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fate of 15 n labelled urea when applied to long term fate of 15 n labelled urea as affected by long term manure recovery efficiency and loss of 15n labelled urea in a rice effect of straw and inhibitors on the fate of nitrogen short and long term plant and microbial uptake of 15n fate of 15n labelled urea when applied to long term combined use of biochar with 15nitrogen labelled urea nitrogen balance studies in rice using 15n labelled urea and pdf recovery efficiency and loss of 15n labelled urea in a recovery efficiency and loss of 15n labelled urea in a rice recovery of 15 n labelled urea as affected by fixation of fate and recovery of 15n labelled fertilizer urea applied to recovery of 15 n labelled urea applied to the foliage of urea meaning definition production and more verywell health urea wikipedia different microorganisms have a taste for different flavors full article microbial immobilization of ammonium and reducing greenhouse gas intensity using a mixture of fate and efficiency of 15 n labelled slow and controlled urea production an absolute environmental sustainability

fate of 15 n labelled urea when applied to long term Apr 27 2024 fertilizer n losses accounted for 11 16 of applied 15 n labelled urea with no significant differences between treatments we found that fertilizer n use efficiency was increased in the high fertility soil supplied with manure compared with the low fertility soil supplied with synthetic n fertilizer which emphasized the importance of

fate of 15 n labelled urea as affected by long term manure Mar 26 2024 the present study aimed to investigate the fate of 15 n labelled urea in a chemical fertilizer treatment of 240 kg 15 n ha⁻¹ and n manure 50 substitution treatment 120 kg 15 n ha⁻¹ 120 kg manure n ha⁻¹ in two continuous crop seasons based on a 10 year long term experiment in the north china plain ncp

recovery efficiency and loss of 15n labelled urea in a rice Feb 25 2024 we estimated the recovery of 15 n labelled urea in rice and residues in soil profile excessive n application resulted in half of n applied lost from the rice field nitrogen recovery rate was about 49 under the conventional n application rate 15 n found in deep soil indicated fertilizer n leaching into the groundwater n fertilizer to reduce

effect of straw and inhibitors on the fate of nitrogen Jan 24 2024 soil and urea derived microbial biomass n increased significantly in us and uis compared with straw free treatments at seedling and tillering indicating that biotic process play an important

short and long term plant and microbial uptake of 15n Dec 23 2023 short and long term plant and microbial uptake of 15 n labelled urea in a mesic tundra heath west greenland original paper open access published 12 november 2023 volume 47 pages 1 15 2024 cite this article download pdf you have full access to this open access article hélène barthelemy liv alexa nobel sari stark maria väisänen

fate of 15n labelled urea when applied to long term Nov 22 2023 a standard rate 160 kg n ha⁻¹ of 15 n labelled urea was applied to the above treatments in summer maize first crop and the same amount of unlabelled urea was applied to winter wheat second crop we found the manure plus synthetic n treatment had a significantly higher fertilizer n use efficiency 56 with lower residual fertilizer n in soil

combined use of biochar with 15nitrogen labelled urea Oct 21 2023 in this study we used 10 atom excess 15 n labelled urea nitrogen 3 1 g pot⁻¹ phosphorus 0 7 g pot⁻¹ and potassium 2 5 g pot⁻¹ were applied from urea triple superphosphate and muriate of potash respectively as recommended by mardi

nitrogen balance studies in rice using 15n labelled urea and Sep 20 2023 nitrogen balance studies in rice using 15 n labelled urea and urea supergranules published online by cambridge university press 27 march 2009 s k mohanty s p chakravorti and a bhadrachalam article metrics get access cite rights permissions extract

pdf recovery efficiency and loss of 15n labelled urea in a Aug 19 2023 we estimated the recovery of 15n labelled urea in grain straw and root of rice and residues in soil profile the 15n not accounted for in the plant and soil was presumably lost the results

recovery efficiency and loss of 15n labelled urea in a rice Jul 18 2023 the labeled fertilizer is a 15 n labeled urea with an abundance of 10 22 produced by shanghai research institute of chemical industry shanghai china the nitrogen fertilizers phosphate fertilizers potash fertilizers and irrigation methods were the same as those used in the test plots

recovery of 15 n labelled urea as affected by fixation of Jun 17 2023 two weeks after applying 15 n labelled urea the amounts of nonexchangeable 15 nh₄⁺ n in the upper soil layer were significantly higher in the k₀ treatment than in the treatments with k application apparently nh₄⁺ n fixation by clay minerals can reduce nh₃ volatilization after urea fertilization if the amount of exchangeable k is low

fate and recovery of 15n labelled fertilizer urea applied to May 16 2023 15 n labelled fertilizer urea was applied at increasing rates 0 200 kg n ha⁻¹ in spring to winter wheat crops in the canterbury region of new zealand in three successive seasons 1993 94 1994 95 and 1995 96 recovery of fertilizer n by the crop grain chaff straw and roots ranged from 43 58 mean 48

recovery of 15 n labelled urea applied to the foliage of Apr 15 2023 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 half of the urea was applied shortly before anthesis growth stage gs 37 39 and half after anthesis gs 69 73 both portions being labelled

urea meaning definition production and more verywell health Mar 14 2023 urea is an organic compound formed when nitrogen and protein break down and is the main component of human urine it has many uses including in fertilizer and other industrial processes and in creams that treat skin disorders such as psoriasis eczema atopic dermatitis and ingrown nails

urea wikipedia Feb 13 2023 urea labeled with carbon 14 or carbon 13 is used in the urea breath test which is used to detect the presence of the bacterium helicobacter pylori h pylori in the stomach and duodenum of humans associated with peptic ulcers the test detects the characteristic enzyme urease produced by h pylori by a reaction that produces ammonia from

different microorganisms have a taste for different flavors Jan 12 2023 may 28 2024 biological and environmental research different microorganisms have a taste for different flavors of ammonia researchers determined the nitrogen source preference of different ammonia oxidizing microorganisms by growing cells in an ammonia urea mixture with nitrogen 15 labeled urea or ammonia and imaging labeled cells with

full article microbial immobilization of ammonium and Dec 11 2022 accordingly immobilization of NH_4N or NO_3N by microbes during incubation was calculated by subtracting fertilizer N immobilization at 0.5 h following the addition of 15 NH_4 and 15 NO_3 abiotic N immobilization from the fertilizer N immobilization at each soil sampling romero et al citation 2015 the present study focused

reducing greenhouse gas intensity using a mixture of Nov 10 2022 the one time application of common urea blended with controlled release urea (Cru) is considered effective for improving nitrogen use efficiency and grain yield and reducing the greenhouse gas emissions of summer maize in intensive agricultural systems however the trade off between the economic and environmental performances of different blended fertilizer treatments for different maize

fate and efficiency of ^{15}N labelled slow and controlled Oct 09 2022 studies with controlled release ^{15}N labelled sulfur coated urea (SCU) show benefits in situations such as paddy soils where losses from broadcast urea are a substantial problem

urea production an absolute environmental sustainability Sep 08 2022 the demand for urea as the most popular global nitrogen fertilizer is on the rise and as such its performance in an environmentally sustainable perspective relative to planetary boundaries is high on the agenda the increasing interest in nitrogen fertilizers is to improve agricultural methods for a better production rate but can it become environmentally sustainable which is due to the

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