

Safe Drinking Water For the World

**Haines Solar Cookers, LLC
Del Mar, California
May, 2020**



The Haines 2.0 Solar Cooker Can Pasteurize Five Gallons of Water a Day!



- ✓ Over 3,000 Haines Solar Cookers have been distributed worldwide.
- ✓ **Projects** in Mexico, Kenya, Uganda and Haiti, since 2013.
- ✓ **Founder** Roger Haines:
 - Board member,
 - Solar Household Energy.
 - Alliance for African Assistance.
 - San Diego Rotary Club 33.
 - Associate, Solar Cookers Intl.
 - Retired Asst. U.S. Attorney.

The Haines 2.0 is built for power and durability.

- **Mylar reflector will not scratch. Has strong, flexible backing. Is not affected by rain or boiling water.**
- **Clear cooking sleeve insulates and elevates the pot so sunlight is reflected onto the bottom of the pot.**
- **Clear cover permits cooking in wind.**
- **Meets ISO-19867-1 standard for clean cookstoves.**



The Haines 2.0 cooks like a stove, bakes like an oven and folds up for storage.



Cooks
chicken,
vegetables,
rice, beans.

Bakes bread,
cake.

Folds up for
easy storage.



Haines 2.0 set for low sun

**In addition, the Haines 2.0 can provide
5 gallons a day of safe drinking water.**

**All over the
world, people
collect water
from polluted
lakes and rivers
in five-gallon
yellow “Jerry
cans.”**

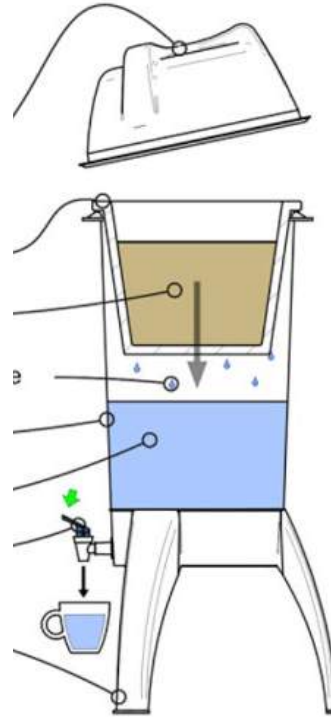
Photo: *Samantha Reinders for NPR*



The problem is the water has disease-causing bacteria. To make it safe to drink, people:



Boil it over a fire.



Pour it through an expensive water filter.



Use expensive chlorine tablets

Now there is a Better Solution: Pasteurize it in a Haines 2.0 Solar Cooker



- Paint the yellow “Jerry can” black.
- Set it in the Haines 2.0 Solar Cooker in the sun.
- In 4-6 hours it will heat to 145 F. (63 C.) and it will be safe to drink.



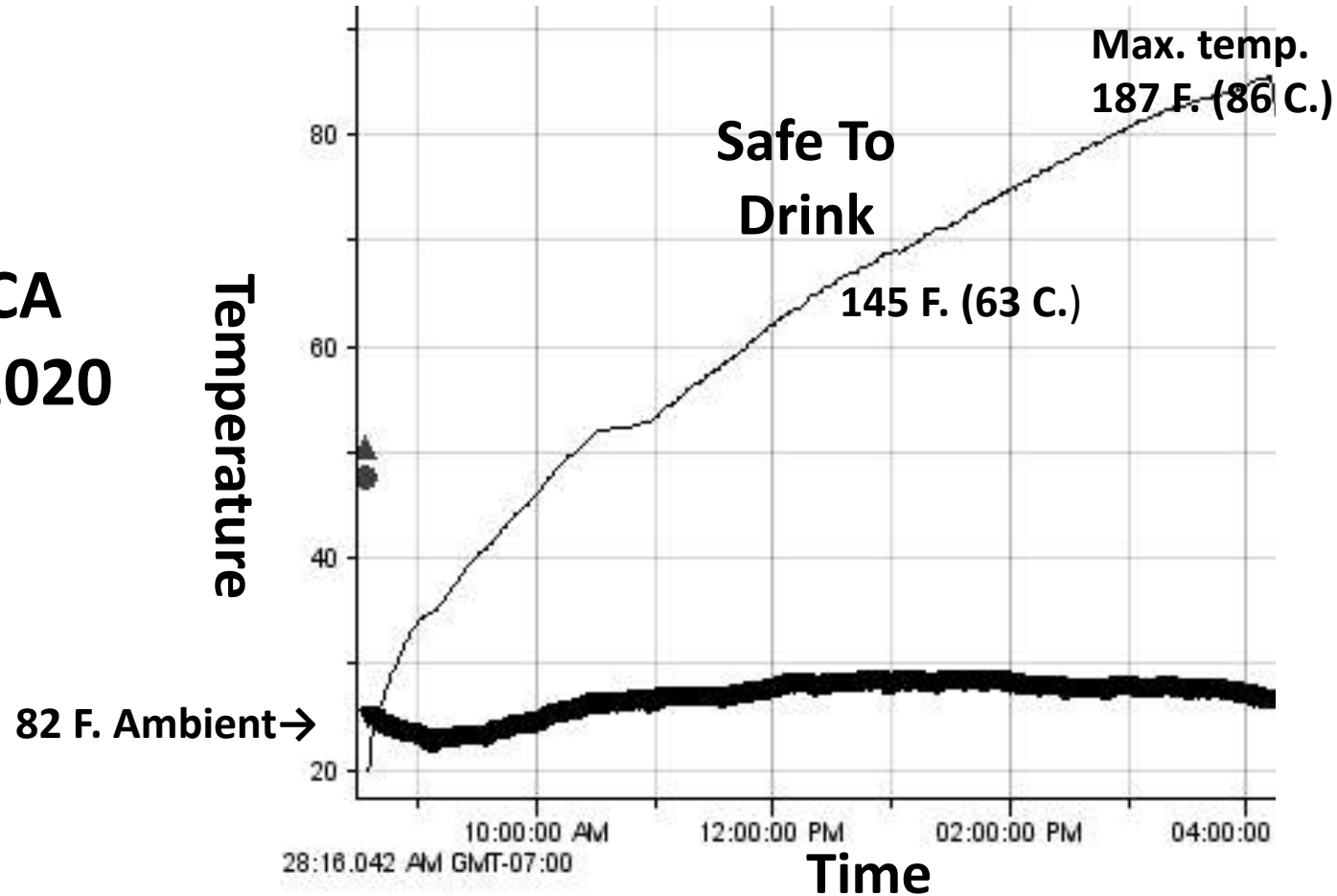
How to Know When It's Safe? Dangle a WAPI (Water Pasteurization Indicator) in the water.

- ✓ Reusable WAPI costs \$1.
- ✓ When the colored wax melts, the water is safe to drink.
- ✓ To reuse, let the wax harden and turn it upside down.



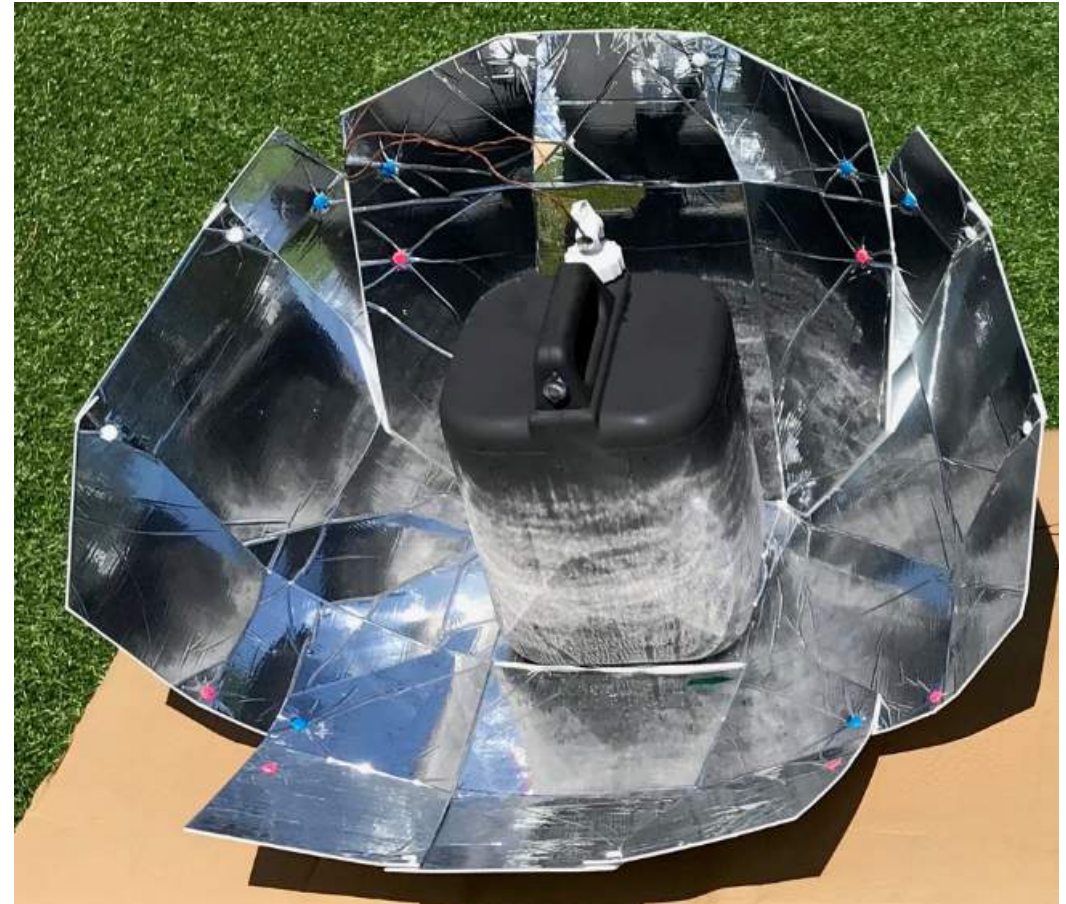
Test results: in 4 hours, Haines 2.0 can heat a five gallon Jerry can to 145 F. (63 C.).

**Del Mar, CA
May 21, 2020**



Note that the Entire “Jerry can” is Safe to Drink.

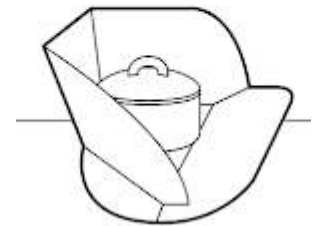
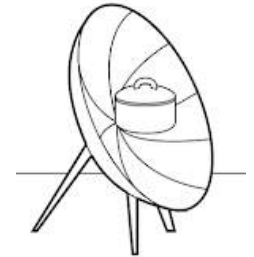
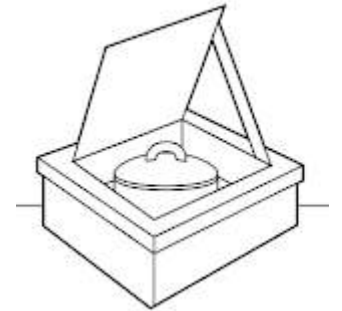
- No need to transfer it to another container.
- Jerry can must be “food-safe, BPA free.”
- Many Jerry cans are “food-grade” cooking oil containers. See <https://www.cdc.gov/safe-water/jerrycan.html>.



Other solar cookers will not Pasteurize a Jerry can of water.



- Haines 2.0 accommodates Jerry can's large size—box cookers are too small.
- Five gallons of water weighs 40 pounds—too heavy for a parabolic cooker.
- Haines 2.0 is more powerful than other panel cookers, which cannot pasteurize an entire Jerry can in a day.



Conclusion: The Haines 2.0 Cooker/Oven/Water Pasteurizer Does It All

- Provides 5 gallons of safe drinking water per day.
- Heats water for tea, or washing and bathing.
- Cooks meats and vegetables quickly.
- Bakes bread and cake.



The Haines 2.0 can dramatically cut the cost of water and fuel in villages and refugee camps.

Imagine every sunny day:

- Five gallons of drinking water without boiling.
- Hot water for tea, or washing and bathing.
- Cooking 2 meals a day.

With NO Fuel!



For More Information, go to:
www.HainesSolarCookers.com



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