

15 N Labelled Urea Recovery By

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15 N Labelled Urea Recovery

Abstract 15 N-labelled urea (30 kg N ha⁻¹) was sprayed on to the foliage of winter wheat at four sites where sufficient fertiliser N had previously been applied to the soil to achieve approximately maximum yield.

Recovery of 15N-labelled urea applied to the foliage of ...

The fate of fertilizer nitrogen (N) applied to a semidwarf bread wheat system was determined in microplots receiving 41 kg N ha⁻¹ in the form of urea labelled with 5.617 % atom excess 15 N, without and with the application of phosphorus (P) at 20 kg P ha⁻¹.

Recovery of 15N-Labelled Urea Applied to Wheat (Triticum ...

The percentage of recovery of 15 N-labelled urea in the plant parts or remaining in the soil derived at the end of crop growing season by the isotopic method was calculated using the following formula (Hauck and Bremner, 1976, Bronson et al., 2000): (3) REN (%) = TN × % N dff F × 100 where REN is recovery of applied 15 N labelled urea in plant or remaining in the soil N pool and F is the rate of 15 N labelled urea applied, kg ha⁻¹.

Recovery efficiency and loss of 15N-labelled urea in a ...

15N-labeled urea was used to compare basal, tillering, and panicle fertilizer-N recovery efficiencies of water saving irrigation. The plant panicle fertilizer-recovery efficiency was greater than the basal and tillering fertilizer-recovery efficiency.

Recovery efficiency and loss of 15N-labelled urea in a ...

Recovery efficiency and loss of 15N-labelled urea in a rice-soil system under water saving irrigation in the Songnen Plain of Northeast China ... different periods 15 N-labeled urea under ...

(PDF) Recovery efficiency and loss of 15N-labelled urea in ...

The objectives of this study was to determine the influence of tillage, time of application and method of placement on the recovery of 15 N-labelled urea in barley (*Hordeum vulgare* L.) plants and in soil. Field experiments were conducted during 1984-85 at two locations (Rimbey and Ellerslie) in north-central Alberta.

Recovery of 15 N-labelled urea: Influence of zero tillage ...

Results of a two year study on the fate on 15 N-labelled urea (9.95 atoms percent excess 15 N) applied @ 180 kg N/ha to flooded rice in monolith lysimeters at the Punjab Agricultural University Farm, Ludhiana are reported.

Lysimeter studies on recovery of 15 N-labeled urea in ...

15 N-labelled fertilizer was applied at different rates (0, 30, 60, 90 kg N ha⁻¹) and in different forms (urea or ammonium sulphate) to wheat grown in Syria in three seasons (1991/92, 1992/93 and 1994/95).. Recovery of 15 N-labelled fertilizer in the above-ground crop at harvest was low (8-22%), with the amount of 15 N-labelled fertilizer recovered in the crop increasing as the rate of ...

Effect of fertilizer rate and form on the recovery of 15 N ...

To investigate such factors, and seasonal effects, field experiments were carried out using 15N-labelled urea (PU) and urea supergranules (USG). The recovery of fertilizer 15N by the plant and retention in the soil were studied in both dry and wet seasons. Export citationRequest permission. Copyright.

Nitrogen balance studies in rice using 15 N-labelled urea ...

Total plant recovery of N-15 labelled urea ranged from 17% to 75% according to treatment.

(PDF) Effect of Methods of Nitrogen Application on ...

Urea-15 N 2. 5 Product Results ... 15 N Labeled urea, Carbamide-15 N 2, Carbonyldiamide-15 N 2. Linear Formula: H 2 15 NCO 15 NH 2. Molecular Weight: 62.04. CAS Number: 2067-80-3. 316830 ; 98 atom % 15 N, 99% (CP) Sigma-Aldrich pricing. SDS; 490962 ; 5 atom % 15 N, 99% (CP) Sigma-Aldrich ...

15N urea | Sigma-Aldrich

Under the conventional irrigation and fertilizer management level, the recovery rate of 15N-labelled urea in rice-soil system was about 48-49%. The 15N-labelled fertilizer recovery in rice plant...

(PDF) Recovery efficiency and loss of 15N-labelled urea in ...

The availability of fertilizer N to crop under zero tillage (ZT) versus conventional tillage (CT) is affected by immobilization, ammonia volatilization, denitrification or leaching. This study examined the relative importance of those four factors in influencing the availability of N to the crop and the recovery of applied 15 N-labelled N in soil and plants.

Influence of source, method of placement and simulated ...

In experiments with 15N polyolefin-coated urea (POCU), rice plant recovery of broadcast conventional urea or ammonium salts ranged from 24 % with losses of 50-45 % with losses of 33 %. Where 15N...

(PDF) Fate and efficiency of 15N-labelled slow- and ...

Excretion of both total 15 N and urea- 15 N was subnormal and elimination was virtually completed 36 hr after administration of the isotope. During recovery from kwashiorkor total 15 N excretion had approached normal a month after commencement of rehabilitation. Urea- 15 N excretion was still slightly subnormal after 3 months.

Studies with 15 N-labeled ammonia and urea in the ...

Urea labelled with 15 N was applied at 200 kg N ha⁻¹ in the spring to a 45-yr-old natural jack pine (*Pinus banksiana* Lamb.) forest near Chappleau, ON. Fertilizer recovery in the L and F horizons was determined 32, 64 and 96 d after fertilization.

Immobilization of Nitrogen-15-Labelled Urea in a Jack Pine ...

Malhi et al. (2004), using 15 N-labeled fertilizer, found that recovery of 15 N in spring wheat on upper and lower slopes varied between years and sites located in the semiarid northern plains of...

(PDF) Landscape position effects on the recovery of 15 N ...

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Nitrogen rates of 0, 56, 112, and 168 kg N ha⁻¹ using 2.5 atom% ¹⁵N labeled-urea were applied to compare N assimilation via foliar or soil pathways. In the greenhouse, FNRE (16.6%) and MFNR (27.8 kg N ha⁻¹) were influenced by the two-way interaction of N rate and N placement ($p < 0.0001$) with values being maximized with 168 kg N ha ...

Quantifying Foliar and Soil Uptake of Granular ¹⁵N ...

The technique was used to measure recovery of N from ¹⁵N-labelled urea solution sprayed on to winter wheat (*Triticum aestivum* L cv Avalon) at six different times from growth stage 39 (3 weeks before anthesis) to growth stage 73 (2 weeks after anthesis).

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