PURIFICATION METHODS AND TOOLS SUMMARY

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		Effective		Amazon	
METHOD	Pore Size	Against	Capacity	Price	Comments
<u>HEAT</u>					
		Protozoa			One minute roiling boil-cool before use
		bacteria			Effective against most pathogens
Boiling	n/a	viruses			Pour between vessels to improve taste
CHEMICALS					
					2 drops per quart or 8 drops (1/8 tsp) per gal (clear water)
Household Bleach					leave covered for 30 min, double bleach for cloudy water
(without scent or additives)		Giardia			degrades with age, not effective against Cryptosporidium
		Giardia			Effective against Giardia, bacteria and viruses, not
Clearon Aqua Tabs		most bacteria			Cryptosporidum
(chlorine based)		many viruses		\$10.54	Stir for 10 min, wait 30 min.
					Takes 30 minutes, not effective against Cryptosporidium
Potable Aqua Water		Giardia			Not for longterm use (two weeks), or by certain people
Treatment Tablets (50)		most bacteria			Has shelf life (4 years max unopened, under ideal
(iodine based)	n/a	many viruses	6.25 gal	\$5.99	conditions)
					Effective against Cryptosporidium, can use in cloudy
					water
		protozoa			Has shelf life (4 years even if opened), no chemical taste
Agua Mira Chlorine Dioxide		most bacteria			Much stronger germicide than iodine, can use when
1 .	n/a		30 gal	\$13.00	storing water
Drops, 1 oz	11/a	many viruses	30 gal	φ13.00	Storing water

FILTRATION

Aqua Mira Frontier					
Water Filter Straw	2 microns	protozoa	30 gal	\$10.56	can't clean, so it's desposible
		protozoa			
LifeStraw Personal Water Filter	0.2 microns	most bacteria	265 gal	\$19.99	Test to ensure funtionality
		protozoa			Fast flow rate, can use with water bottles, hydration
Sawyer SP 126 Mini Filter	0.1 microns	most bacteria	100,000 gal	\$20.70	bladders
Waves for Water Community		protozoa			
Filter	0.1 micron	most bacteria	1 million gal	\$50.00	Provides water for 100 people a day
Activated Charcoal		no pathogens			Filters some chemicals and organic contaminates

UV LIGHT

		protozoa bacteria	3000		Relies on batteries, only effective in clear water.
SteriPen Traveler UV Purifier	n/a	viruses	1 L treatments		Larger than adventurer, doesn't include battery or case
		protozoa			
SteriPen Adventurer Opti UV		bacteria	8000		Relies on batteries, only effective in clear water.
Purifier	n/a	viruses	1 L treatments	\$65.00	Small, comes with case and two CR 123 batteries

		protozoa bacteria		Requires solar energy or fuel and a vessel and capture
DISTILLATION	n/a	viruses		container