

Cow urine fertilizer:

Cow urine can be used as a foliar spray or applied to the soil.

Nitrogen, phosphorus and potassium are the three major nutrients required for healthy plant growth. Cow urine contains significant amounts of both nitrogen and potassium. Research shows that only 20% of nitrogenous materials consumed by cattle is absorbed and 80% is excreted in urine and dung.

52% of Nitrogen returns in the form of urine while 28% return in form of dung

61-87% phosphorus and 82-92% potash were also obtained from urine.

In 24 hours a cow or buffalo can give 6 litres of urine. If a farmer can have 2 cows or buffaloes in her/ his house it gives 4380 litres of urine in one year which equals 65 kg nitrogen; that amount of nitrogen equals to 136 kg urea.

Impacts of cattle urine

- ✓ After analysis it is found that micronutrients increase in soil after application of cow urine.
- ✓ Color of leaves is more green than with the use of urea application.
- ✓ Residual effect of cow urine is present in next crop.
- ✓ Improves the Soil Texture
- ✓ Creates good environment in soil for earthworm growth
- ✓ Cow urine sprayed after 14 days of storage in cool place works as insecticide against aphids and other insects.
- ✓ It serves as growth promoter of plants
- ✓ The spraying of urine not only provides nitrogen for plants but also protects the plants from aphid and other insects and provides resistance to diseases.

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NOTE: - If cow urine is used in field continuously for three years then there will be no need of chemical fertilizer

Collection of urine:

Make drainage for flow and pooling of urine then collect in plastic drum or appropriate jars.



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The collected urine should be decomposed by storing up to 15 days.

Application of urine:

After decomposition the urine should be mixed with water and sprayed. For smaller plants mix 1 liter of urine with 10 liters of water, while for mature plants mix 1 liter in 5 liters of water and spray thoroughly starting from the top of plants.

Human Urine

Human urine can be used instead of cow urine, with the same benefits