-Imperial combination socket set: 3/8"-10mm to 7/8"-22mm, also 12, 18 & 24mm
 - 1/2" drive ratchet handle with extra sockets in handle
 - 1/4" drive ratchet handle with extra sockets in handle
 - 1/2" drive 24 mm socket
 - 1/2" drive spark plug socket
 - 1/2" to 3/8" and 3/8" to 1/4" adapters, each both ways
- Small reversible Philips/standard screwdriver
- Craftsman small long screwdrivers, standard and Philips
- Offset standard and Phillips screwdrivers
- Set of 4 small Phillips screwdrivers
- Jeweler's screwdriver and nutdriver sets

²⁸ Lighter and stronger and better built than all others I've tried.

- Stubby Philips and standard screwdrivers
- Mini-hacksaw and extra blades
- Type 13 Anti-Seize lubricant in tube
- Mini-pry bars (2)
- Spare batteries: 9V (2: lithium), AA (8: lithium), AAA (6), C (4) D (2)
- Spare mag-mount 2m/VHF antenna
- Large and small cleaning brushes, and battery-terminal brush
- spare roll of color code tape
- duct tape
- Card stock and sheet protectors and Sharpie marker for posting signs
- Aluminum coathanger
- Thin steel wire
- Plastic kitchen trash bag
- Nuts, bolts, screws, nails, cable tires, spare wire, rubber bands, electrical terminals, small Bunji cords, thumbtacks, packets of epoxy glue,
- Red shop towels
- GoJo hand cleaner towels, individual packets, and paper towels
- Heavy work gloves
- Winch Tool Kit
- 2 Aluminum adjustable jack stands (3 ton)
- 2 folding tire chocks
- Jump cable bag (Duluth Trading Co. Deluxe Jumper Cable Bag)
 - Heavy-duty jump cables
 - Work gloves (Bucket Boss)
 - Gunk pressurized can of tire sealer/inflator
 - Disposable coveralls
 - folding cross lug wrenches, Imperial and Metric (for other cars)
- Fire extinguisher
- Spare tire on back
- Bag of straps for roof rack
- Bundle of road flares
- Box of triage tags
- Needle disposal box
- Bag of reflective Mountain Rescue safety vests
- Mag-mount rotating light with yellow/blue/red lenses²⁹
- Jar of cat litter (for traction)
- Copper ice scrapers (2)

²⁹ For different jurisdictions, as needed; like yellow the best, especially for stopping along the roadside, as people don't get as excited and don't do as many stupid things as when they see a red or blue light.