

TOPAZ RANCH ESTATES GID  
3924 CARTER WAY  
WELLINGTON, NV 89444  
www.tregid.com  
8:00AM to 12:00PM --- 1:00PM to 4:00PM  
(775) 266-3212 OR 266-3000  
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## How to Winterize Your Plumbing Pipes to Prevent Damage

Winterizing [plumbing pipes](#) is a process that prepares household plumbing for freezing temperatures that can cause leaks and breaks in the home. When water freezes, it expands as it becomes ice. This expansion produces pressure within pipes, which causes damage.

Winterizing plumbing is recommended when a house will be vacant for a long period of time and no water will be running through the pipes. The winterizing process involves emptying the water heater, draining all water from the pipes, and filling all fixtures with an antifreeze solution.

### Preparing for Winterization

Begin with a plan for winterizing your plumbing. It is easy to miss a step, so make yourself a checklist of all your home's plumbing parts, including all taps and valves, and then follow the steps detailed below. Mark the steps off as you complete them, so you'll know you did everything needed, and then you won't have any nasty surprises come cold weather.

### Steps for Winterizing Your Plumbing

Follow these steps to winterize plumbing pipes in a house:

1. Shut off the main water valve, and then turn off the [water pump](#) and the water heater. It will protect heating elements in the water heater when there is no water inside the tank.
2. Open all drain [valves](#) and all taps. Check off each on your list, so you are sure all taps are open. A closed tap could create a vacuum that will hold water inside of pipes. All valves and taps should remain open throughout the winter.

3. Using air compressors, blow excess water out of the pipes.
4. Open the drain valve in your hot water tank and let it discharge until it is empty. Be careful, because sometimes these hot water tanks don't have floor drains and you will need to connect a garden hose to it.
5. Drain all the water that is left in the holding tank, especially the one located in the rubber diaphragm, the one that is used along with the water tank to build pressure. As an additional protective measure, add antifreeze to the jet pump case.
6. Flush toilets to remove as much water as you can from the tanks and the toilet bowls. If all water cannot be removed, add antifreeze to prevent any water from freezing and cracking the toilet.
7. Check all sink and tub drains that could have drain traps. Add some antifreeze to each one of them to prevent water from freezing and cracking in the traps.

## How to Prevent Freezing Pipes

If you have enough time to check the conditions of the building's plumbing, identify the pipes most vulnerable to freezing. Look for pipes located outside walls and windows, uninsulated pipes, and pipes installed near unheated spaces.

It is also important to check for any cracks or openings in walls, floors, and ceilings. If you find holes during your inspection, [caulk](#) them to keep cold air from entering those gaps.

Be sure to follow these tips:

- Insulate pipes with insulation sleeves, wrapping or using slip-on foam pipe insulation. Do not leave any gaps without insulation as cold air can affect the pipe in these spaces. Plastic piping is more tolerant of freezing than old copper or steel water pipes.
- Inspect the exterior of the property, making sure that all visible cracks are sealed. Cold air can enter through the cracks and, once inside, it will cause your pipe to freeze. If visible cracks are noticed, seal them using caulking or spray foam to fill the voids.
- Maintain a heating source inside the building to protect pipes against cold.

- It is a good idea to maintain a faucet dripping, allowing the water to move freely and continuously, preventing it from freezing.
- Make sure the crawl space is properly insulated. Block all vents that lead to the outside using cardboard or wood.
- Don't forget the hose bibs. Hose bibs are normally left unattended, causing them to burst in the middle of the night. Drain hose bibs and insulate with covers. Once this has been completed, deactivate bibs at the shutoff valve.
- Use heat tape to protect pipes from freezing. Heat tape is one of the preferred methods for winterizing plumbing, but be aware that these might bring additional hazards. The U.S. CPSC has provided safety recommendations for homeowners using heat tapes to help prevent fires.