15 N Labelled Urea Recovery By

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15 N Labelled Urea Recovery
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 ...
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 ...
Urea-15 N 2 98 atom % 15 N, 99% (CP) Synonym: 15 N Labeled Urea, 15 N Labeled urea, Carbamide-15 N 2, Carbonyldiamide-15 N 2. CAS Number 2067-80-3. Linear Formula H 2 15 NCO 15 NH 2. Molecular Weight 62.04 . MDL number MFCD00064399. PubChem Substance ID 24859045. NACRES NA.12

Urea-15N2 98 atom % 15N, 99% (CP) | Sigma-Aldrich
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 ...
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. The soil of the experimental field was sandy clay loam in texture (Typic Ustochrept), had pH 7.9, organic carbon 0.36 percent, available N 187 kg/ha and total N 0.08 percent.

Lysimeter studies on recovery of 15 N-labeled urea in ...
To investigate such factors, and seasonal effects, field experimentswere 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.

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

Effect of fertilizer rate and form on the recovery of 15 N ...
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
Band application of urea gave complete 15 N recovery (102%) in the dry season and low recovery (61%) in the wet. Nitrogen-15 balance data showed that 22 to 56% of the applied urea-N still remained in the soil after the final harvest. The uptake by the wet season crop of the residual labeled soil N from the dry season experiment was about 5% of the initial applied N (87 kg N/ha) for all treatments.

Nitrogen-15 Balance and Residual Effects of Urea-N in ...
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 Chapleau, 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 ...
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 ...
Recovery of 15 N-labelled urea-N in grain ranged from 4.5 to 26.7% with foliar application, and from 32.3 to 70.1% with soil application. Amending the urea solution with the urease inhibitor N-(n-butyl) thiophosphoric triamide (NBPT) improved recovery of soil-applied N in exp. 1 only and did not increase N recovery from foliar applications.

Uptake of foliar or soil application of 15N-labelled urea ...
1.Labelling plants with 15 N and 13 C stable isotopes usually require cultivation of plants in isotopically enriched soil and gas-tight labelling chambers - both approaches are not suitable if one aims to investigate in situ species interactions in real plant communities.. 2.In this greenhouse experiment, we tested a labelling method in which dual-labelled (15 N, 13 C) urea solution is brushed ...

A simple method for in situ-labelling with 15N and 13C of ...
The recovery of 15 N in wheat head correlated negatively with June rainfall (r = –0.624), probably because more moisture increased soil N mineralization, which diluted the 15 N pool.

Effect of growing season rainfall and tillage on the ...
Some results from 15 N-labeled experiments showed that fertilizer-N recovery in wheat and unaccounted N loss were in the range of 17–53 and 10–46% in China, respectively 11, 25, 29, 37. In the...

The fates of 15 N-labeled fertilizer in a wheat–soil ...
NUE (average 24%15N applied) and the total recovery of fertilizer15N in the soil–plant system (i.e., 40% in GS1 and 62% in GS4) were low. Low NUE resulted mainly from the dilution in a large soil mineral N pool derived from earlier applications of the labeled-N fertilizer applied at