

urine is a commodity we need to value

By using the water toilet, essential minerals are drained to the sewage treatment sites and unless large amounts of either land or energy are used to recover these minerals, they are washed down the river and to the sea and are lost for geological timescales.

Urine means more nitrates and phosphate in the river and our river is dying

Get to know more about it:

www.Teifi.one

www.richearthinstitute.org

Let's talk about urine

We produce between 0.8 L (1.5 pints) and 2 L (3.5 pints) every day. The first urination of the day is the biggest and can often be as much as half of all our daily wee. It is 90% water, 4% urea and 6% essential minerals (approx)

Ways of using urine:

- Fertiliser for all our food
- Household cleaning
- Sterilising surfaces
- Polishing metals
- Tanning leather
- Dyeing textiles
- hydrogen ions for batteries
- Medical; anti fungal, diuretic
- Beautifying- in face cream.

Project for Innovative Sustainable Human Waste Optimization



Best way to use urine?

IT DEPENDS ON TIME OF YEAR,
WEATHER AND SOIL TYPE.
IN WINTER, SPRINKLE IT ON
WOOD CHIP, COMPOST HEAPS,
BIOCHAR AND ASH FROM
WOOD-FIRES.
IN SUMMER MONTHS, SPRINKLE
IT ON THE EARTH FOR PLANTS.

Dead leaves, wood chips,
straw, plant stems and
cardboard are all high in
carbon. Over winter, the
nitrogen and phosphate in
urine activates compost.

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Interested in
collection?

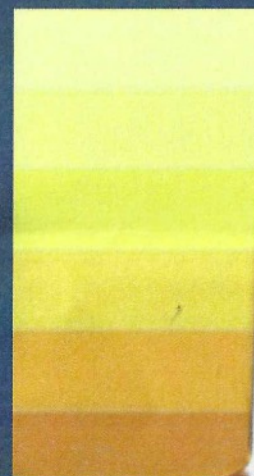
Urine as fertiliser?

Pure urine or diluted ? First
understand your particular soil;
the soil around your home, in
your garden or allotment.
A quick look at the weather, soil
surface and water drainage can
tell you whether your soil will
accept concentrated urine or
whether you need to add water.

Plants which benefit

- Any plant that's green and leafy
- Cabbage, lettuce, potatoes,
tomatoes, grapes, sweetcorn.
- Nut and fruit trees and soft fruit
- Nettles and hogweed love it but
do you want more?
- Also add your winter compost to
flowering & seeding plants
- Don't feed the Pea family; they
fix their own nitrogen

Hydration GUIDE



Good
Fair
Dehydrated
Dehydrated
Very Dehydrated
Severely Dehydrated

Don't put your urine in exactly
the same place every day;
spread it around and keep an
eye on how your plants are
growing. Never put your urine
in a ditch or water course.
Dilute 1 in 20 if your soil is dry.