

2012 Scientific Advisory Committee Meeting  
Anthony's at Columbia Point, Richland, WA  
September 7 - 8, 2012

# National Human Radiobiological Tissue Repository

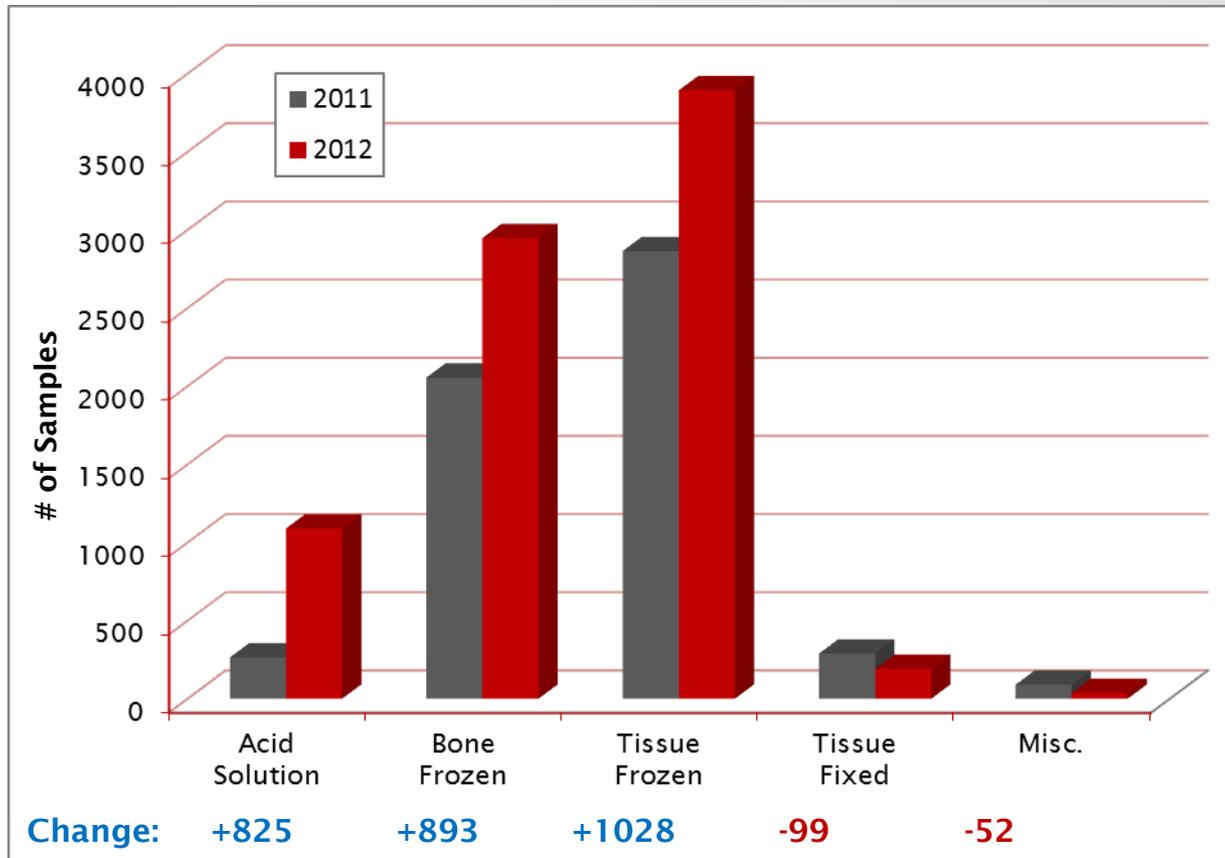


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*“Learning from Plutonium  
and Uranium Workers”*

# Changes Since the 2011 SAC Meeting



All Samples  
**2011: 5,560**  
**2012: 8,155**



# Two Large-Scale Inventory Projects

## Frozen Tissues

Florencio Martinez

David McLain

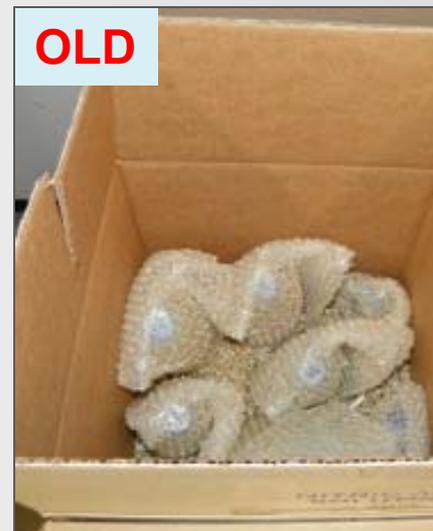


**Only 1 Freezer left!**

## Acid Solutions

Shannon Bedell

Michaela Easterday



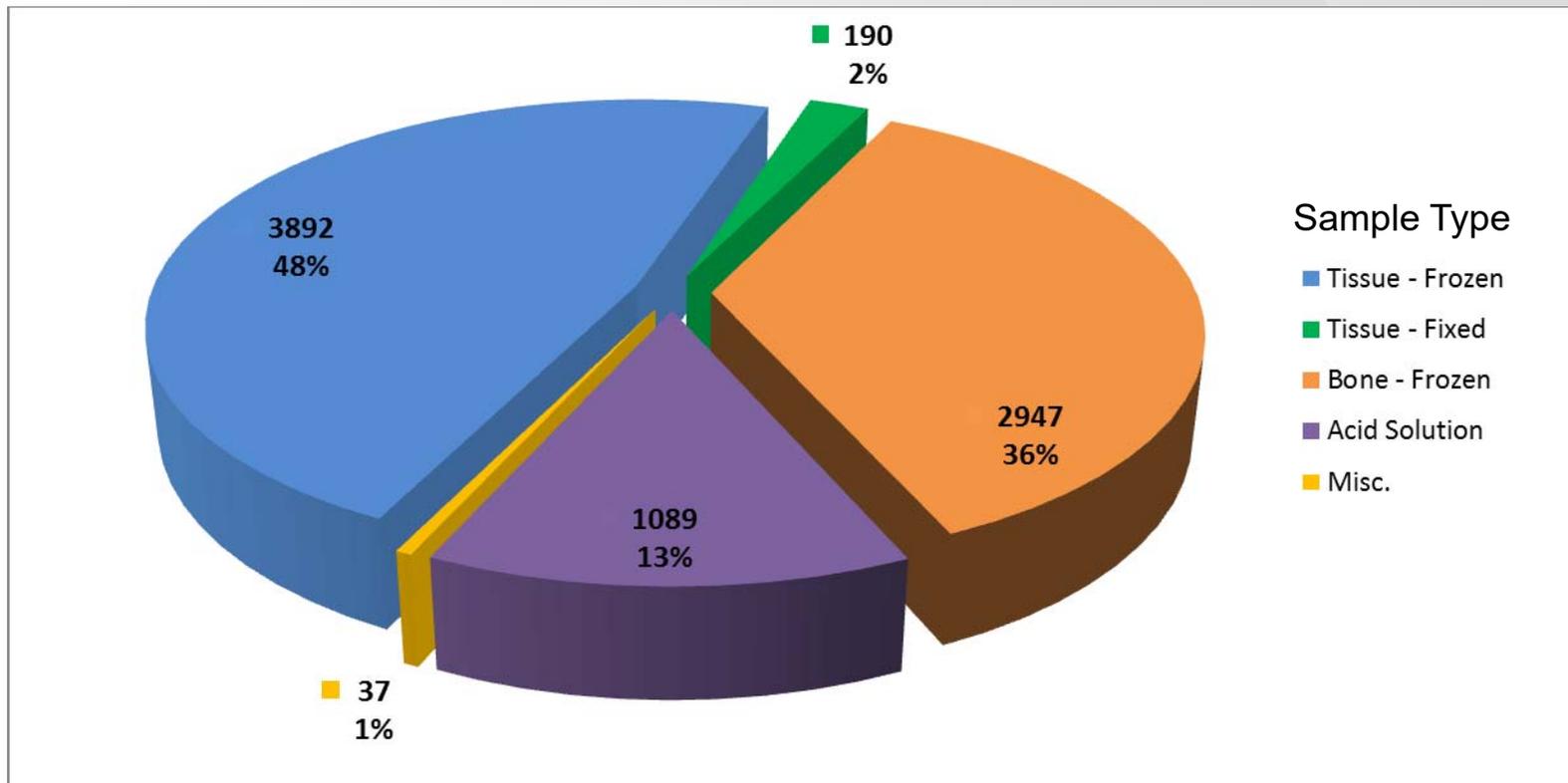
**More details to come...**



# THEMIS Inventory, by Sample Type

Total Samples: 8,155

As of 8/27/2012



Does not include subsamples!

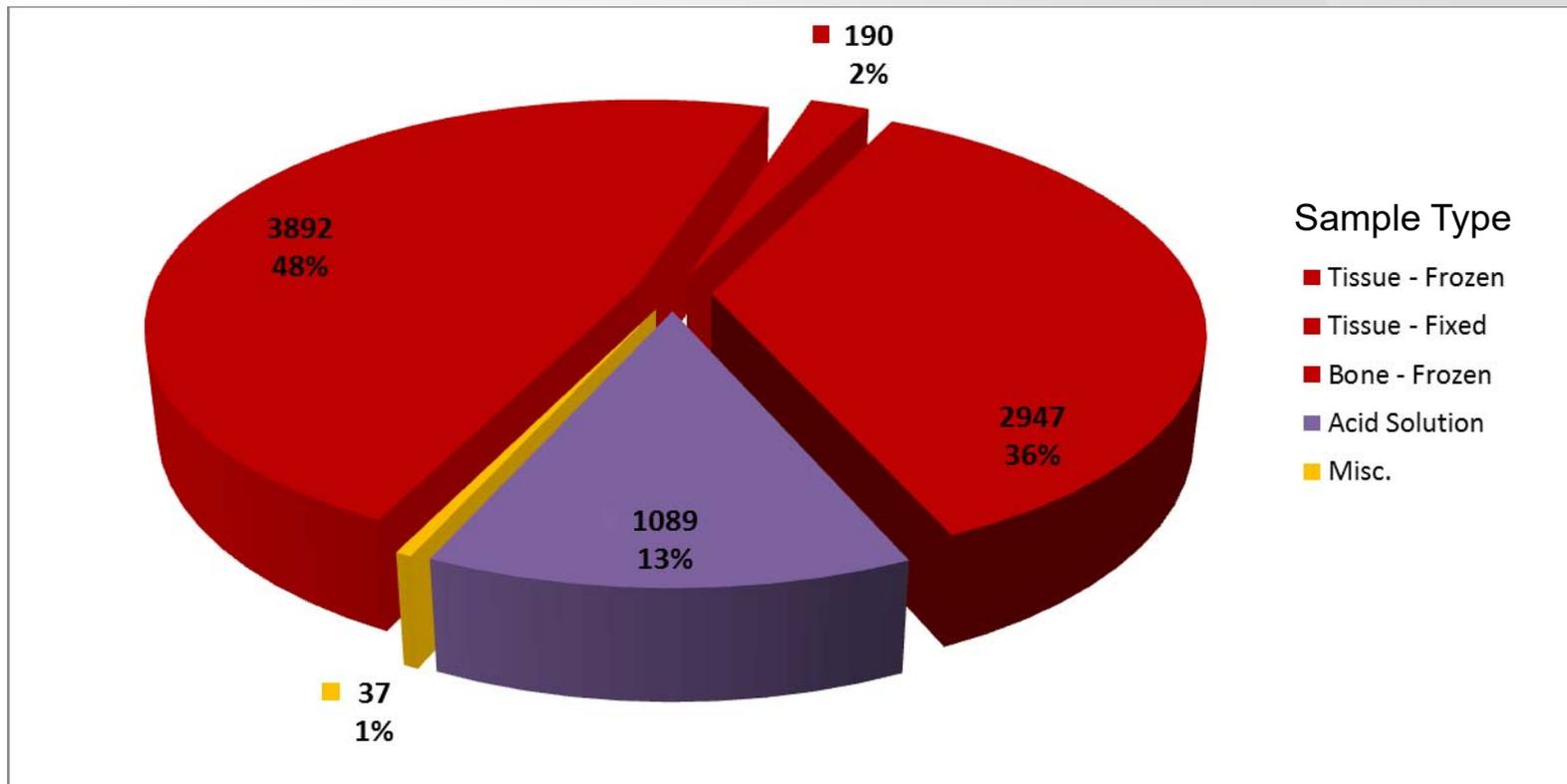
With subsamples: **9,180**



# A Closer Look at Tissue Samples

Total Samples: 8,155

As of 8/27/2012

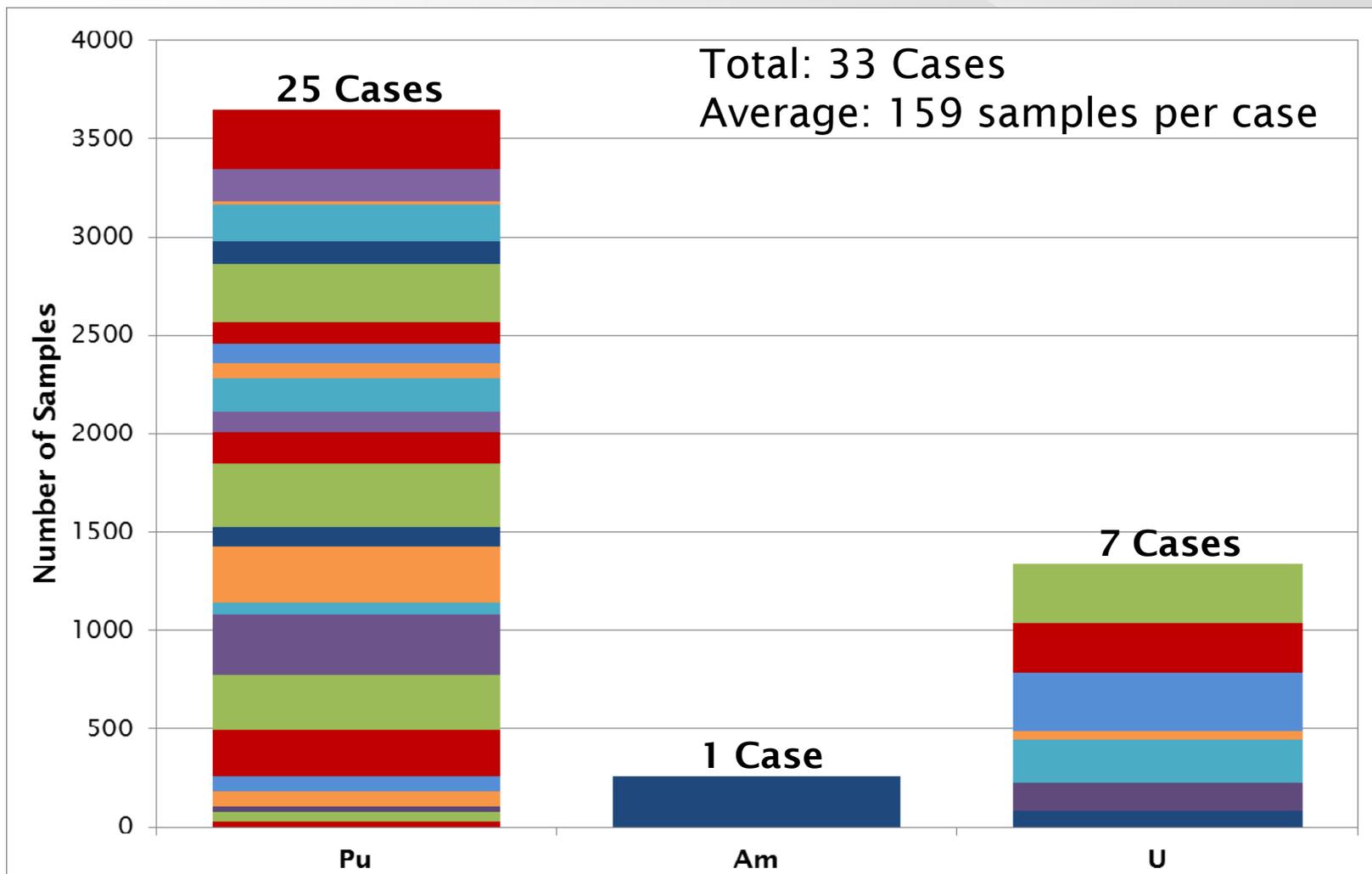


Does not include subsamples!

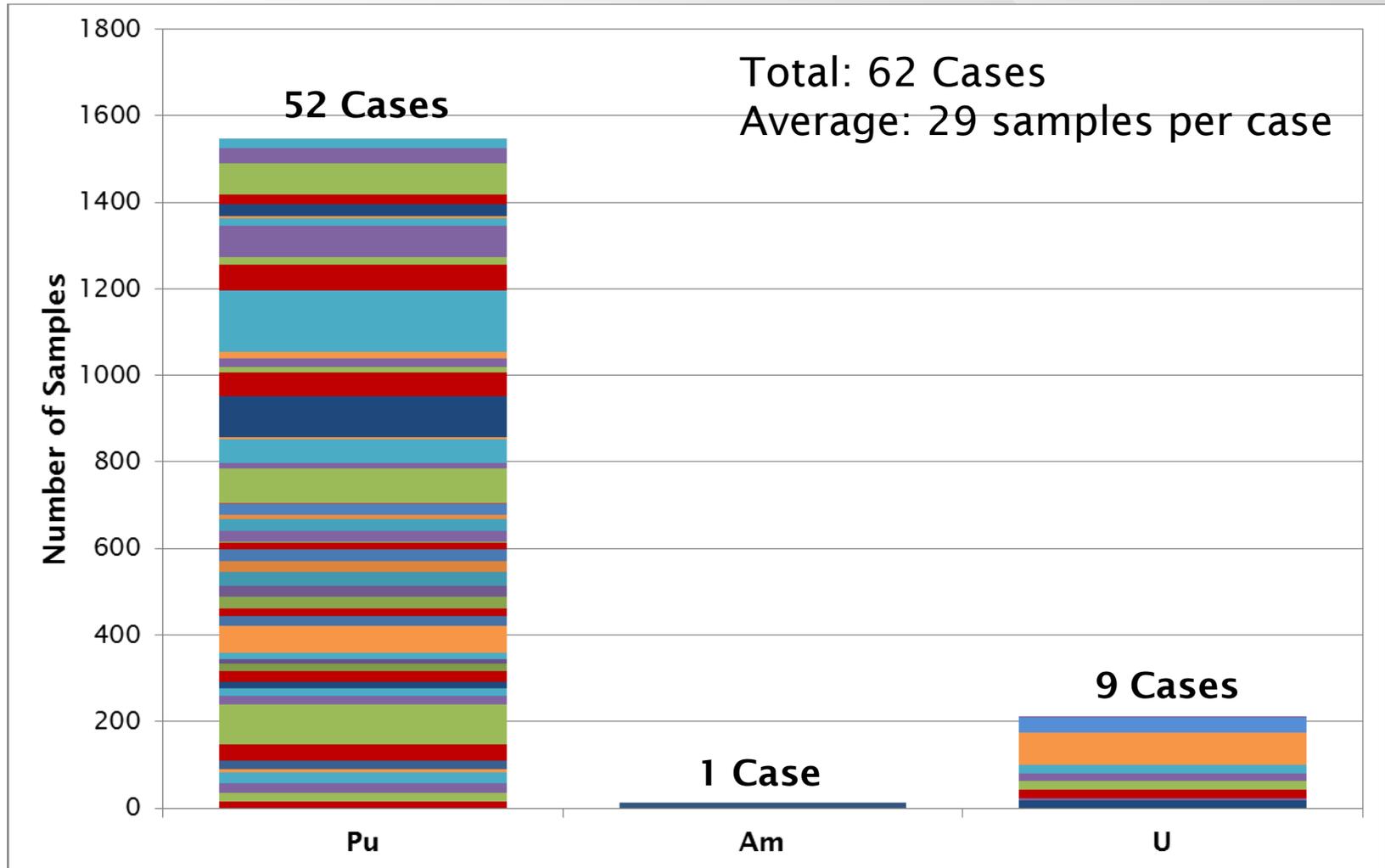
With subsamples: **9,180**



# Tissue Samples: Whole Body Cases



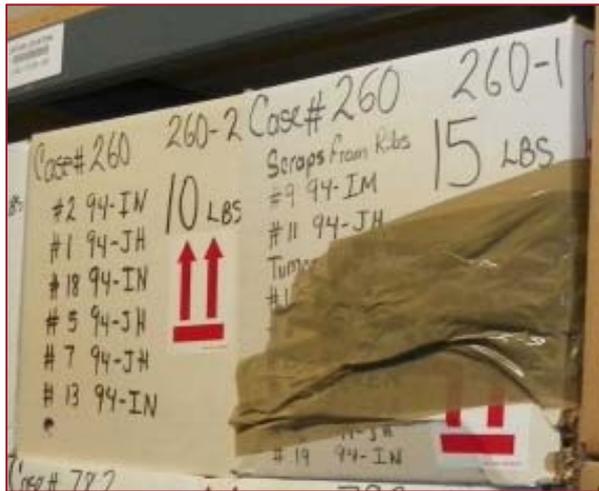
# Tissue Samples: Partial Body Cases



# Repackaging Acid Solutions



## Existing Packaging Materials



- Acids solutions were historically packaged in cardboard boxes with vermiculite.
- Cardboard is vulnerable to acid vapors and water.
- Vermiculite could present respiratory and/or sample contamination hazards.



## New Packaging materials



Absorbent mat that also provides cushioning.



Corrugated plastic boxes.



Bottles that have been wrapped in absorbent mat and boxed. Another absorbent mat goes on top, and the airspace is filled with packing peanuts.

**More efficient use of space!**



## Re-packaging Shelter



Re-packaging shelter with pass-through window.



## Inside the Shelter



- Drape with trash bag.
- Place box of samples in square hole in the work surface.
- Remove and wipe off bottles of acid solution.
- Pull trash bag around old box and vermiculite, tie closed, and dispose of.



# Log Samples into THEMIS



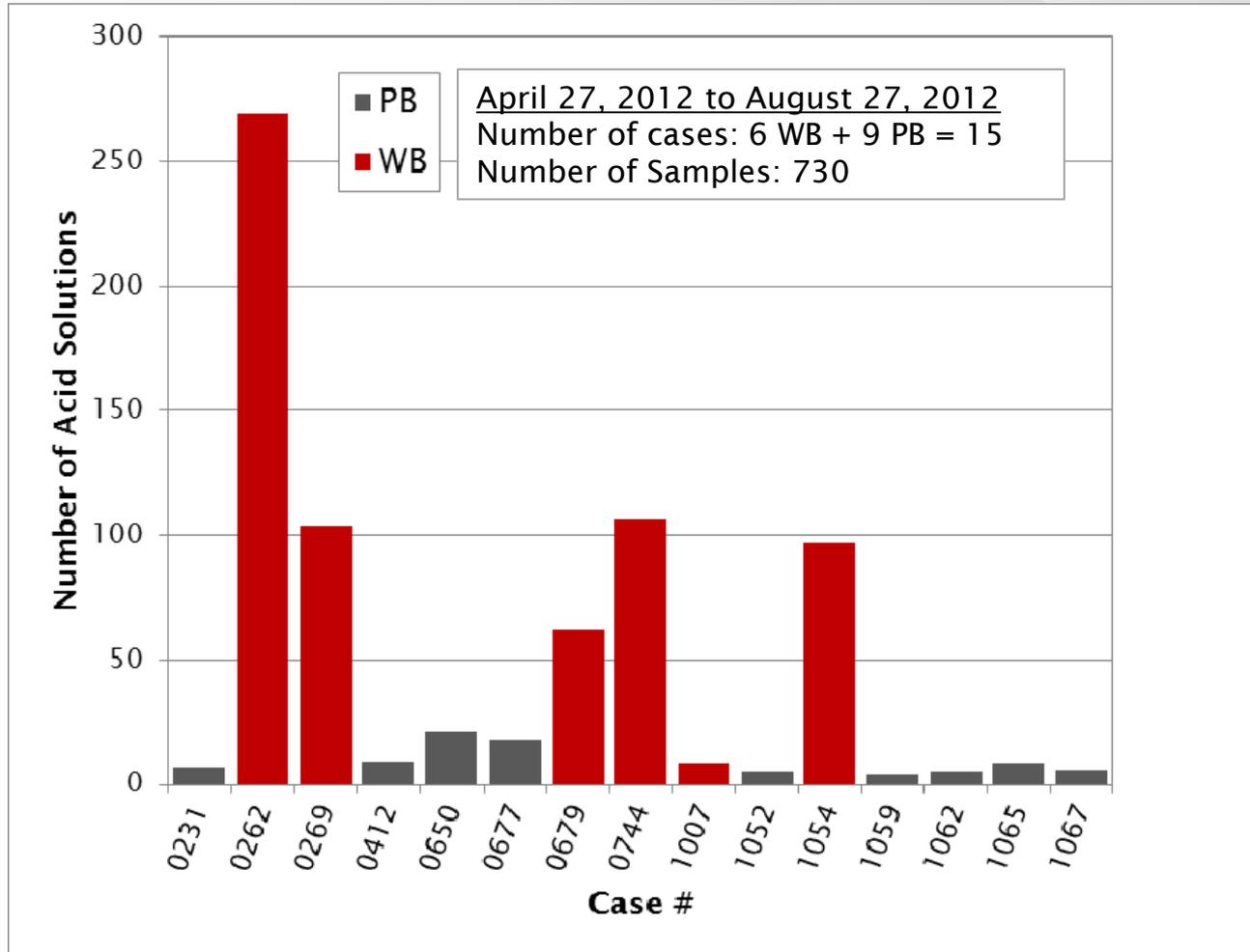
- Log in.
- Barcode label.
- Paraffin seal the lids.



# The Final Product



# Acid Solutions Repackaged



# Acid Solutions Repackaged

730 since April 27, 2012

