

Environment, society friendly

Economic resilience



Background

The use of slurry injectors provides the fertilizer to the point where the plants receive the nutrients required for growth. This reduces nitrogen losses and strong odour to a minimum. Therefore, injectors are the best solution for improving the value of slurry, increasing yields and being environmentally friendly.

Characteristics of slurry injection systems

Nitrogen losses as ammonia



Trailing shoe injector



Disc injector



Tine injector

Relative work rate (comparison to splash plate/trailing hose)

Low

Grassland/arable crops (best usability)

Grassland

Grassland/
arable crops

Arable crops

Difference in yield relative to surface broadcasting*

Grassland = +25-30%

Grassland = +25-30%
Small grain = max. +10%

Corn = max. +14%
Soybean = max. +16%

Working depth

0-3 cm

0-12 cm

0-16 cm

Savings in N loss with use injector in relation to splash plate

10-20%

*Maguire, R. O. et al. (2011). Manure Application Technology in Reduced Tillage and Forage Systems: A Review. In Journal of Environmental Quality (Vol. 40, Issue 2, pp. 292–301). <https://doi.org/10.2134/jeq2009.0228>

Images: www.eversagro.com, fliegl-agrartechnik.de

Benefits of the solution



add fertilizer value from slurry



increase grass and crop yield



environmentally friendly technology



reduce odour



possible subsidies for the purchase of machinery

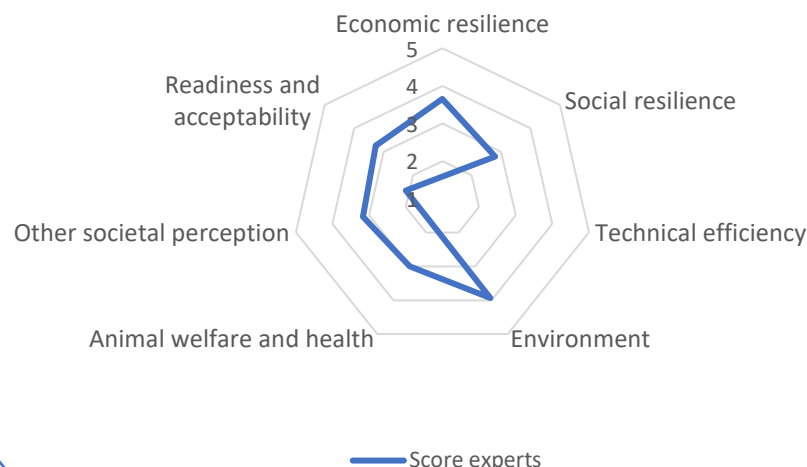
Images: Flaticon.com

Be careful, especially on these points:

- Slurry application system must be compatible with machinery: slurry tanker, tractor power
- The slurry must be really liquid (best = dry matter range <5%)
- You need skills to operate slurry injectors
- The type of soil and topography (soil texture, stone content and ground contours)
- Working width and transport width of injector
- Maintenance costs and work rate
- Equipment costs without slurry tanker approx. 20 000-50 000 €

Images: Flaticon.com

Assessment of method



Quote of farmer:

“Slurry injection reduces ammonia emissions, increases the nitrogen in slurry utilization and increases yields”

More info:

<https://www.eversagro.com/slurry-injection>

<https://www.manuremanager.com>