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SLURRY INJECTION

ADVANTAGES OF SHALLOW SLURRY INJECTION

- Reduce nitrogen losses by 60 % and up to 85% (IGER)
- Conserved nutrients
- Reduced fertiliser inputs
- Reduced odour and associated public nuisance
- Reduced runoff and increased surface aeration

SLURRY INJECTION VS SURFACE BROADCASTING: FINANCIAL SAVINGS

1m³ (220 gal) dairy cow slurry (6% dry matter) contains 3 kg total N

Approximately 50% of the total N is “readily available” with the other 50% becoming available over a period of time (organic N).

Therefore, there is approximately 1.5 kg of organic N and 1.5 kg of “available N” per m³ slurry
Up to 80% of the “available N” is lost following surface broadcasting. This loss is reduced by about 80% when slurry is applied by shallow injection.

At £160/t for Ammonium Nitrate (34.5% N), 1kg N is worth 46p

The total N in 1m³ slurry is worth 70p (1.5 kg x 46p)

The “available” N in 1m³ slurry after spreading is worth:

Surface broadcasting: 14p (20% of 70p)

Shallow injection: 59p (84% of 70p)

Therefore, the total value of N in 1m³ (220g) slurry after application by each method is:

Surface broadcasting = £0.84

Shallow injection = £1.29 (53% increase over surface broadcasting)

So, at an application rate of 35m³/ha (3150 gal/ac), savings in N fertiliser will be in the order of £15 per hectare or £6 per acre.

SLURRY INJECTION SPECIALIST LEADING THE WAY IN DEVON AND CORNWALL

UMBILICAL SLURRY INJECTION

- Ready to use in any season
- Reduces land damage and compaction
- Shallow injection - up to 4 inches deep
- Quick - no travel time - continuous pumping
- Reduces Ammonia atmospheric discharge
- Fits in with your farming operations
- Environmentally friendly
- Minimises odours
- Avoids run off
- Cost effective - Allows you to continue with your work
- You need a service that is fast, cost effective, environmentally friendly and beneficial to your land

HOW IT'S DONE

A Doda pump is situated at the slurry store.

The piping is laid from the pump to the field, which is then attached to the injector on the tractor.

The slurry is continuously pumped to the injector. Controls are in place to enable the supply of slurry to be shut off when turning on the headlands etc.

Both the Umbilical Slurry Injection system and the Tanker with Injector are fitted with a flow meter.

