

Letting Your

Cattle WORK FOR YOU

As livestock producers, we do a lot of work for our cattle. We feed them, water them, bed them, vaccinate them, treat them, and haul their manure. Recently, not due to any fault of their own, they don't pay us back. What a frustrating time! What can we do to ease this situation.

More and more ranchers/farmers intensively graze and extend grazing seasons, including the use of swath grazing. Now you can also let cattle water themselves – year round – by incorporating one or more Frostfree Nosepumps into your operation. Nose pumps are not a new concept to many people. The diaphragm nose pumps came over to Canada many years

ago from Europe. It has been more recent that nose pumps can be utilized year round with the introduction of Frostfree Nosepumps.

So why doesn't everyone have one? There is no need for power or heat, and very little maintenance is required. There have been a few hurdles to convince producers that they are a viable option. **Number one** – some producers just don't believe cattle will pump their own water. But they will indeed, and with a little effort on the producer's part, they learn quickly. **Number two** – many cannot imagine that they won't freeze up when it is minus 45 degrees and the wind is blowing (a common scenario on the Prairies). A "system" is required to make these pumps not freeze in these temperatures, but it does work. Ask the over 200 producers across North America who are using these pumps. Producers from Fort St. John and Dawson Creek area to

Newfoundland. Many have recently responded to a survey done by Frostfree Nosepumps Ltd. with glowing remarks about the performance even in very cold temperatures.

So why don't they freeze?

1. The culvert upon which the unit is fastened should be a minimum of 24" in diameter and 20' in the ground. The depth is required to capture the ground heat. This is extremely important.
2. The culvert is insulated a minimum of 8' down to hold the ground heat in.
3. A tiny drain hole is drilled in the pipe 5 ft. down from the top of the lid. This allows the water to drain slowly away once the livestock stop pumping. However, the trough itself DOES NOT DRAIN! If it did, it would contaminate the water source. The reason the trough does not freeze is that the cattle pump on the push stroke of this piston pump (unlike the diaphragm pumps which draw water on the back stroke). When the cattle have had enough water they walk away, leaving very little in the trough. The activity in the trough and the relatively warm water from the ground, prevent the build up of ice inside the trough.
4. Insulation on the ground around the culvert and a large cement pad

are recommended. A frost break and seal is recommended between the culvert and the pad. This will prevent compaction from driving the frost deeper than normal into the ground. It also gives the animals sure footing and acts as an umbrella around the well, providing protection from contamination and making it easy to clean away manure or ice.

With this "system" in place, the cattle will operate these pumps throughout the winter and summer. No electrical components, no power bill, no batteries, panels etc. to maintain. After installation, you water your cattle for free.



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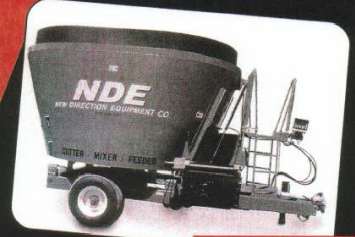
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