



## Why protected urea?

Using protected urea in grassland results in lower nitrous oxide (N<sub>2</sub>O) emissions than CAN and lower ammonia losses than urea. This makes it the most sustainable fertiliser N source for meeting both greenhouse gas and ammonia loss emission commitments

## Is protected urea cost effective?

Protected urea is up to 20% cheaper per kg N than CAN

N Type	Urea 46%	Protected urea	CAN (27% N)
Cost €/kg N	€1.96	€2.06	€2.59
Urea €900/t, Protected urea €950/t, CAN €700/t (Jan 2022)			

Costs may vary depending on fertiliser price

## How do grass yields compare?

In a number of grassland experiments (Teagasc Johnstown Castle, Moorepark, Athenry, Ballyhaise and Clonakilty) there was no difference in grass yield when protected urea was compared to CAN

# Where can I get a list of protected urea products?

Log onto: <https://www.teagasc.ie/crops/soil--soil-fertility/>



## Tips for achieving best results with protected urea

- Develop a fertiliser plan for the farm to determine your protected urea and compound fertiliser needs for the year ahead
- Contact your fertiliser supplier early and order the protected urea fertiliser you need
- Calibrate your fertiliser spreader to ensure the correct application rate and spreading width for protected urea
- Protected urea can be applied throughout the growing season, but as with all fertilisers avoid applications when soils are too cold or wet, or under drought conditions

## Protected urea delivers lower emissions at a lower cost

