Cover Water Storage Containers

**KEY FACTS**
- The containers in the home that store water not used often—once a week or less—can become breeding sites for Zika-carrying mosquitos.
- These long-term storage containers may include tanks, cisterns, barrels, water tanks, or large buckets.
- Covering long-term water storage containers can be effective in reducing breeding sites if a tight fitting, long-lasting lid is available.
- Covering short-term water storage containers is less effective, and even counterproductive, because frequent lid use can result in wear and tear.
- If the container lid is broken or dips in the water, it can become a breeding site itself.
- To be effective, lids must be tight-fitting and used consistently and correctly.

**WHAT**
- Cover long-term water storage containers at all times with a tight-fitting lid that does not warp or touch the water.

**WHO**
- Household members in charge of water storage.

**WHY**
- Containers can become mosquito breeding sites if they are left uncovered with stagnant water inside, or if they have a lid that is broken or dipping in the water.

**HOW TO COVER STORAGE CONTAINERS CORRECTLY AROUND THE HOME**
- Identify the containers in the home that are used to store infrequently used water—water accessed once a week or less. These may include tanks, cisterns, barrels, water tanks, large buckets, and other containers.
- Evaluate whether these containers can be covered with a tight-fitting lid.
- Cover only the long-term water storage containers.

**COVER CONTAINERS WITH TIGHT-FITTING LIDS THAT DO NOT CRACK OR WARP**
- Lids for long-term water storage containers should block entrance of mosquitoes that try to lay their eggs on the interior walls.
- Some containers cannot be covered well, for example, pilas (cement washbasins). For these containers, families should focus on cleaning the containers to remove mosquito eggs (see Remove Mosquito Eggs From Water Container Walls).
- Barrels and round tanks are better suited for lids that seal tightly.
- Be aware that not all lids can stop mosquitoes from entering. To be effective, the lid should have the following characteristics:
  - The lid should make a very tight seal. If it does not seal well, the lid can have the opposite effect, providing shade and making the water container more favorable for a mosquito to lay its eggs.
  - The lid should not touch the water, especially if it is made of cloth, because small pools can form where a mosquito can lay its eggs.
  - If the cover is made of cloth, the fabric must allow rainwater to pass through it, so that water does not accumulate on top.
  - The lid must be made of a material that does not crack or warp in the heat or the sun.
  - A metal mesh with holes smaller than the size of an adult mosquito may be used, as long as it remains in
perfect condition and seals tightly.

- Use the lid at all times.
- Keep the lid in excellent condition and replace if it begins to warp or crack.
- Remember that it is better not to cover water containers at all than to cover them partially or inconsistently.

**TIPS FOR PROMOTING THIS BEHAVIOR**

- Focus on members of the household in charge of long-term water storage containers.
- Explain that the lids must seal well and have all the features described in the instructions found in this section.
- Combine efforts to cover long-term water storage containers with other behaviors: cleaning the interior walls of water containers and eliminating mosquito breeding sites in communal areas.

**SUPPORTING EVIDENCE**

- Morales-Pérez A. et al., 2017. “*Aedes aegypti* breeding ecology in Guerrero: Cross-sectional study of mosquito breeding sites from the baseline for the Camino Verde trial in Mexico,” *BioMed Central Public Health* 17(1).

**ACKNOWLEDGMENTS**

This PDF was produced as part of an online guide that was developed by the Population Reference Bureau (PRB), a partner on the Breakthrough ACTION + RESEARCH consortium. The guide draws from two Breakthrough ACTION + RESEARCH reports, “Technical Specifications Content Guide for Behaviors With High Potential to Prevent Zika” and *Zika Prevention Behavior Matrix*. Reshma Naik, program director at PRB, provided technical direction for the online guide and Lori Ashford, independent consultant, developed the content based on technical reports written by staff from Breakthrough ACTION + RESEARCH. The following Breakthrough ACTION + RESEARCH staff coauthored the original technical reports and reviewed the online guide for technical accuracy: Paul Hewett and Jessie Pinchoff of the Population Council; Martha Silva of Tulane University School of Public Health and Tropical Medicine; and Gabrielle Hunter, Alice Payne Merritt, and Priya Parikh of the Johns Hopkins Center for Communication Programs. The team is grateful to Arianna Serino of USAID for her valuable input; Heidi Worley and Peter Goldstein of PRB for editorial support; Jessica Woodin of PRB for graphic design; Pamela Mathieson and N’Namdi Washington of PRB for video production; Alpha Omega Translations for Spanish translation; Mary Alice Jackson of the Population Council for Spanish review; and Automata Studios for web development. The guide is made possible by the generous support of the American people through the United States Agency for International Development (USAID) under the terms of the Breakthrough RESEARCH Project (No. AID-OAA-A-17-00018). The contents are the responsibility of Breakthrough ACTION+RESEARCH and do not necessarily reflect the views of USAID or the United States Government.

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Breakthrough ACTION and Breakthrough RESEARCH are USAID’s flagship programs for social and behavior change working to increase the practices of priority health behaviors for improved health and development outcomes.

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