

## New Feed Additive Makes Hogs Leaner While Keeping Fast Gains

AMES, Iowa — Swine feeding specialist at the Iowa State College here report that they have learned about a possible new way to feed leaner hogs without slowing down gains.

The discovery is important because previous attempts to feed for less fat have not worked out

too well. By limiting energy intake, you get leaner pork, but it slows down gains too much to suit most feeders.

Boosting the protein level improves quality but is nearly always an expensive process.

The Iowa State scientists reported that a feed additive called 3-Nitro (full name 3-Nitro-4-hydroxyphenyl arsonic acid) reduced backfat seven to nine per cent in two tests with 80 pigs finished to 200 pounds.

They self-fed all the pigs a standard growing finishing ration. The only difference is that some pigs got the chemical mixed in their feed from weaning to market.

Best results were obtained with 3-Nitro making up .0025 per cent of the total ration. It reduced backfat 10 to 12 per cent at that level. There was no difference in rate or efficiency of gain in these

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### How to Measure Cow's Mothering Ability

The weight of a beef cow's calf at 112 days of age is just as reliable as its weight at 210 days in measuring the mothering ability of the cow, according to animal husbandmen at Oklahoma State University.

The earlier weighing time would permit cattlemen to identify and cull poor milking cows earlier and thus increase flexibility in management, the Sooner scientists say.

tests on concrete. The pigs gained 14 to 17 pounds per day and made a pound of pork on 3.3 to 3.4 pounds of feed.

This checks out with earlier tests when the scientists measured only 3-Nitro's effect on rate and efficiency of gain. They got 16 per cent faster gains and three per cent better feed conversion with it in dirt drylot and a five per cent improvement in both on pasture, but no extra help on concrete.

It looks like 3-Nitro improves rate and efficiency of gain only

### 2,4-D, Dinitro Okay for Weeding Sweet Corn; Both Have Advantages

Two chemicals 2,4-D and water soluble dinitro, are recommended for weeding of sweet corn. Research with these herbicides by the Agricultural Experiment Station at Penn State shows 2,4-D and dinitro can be applied at the time the field is cultivated in either pre or post emergence applications.

The cheaper of the two herbicides with a high disease level. But it boosts pork quality even with a low disease level," said Dr. Virgil Hays and Damon Catton, who made the experiments.

Reducing backfat by 13 to 17 per cent in a lot considering that it takes at least two years to breed that much off with what we know about genetics today. And this 3-Nitro improvement apparently adds on to what you can do through breeding.

A few feed manufacturers have 2-Nitro in their feeds now, in combination with antibiotics

icides on an acre is 2,4-D. This chemical can be applied from planting time until corn is 2 to 3 inches tall. Best results in experimental plots at Penn State were obtained when the 2,4-D was applied at the time of corn emergence. Cultivation following a post emergence application of 2,4-D should be delayed at least 10 days as the corn stalks may become brittle and subject to breakage.

Dinitro is more expensive to use than 2,4-D, costing 3 to 4 times as much. This herbicide does not make the corn stalk brittle — thus permitting earlier cultivation following treatment. Koll points out it is generally safer to use on sandy or stony soil and is easier to remove from spray equipment than is 2,4-D. This same chemical may be used to weed other vegetables such as beans and peas.

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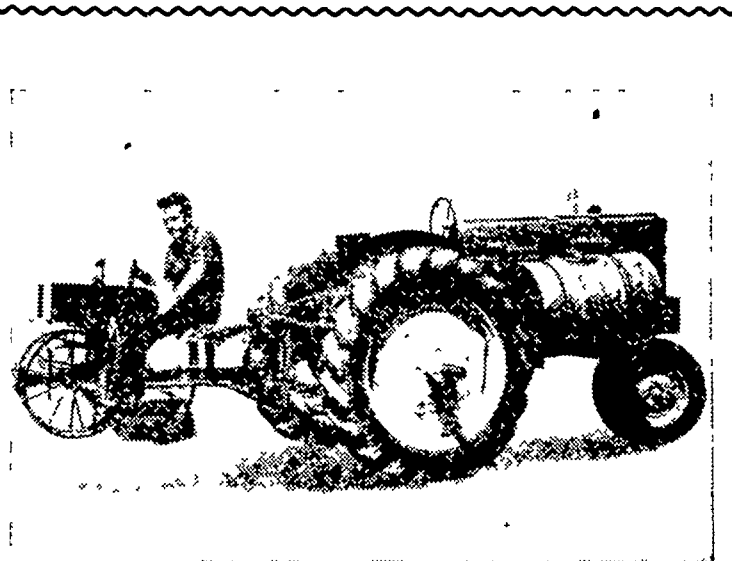
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