

## Ethanol

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ethanol could be used as a gasoline extender. Then it remains to be seen just how good a fuel gasohol really is.

Nobody can say for certain just how efficient gasohol is, Castagno says. But a number of major studies have been done and most show similar trends.

In cars up to the 1974 models the gasohol usually shows better mileage.

In cars made in 1977 and later, the mileage drops with gasohol. This is because the

later model cars already are tooled to run lean.

In many cases, of course, the mileage results depend on specific engine design.

Still, there are advantages to producing ethanol on the farm in small stills.

For one thing it is simpler to transport ethanol to market rather than grain, something Pennsylvania farmers discovered hundreds of years ago and which led to the Whiskey rebellion.

The process produces a lower cost feed.

The by-product can be used wet, and there is the

possibility of producing a biomass fuel.

On the other hand, the capital and time investment is large. The small system may be inefficient. The distillers grain may be difficult to get rid of unless the farm has lots of livestock.

It is difficult, too, to go to anhydrous production in a little operation.

Does that mean the production of ethanol will be left to big operations of 20 million to 50 million gallons per year?

They would have maximum economic and energy efficiency as well as lower capital costs per gallon and ability to direct all products and by-products to a lucrative market.

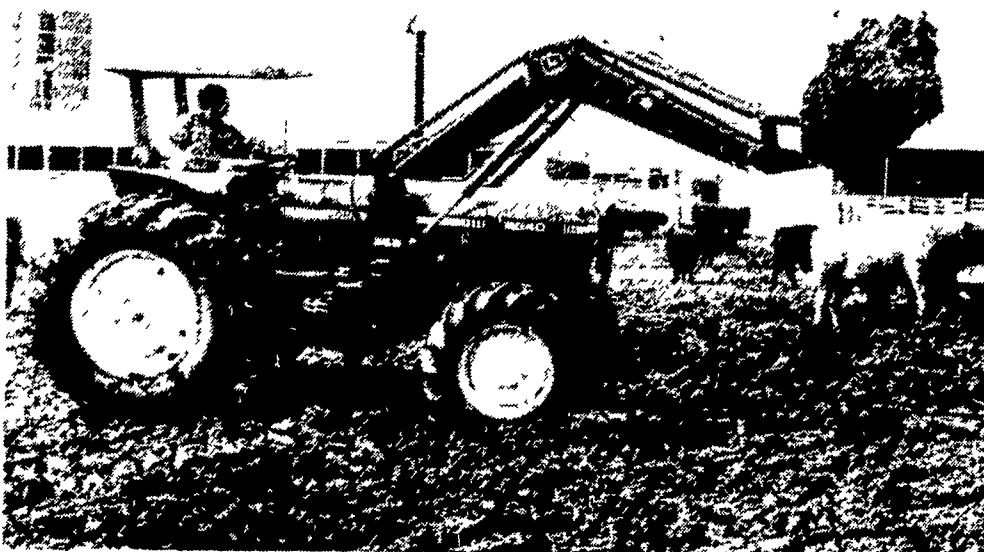
But their costs could be higher, too. For one thing, they would have to dry and process all of the by-products produced.

In the end, economic realities probably will dictate the path Americans follow if they choose to take the ethanol production route.

As Castagno says, "We can only hope that in the end economics and rationality will prevail over politics and emotion."—CH



## WHAT'S NEW



New John Deere 260 Loader is the first agricultural front-end loader with automatic self-levelling bucket control.

### Deere self-loading loader

MOLINE, IL — The first agricultural front-end loader with automatic self-leveling bucket control to reduce spillage of sloppy manure or loose materials has been introduced by John Deere.

The new 260 Loader, first in the 200 Series of self-leveling loaders put on the market, fits John Deere 6-cylinder tractors, 80-through 130-hp, including models with mechanical or hydrostatic front-wheel drive. It has a 5,060-pound breakout capacity, 3,200-pound lift capacity, and 12-foot 6-inch lift height. With boom fully raised and bucket dumped, the 260 has a reach

of 36.2 inches.

All new 200 Series Loaders will be standard-equipped with simple, single-level control of boom and bucket operations. And all will provide exclusive 40-degree rollback of bucket attachments to help capture and retain full bucket loads of semi-liquid manure, gravel, sand and other flowable materials. The John Deere-designed mechanical linkage between bucket and boom automatically maintains rollback angle as the boom is raised and the load is carried to the spreader or dump point. The combination of 40-

degree rollback and self-leveling bucket greatly reduces spillage from pickup through delivery.

The 200 Series Loaders also introduce a new Quik-Tatch mounting system. Using tractor hydraulics only — no tools — any of the new loaders can be tractor-mounted in as little as two minutes. Demounting has also been speeded up and simplified: lower the bucket to the ground, swing parking stanks into support position, pull two pins, disengage hydraulic lines and back the tractor away.



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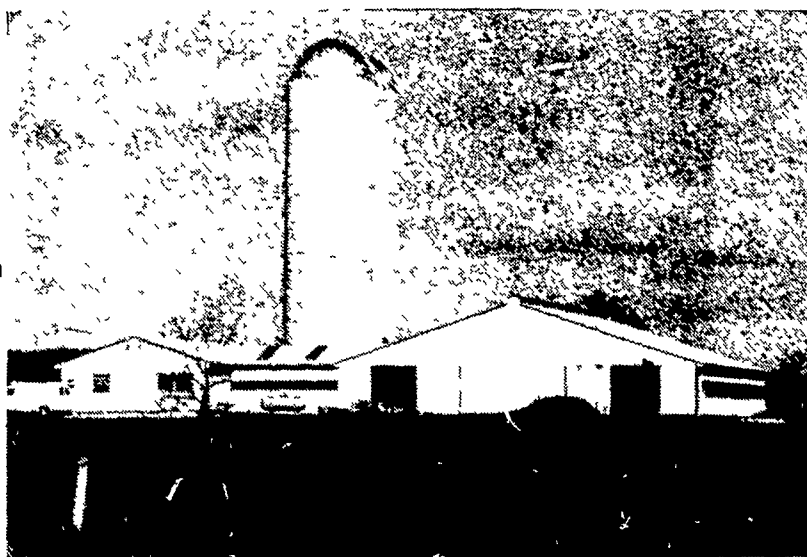
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