



Leihgeber's stove burns wood, coal, corn, used motor oil, cooking oil, stove pellets, wood chips and other materials.

## Backup Stove Burns Almost Anything

"I think everyone should have a backup heating system for emergencies," says Joseph Leihgeber, Williamsburg, Ohio, who built a wood-burning stove that also burns coal,

corn, used motor oil, cooking oil, stove pellets, wood chips and just about anything else you can feed into it.

From the front it looks like a conventional wood stove except for the hopper on the right side and a pair of forced-air fans on the side.

The 1-bu. hopper is designed to feed corn, coal and wood pellets to a 2-in. auger that runs into a burn pot inside the stove. Forced air blows up through the pot to aid combustion.

On the back of the stove there's a reservoir to hold used motor oil and cooking oil. He uses oil to start wood fires by opening the valve to a 1/4-in. line that runs to the top of the firebox, where it drips onto the logs. Once the fire is burning, he can allow the oil to continue to drip, creating a very hot fire that burns the oil with almost no smoke.

Leihgeber has an oil-fired furnace that handles most of his home-heating but he doesn't plan to use it this year. "With the high price of heating oil, I'm going to burn all the free wood, motor oil, corn and anything else I can find," he says, adding that he plans to add a larger hopper for grain and pellets.

The stove cost about \$300 to build and Leihgeber would be willing to put together plans if there was enough interest.

Contact: Joseph Q. Leihgeber, 1815 Bardwell West, Williamsburg, Ohio (ph 937 444-4835; josephq12@aol.com).



Pickup-mounted kit lets you drop sand down in front of rear wheels. "It's great for going up an icy grade or trying to stop on slick roads," says inventor Ron Carlson.

## Sand Kit Boosts Pickup Traction

If you had Ron Carlson's sand traction kit installed on your pickup, every time you hit ice or got stuck in snow you could just pull a lever in the cab and sand would drop down in front of the rear wheels.

"It's great for going up an icy grade or trying to stop on slick roads," says Carlson.

The add-on sand kit consists of a pair of plastic hoppers that mount on the wheel wells inside the truck box. Plastic pipes run down through 2-in. holes to a few inches in front of each wheel. A stopper inside each hopper is used to control the flow of sand.

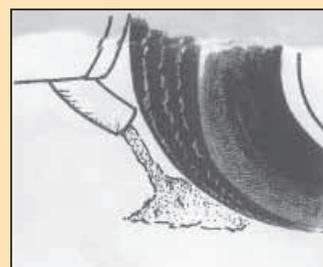
A release handle in the cab connects to a cable that runs through the back of the cab to both hoppers.

"It works good. Once installed, you'll be amazed how much you use it," says Carlson. "I got the idea after I wrecked my pickup twice after suddenly hitting black ice that I couldn't see.

"Each hopper holds about 80 lbs. of sand. Cat litter can also be used. You control the flow rate by how far you pull the handle down. Be sure to use the kind of sand sold at lumber yards. Beach sand won't work because it will harden up," he notes.

The kit includes a 2-in. ram drill, screws, sand hopper, cable, turnbuckle, handle holder, stopper, and easy-to-follow instructions.

Sells for \$495.



Plastic pipes run down from a pair of plastic hoppers that mount on top of wheel wells.



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## Cheap Way To Make Rain Gutters

Ordinary underground drain pipe can be used to make low-cost gutters, according to a report in the British magazine Practical Farm Ideas.

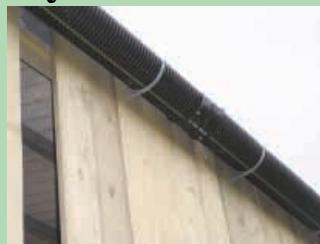
Frank Henderson says it would have cost thousands of dollars to put commercial gutters on his new shed. By using plastic pipe he was able to do the job at a fraction of the price, and he says they look good, too.

He bought standard 8-in. corrugated pipe and used a circular saw to cut it in half. He cut the pipe connectors in the same way to convert them into gutter connectors. He glued the connectors to the pipe with a plastic sealant. To provide mechanical strength he popped in some short self-tapping screws.

The pipe gutter fits neatly into standard galvanized steel brackets.

The long stretches of gutter needed two downpipes in the middle as well as ones at either end. He made these from sheet metal and gave them a heavy coat of galvanized paint.

The gutter sections were joined on the roof, with the sections placed upside down. When complete, the whole length was rolled over the edge and onto the brackets, where it was leveled and pushed down into position.



Frank Henderson makes low-cost rain gutters out of ordinary 8-in. corrugated underground drain pipe. He uses a circular saw to cut pipe in half, and he also cuts pipe connectors in the same way to fit the gutter pieces together.

Downpipe holes were then cut, and the top edge of the gutter screwed to each bracket.

Contact: FARM SHOW Followup, Frank Henderson, Oathill Farm, Enstone, Oxfordshire, England.

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