Beyond the Flush: Tribute to Poo

A Toilet Tank Book



BEYOND THE FLUSH: A DEDICATED TRIBUTE TO POO

A Toilet Tank Book

A collection of Fun Fecal Facts and Friday Flush nuggets of wisdom



2023 © Water Environment Federation

BEYOND THE FLUSH

2022 Year of Poo set out to lift the lid on the power beyond the flush and put poo on the throne it so rightly deserves.

This is a dedicated tribute to poo featuring Fun Fecal Facts & floatable nuggets of wisdom from our Friday Flush squad. Talking straight about the crap we all create. Poo is an unspoken hero that has been here since day one without proper representation or recognition.

Frequently misunderstood, conveniently flushed and forgotten, and vastly underestimated – Poo has incredible power beyond the flush.

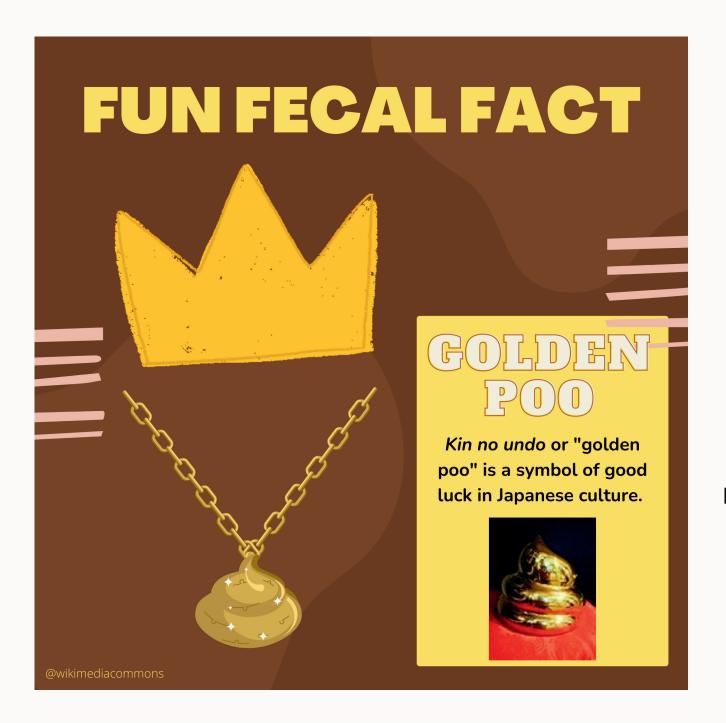
Brace yourself and step right in it to learn how everyday conveniences and choices can affect your poo-print. While it may just be a poo to you, the poo story starts with you.

Dedicated to all the proud poo-ducers who own their role and flush forward!

Floatable nugget #1

"2022 Year of Poo is really about personal empowerment, understanding that there is power beyond the flush, that we as producers all have that power to not only know what is happening but to know that we are part of a product stewardship line...that we need to pay attention to the quality of what we're sending down the pipe and to really own that. When the product comes out we have the responsibility to use that in a way that creates massive change, positive change in terms of climate mitigation, energy recovery, all these things that you can do just by flushing."

- Maile Lono-Batura, Director of Sustainable Biosolids Programs
Water Environment Federation





Step right in to our Fun
Fecal Facts - a feature
of 2022 Year of Poo.
Did you know a golden
poo is a symbol of good
luck? Click the link in
our bio to learn more.
2022yearofpoo.org
#funfecalfacts
#2022yearofpoo
#Ipootoo



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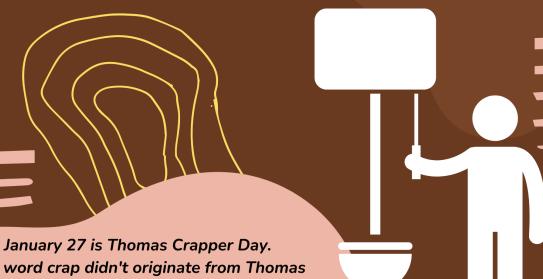
Sewage can serve as a public health hero well beyond pandemic, tracking a wealth of information on health concerns. In fact, sewage first gained disease-fighting fame during the global polio eradication efforts. A round of applause for poo! #funfecalfacts #2022yearofpoo #wwsurveillance #ipootoo



Did you know that poo has played a starring role during the COVID pandemic? Wastewater-based epidemiology has become an early alert system for viruses. If you have COVID-19, "wastewater surveillance" can detect it. SARS-CoV-2 RNA can be counted in post-flush samples to see if cases are increasing or decreasing in communities.



Poo doesn't just detect it doesn't lie!



HAPPY

CRAPPER

DAYI

January 27 is Thomas Crapper Day.

The word crap didn't originate from Thomas

Crapper, though we sort of have him to thank
for the fact that it is used today. It was a
middle english word which had fallen out of
use by the 1800's so no one in his own era
really gave a second thought to it. But in

America we never lost it, so when soldiers in
WWI were stationed in Britain and saw

Crapper on the toilets they thought it was
hilarious and re-popularized the word.

Courtesy of London Loo Tours



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Happy Crapper Day to one and all. Jan. 27 marks Thomas Crapper Day. The day marks his death as his exact date of birth is unknown. So when you flush today, remember the brain behind the bowl.

#2022yearofpoo
#funfecalfacts
#thomascrapper
#Ipootoo

How could we not recognize this momentous occasion - 2/2/22?!

Schools of thought differ on why #2 was coined for poo.

Some front-runners:

- 1) Two rhymes with poo
- 2) School code to go to the bathroom
- 3) A flush selection on certain toilets #1 pee and #2 poo

WHAT DO YOU THINK? SHARE YOUR #2 THEORY

Thanks to the 'keepers of the crystal bowl'
Flush LLC and London Loo Tours



Ever ponder why #2 is coined #2? Me too!
Here are some schools of thought. Got any #2 theories of your own?
2022yearofpoo.org
#2022yearofpoo
#funfecalfacts
#Ipootoo
#whodoes2workfor
#everybodypoops



London is host to the Royal Family,
Thames River, London Loo Tours, and a
creature of gigantic proportions beneath
the city - a 130-ton fatberg slopped
together from grease and wipes.
Encountered in 2017 and estimated to
possibly be the largest on record. A crew
harnessing fatberg blasters, had to work
around the clock to de-chunk it bit by bit.

WHAT
SECRET
WEAPON
WOULD YOU
WIELD TO
BLAST THE
FATBERG?



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Thar's a fatberg...to the lifeboats! Put down that wipe - it is feeding a giant that lives beneath our feet. Tune into our Friday Flush on 2/4 featuring @londonlootours at 2022yearofpoo.org #2022yearofpoo #funfecalfacts #lpootoo #everybodypoops #fatberg #londonlootours

Floatable nugget #2

"How much poo, and by extension toilets, connect to absolutely everything:
history, anthropology, architecture, art, comedy...
it's one of the most fundamental things that humans share.

If poo could talk it would say, I know all of your secrets. Because poo has literally been through us, it's transformed from one thing into another thing and then we expel it. That could be a good thing knowing secrets. It can tell us about our health and about our bodies. It could also be bad thing if those secrets get shared in places or in ways that we don't want them to be. Poo ended in an inappropriate place or spreading disease as it has often has done through history. Poo is all knowing."

- Rachel Cole-Wilkin, Creator
London Loo Tours



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Legend tells of The Big Flush. Have you heard it? Let us spin a pass your way with this Fun Fecal Fact post-bowl. AND turns out, National Poop Day is the day after the Super Bowl - so hearts and flushes to all of our pooandu crew. 2022yearofpoo.org #2022yearofpoo #funfecalfacts #bigflush #Ipootoo #everybodypoops



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Turns out toilet paper wasn't the only thing flying off the shelves in 2021. The demand for this Wisconsin-based product outpaced it's supply. Telling us that recycled nutrients are not just planet friendly, they're a hot commodity. @milorganite_fertilizer #2022yearofpoo #funfecalfacts#Ipooto #everybodypoops



Floatable nugget #4

"Be proud of what you do. This is literally the greatest recycling story in the United States and we don't talk about it.

Poo would tell us, use me to feed the world, fix the soils, put carbon and the recycled nutrients back in the soil so we can feed the masses and mitigate climate change. We must get this stuff on the land, we must recycle our nutrients and carbon."

- Ron Alexander, Founder

R. Alexander Associates, Inc.

Floatable nugget #5

"My grandpa used to say, you have to feed the earth like you feed people, and I thought the whole world did the same.

Each and every one of you is a super pooper. Your body produces an extremely valuable metabolic output – People's Own Organic Power (POOP). The planet needs it, the soil needs it, the circular agriculture needs it, the economy needs it, even the energy industry needs it. So, my dear humans, love thy sh*t."

- Lina Zeldovich, Author & Journalist

The Other Dark Matter

SHIMOGOE

In pre-industrial Japan, people called their poo shimogoe, which literally meant fertilizer from the bottom of a person.

Shimogoe collectors gathered the precious substance from cities and shipped it by boats to the countryside. Farmers sometimes argued who got to collect the valuable fertilizer and where--shimogoe from the more affluent parts of town went for premium price because people with more nutritious diets released more nutrients in their poo.



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During the Tokugawa period in Japan, one of the most valuable commodities was human waste shimogoe. Lina Zeldovich @superpooperpower wrote an entire book about the value of poo. Hear her Friday Flush here: https://youtu.be/DYyFa s1KH8I and on 2022yearofpoo.org #2022yearofpoo #funfecalfacts #theotherdarkmatter #lpootoo #everybodypoops



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Your body is a poo making factory that relies on food and nutrients for an offering to the lords of the flush. Returning those nutrients back to grow food - closes the nutrient loop. Don't take our word for it though hear it straight from a USDA Urban Agriculture pro and Univ. of WA researcher, Dr. Sally Brown on today's Friday Flush at 2022yearofpoo.org. #2022yearofpoo #funfecalfacts#fridayflu sh #ipootoo #everybodypoops

FUN FECAL FACT

FOOD LOOP

Who here likes to eat? The mere thought of your favorite dish can induce mouthwatering cray cray cravings - am I right? Just as food goes in, giving your body nutrients to function (or malfunction depending on the dish); it too goes out.

With those nutrients still intact, ready to close the nutrient loop and grow more food. So, next time you're chowing down on some satiable yumminess, remember that you are just one stop on the food loop rollercoaster.

Floatable nugget #6

"This is some good sh*t. When you take away all the stigmatism and you take away the fear and you just look at what that poo can do for a soil...it's amazing.

If you think about us as just as part of the journey, there in the great circle of organics recycling, we take our food, we use a lot of it for energy and the part we don't use comes out as poo and that poo is not done with the planet. It wants to go back and start that cycle all over again."

- Sally Brown, Professor University of Washington

Floatable nugget #7

"Started World Toilet Organization because people are so inhibited about talking about going to the toilet. (They) thought it is something rude, but they have to go there 6-8 times a day. I want to improve world toilet culture because there are over 1 billion people who don't have a toilet today."

Jack Sim, Founder
 World Toilet Organization

Floatable nugget #8

"Poop is a messenger about what is happening inside our bodies and we can adjust our diet, stress levels and sleep to stay in the Goldi-plops zone. Toilets of the future really needs to be accessible, sustainable, and dignified for all beings regardless of what kind of body they present in.

- Shawn Shafner, Founder
The POOP (People's Own Organic Power) Project



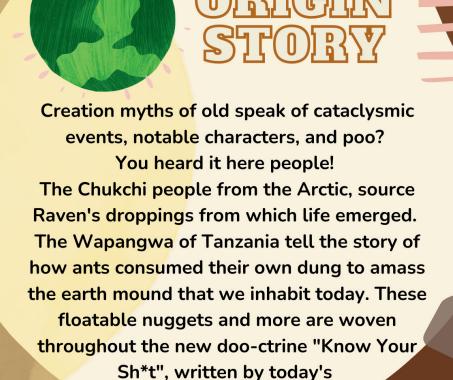


How do you level up toilet talk? You make a day of it - literally. Jack Sim (a.k.a. Mr. Toilet), World Toilet Organization, has dedicated the last 20+ years to leveling up the loo. Hear his Friday Flush at 2022yearofpoo.org @worldtoiletorg #2022yearofpoo #funfecalfacts #worldtoiletday #Ipootoo #everybodypoops



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Who knew there were origin stories that began with poo? Shawn Shafner, The Poop Project, certainly does along with many more fascinating flush insights. Check out Shawn's Friday Flush at: 2022yearofpoo.org @poop_project #2022yearofpoo #iPoo2 #funfecalfacts #everybodypoops



Friday Flush feature.

Floatable nugget #9

"Something that we think of as being a waste, something that brings up feelings of repulsion for us which is very natural and part of our evolution to keep us safe. How do we make it safe and turn it into a resource? What's the big picture here?

Recognize how normal (poo) is, respect it, but also really to utilize it as a resource because it is part of the solution in addressing climate change, enhancing our soils, feeding our cities and public health."

- Bernadette Drouhard, Water Process Specialist
Black & Veatch

Floatable nugget #10

"There is so much more to toilets, sanitation, and poo and all of it than you think. It's so easy to get locked into the mentality of what you grew up with or that you shouldn't talk about this. I mean I tell my 3 ½ year old that we shouldn't talk about it, but really, we should be talking about it.

Be curious, learn more, there's amazing books being written right now about poo, the nutrients, and the resources and the information that's in it. There's a new whole industry that is opening up here and get engaged!"

- Alex Knezovich, Managing Director of Market Development & Communications

The Toilet Board Coalition



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Record-setting fertilizer prices in 2021 and 2022 have led farmers to look for alternatives, like treated poo a.k.a. biosolids. A Texas A&M study recently projected that nitrogen fertilizer costs per acre in 2022 would increase 134% and phosphorus and potassium fertilizer by 93%. Hear how farm hand turned poo engineer, Bernadette Drouhard, found her calling in creating sustainable systems for communities across the U.S. at: 2022yearofpoo.org @bernadettedrouhard #2022yearofpoo #funfecalfacts #iPoo2 #everybodypoops







In honor of World Water Week, pay homage to our water resources and wildlife. If you like fish (as either a dish or fellow earth inhabitant alike) choosing products sans microbeads or plastic packaging can curb microplastics buildup found in our amphibious cohabitants as well as our waterways and poo fabulous resources. 2022yearofpoo.org #2022yearofpoo #funfecalfacts #iPoo2 #worldwaterweek

Floatable nugget #11

"I love sewers, we do not have cities without sewers, but that doesn't mean our current sewer system can't be better, can't be more efficient, could use less water, could be better at reducing the chemicals that are in biosolids and the same for composting toilets.

How can we create toilets that are not only better for the planet, but that people want to use and celebrate using. Sanitation is a central pillar of us healing the earth, healing the waters, and connecting back to nature."

- Kelsey McWilliams, Founder & Circular Sanitation Consultant
Point of Shift

Floatable nugget #12

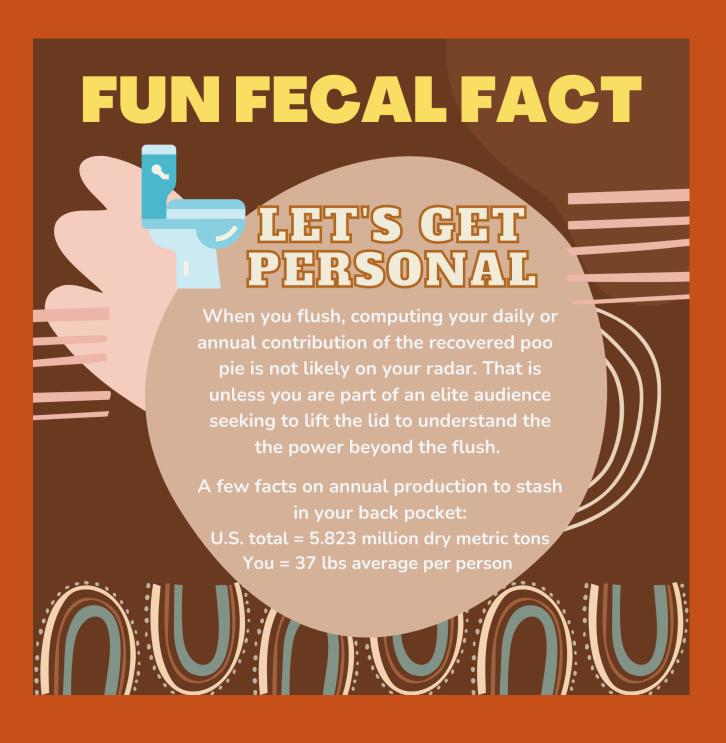
"Poo is a gift that keeps on giving. It gives when it arrives at the treatment plant and is being treated, it can give off biogas which can be used to produce methane which can be an equivalent of natural gas and power vehicles, electric engines. So poo starts giving right away. And then once it's treated it goes out into the world, if it's composted, it goes on soil and slowly releases it's nutrients. If it's directly land applied, it's more immediate nutrients so it just keeps on giving and it makes the soil healthier which results in cleaner water."

Nora Goldstein, Editor
 BioCycle



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Some data points on treated poo to geek out on and insert into future curious conversations. Pondering other poo data discoveries? Visit our Po(o)p Survey at 2022yearofpoo.org to cast your vote on which state is the top poo-ducer. Thanks to biosolidsdata.org for curating these nuggets of wisdom. #2022yearofpoo #funfecalfacts #iPoo2 #everybodypoops







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Nearly 50 years ago, poo was called out as a wasted natural resource in the seminal book, Sensible Sludge. How have we progressed since then, how have we regressed? Tune in to our latest, Friday Flush with Nora Goldstein, @BioCycleMag, to hear how talking poo was a just part of the family business. 2022yearofpoo.org #biocyclemagazine #2022yearofpoo #funfecalfacts #iPoo2 #everybodypoops27

Floatable nugget #13

"1 in 2 people don't have access to safe toilets, it's kind of mind blowing if you think about it. Toilet access issues have been kind of consistent throughout history.

1) Access issues are everywhere, it's not just a thing over there. It's in your backyard no matter you live. 2) Access issues are timeless. We know that there were issues with access to toilets for at least the last 5,000 years. 3) Access issues always reflect disparities and inequities in society. It's the same thing we saw Mycenaean Greece and Rome. 4) We don't always do a good job addressing these issues. Why do we use clean water to flush toilets? Why do some sewers output into waterways?

Poo is a tool that could be used for good or evil. Good being using it for reusable purposes like biogas or compost fertilizer. Or evil such as if we leave it alone and don't manage it well like a tool should be managed then it spreads diseases like cholera and typhoid and makes our waterways disgusting and everything else really a big bummer."

- Kim Worsham, Founder & Principal FLUSH LLC



Why do archaeologists LOVE toilets? Often unearthed, these gold mines (or encapsulated time capsules) can unveil ancient diets, health, and diseases. What can toilet history also tell us? Access issues are timeless and almost always repeat the same saga - the haves & have nots. Fast forward to present day – over 2 million Americans do not have safe toilets at home, according to the US Water Alliance.

2022yearofpoo.org #2022yearofpoo #funfecalfacts #iPoo2 #everybodypoops



Floatable nugget #14

"Once you break the silence or taboo about people not wanting to talk about this is that people actually are willing to think about creative ways of managing wastewater more efficiently, creative ways of harvesting the nutrients that are in that wastewater, creative ways of turning the waste to energy. There is a whole community of people out there that are really excited about this work once you open yourself up to talking about it."

- Chris Clapp, Executive Director Ocean Sewage Alliance





The effects of sewage pollution impacts our daily lives. But the more we talk about it, the more we can do to fix it. The @oceansewagealliance is committed to reducing the threat of sewage and other wastewater pollution in our oceans by creating awareness about existing solutions like treating and recycling our waste before it even gets to the coastal shores. #2022YearofPoo #funfecalfacts#StopSew agePollution #iPoo2 #everybodypoops #letstalkpoo#poo #water #sanitation #flush

Floatable nugget #15

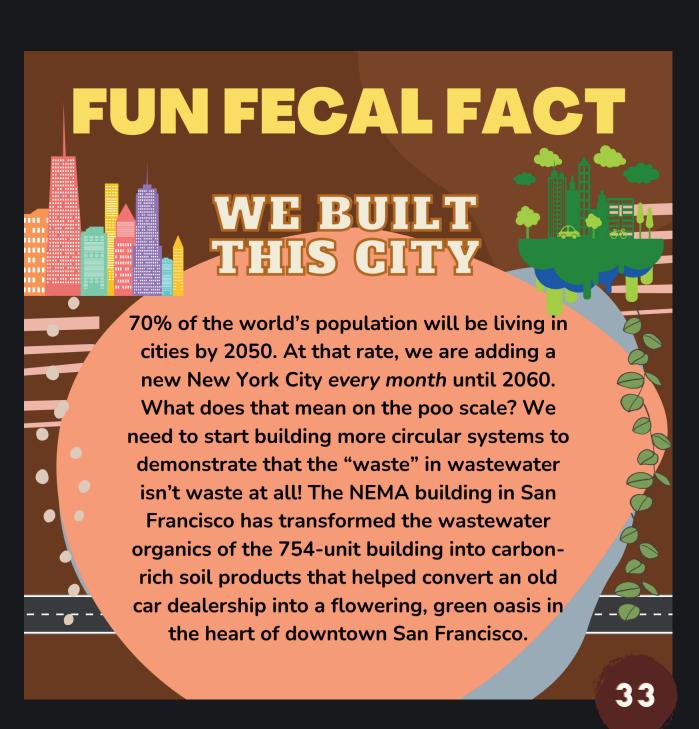
"The waste in wastewater is not really waste at all. Wastewater is comprised of clean water, of nutrients, of organics, of energy, all of these things we can recover and repurpose. We are of the camp of moving away from wastewater treatment to more of a resource recovery approach, shifting us away from a linear approach of using water once and getting rid of it to instead a more circular approach.

Taking something like wastewater organics – poo – and turning it into an amazing product which thanks to the human digestive system is an endlessly renewable resource."

-Aaron Tartakovsky, Founder Epic Cleantec



Rapid population growth, aging infrastructure, and the impacts of our changing climate are already evident. As our cities grow, we need to rethink how we manage our wastewater resources, showing the world that the "waste" in wastewater isn't really waste at all. @Epiccleantec converts building wastewater into high quality soil amendments, purified recycled water, and recovered wastewater heat. helping buildings to reuse up to 95% of their water and divert tens of thousands of pounds of GHG emitting wastewater organics – i.e. poo – from landfill. #2022YearofPoo #funfecalfacts #iPoo2



Floatable nugget #16

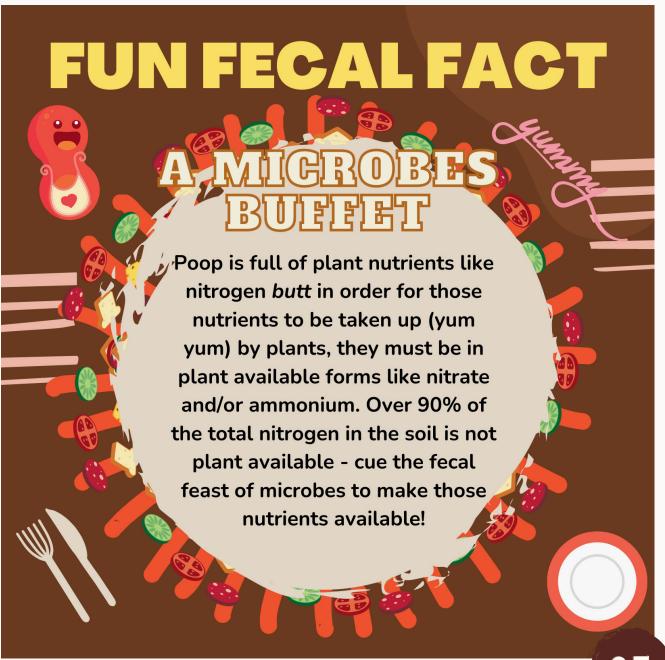
"Nature is a looping system. Nature is essentially engineered to get rid of all of our waste and to recycle everything. There is no one way in and one way out. It's all just a giant circle. You and I go to the bathroom and then that becomes the food for the macro and microorganisms in the soil and as they break down those organic molecules they become plant available, things like nitrate will help your plants grown green and healthy"

- Shea Dunifon, Education Coordinator Pinellas County Utilities, Florida



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Irresistible delicacies may not immediately come to mind when you think of soil nutrition and yet that is exactly what microbes fancy when they feast on the nutrients from the 5star restaurants where poo poo platter is what's for dinner. #2022yearofpoo #funfecalfact #iPoo2 #letstalkpoo#plantnut rients #soilhealth #recoveredresources







Taking the lead with nearly 2 billion tons of manure production annually, cows make human poo production appear minuscule in comparison.
#2022yearofpoo #funfecalfact #manure
#letstalkpoo #iPoo2

Floatable nugget #17

"We have the power and technology to be way more thoughtful and sustainable and to rethink what has value, what can help us solve many of the problems that we're facing today from global warming to food insecurity to water shortages, health and sanitation challenges.

Nature has had this very efficient recycling system for millions of years and that we've only hurt ourselves by removing ourselves from that system. We need to be in better balance with the world inside of us as well as the world all around us."

- Bryn Nelson, Microbiologist and Science Journalist Flush: The Remarkable Science of an Unlikely Treasure



Take it from the pros at @woodlandparkzoo that turn 1,000 tons of exotic and farm poo alike into a sought after compost resource for the Greater Seattle community. Rhinos, Giraffe, Hippopotamus, Zebras...oh my! #2022yearofpoo#funfe calfact #everybodypoops #zoodoo #letstalkpoo #animalspootoo



Floatable nugget #18

"When manure comes out the back end of an animal or a human, we're animals too, it is chockful of incredible microbes, incredible nutrients things that our digestive systems can't take up all at once and it is a tremendous waste and loss to our environment to throw that away. It is a much better use of our time, our resources, and our energy to turn that into a compost product or a biosolids or anything where we can get it back into the earth from where it came.

I would encourage you all to think twice about what happens to your poo, to think twice about what happens to your animal's poo and to really appreciate all that it holds and all that it can become."

- Liv Johansson, Dr. Doo Woodland Park ZooDoo

FUN FECAL FACT

FLUSH FORWARD

The act of the flush rarely connects our mental synapse to the sheer scale of the journey our flush is about to embark upon. For instance, if you flush in Washington, DC, you are contributing to the 450 tons per day curated by DC Water's Bloom Biosolids program. Think 450 Liberty Bells in weight/day. 56,000 tons were sold in FY2022 alone.



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What may appear as an artfully designed network of systems with large tanks, murky fountains, and conveyor belts is just one stop on the carbon and nutrient loop. Utilities everywhere work 24/7/365 to make sure that resources recovered from the flush continue to serve their highest purpose - from renewable heat & green electricity to fertilizer. 2022yearofpoo.org @bloom.soil @dc.water #2022yearofpoo#funfec alfact #water #biosolids #letstalkpoo#everybody poops

Floatable nugget #19

"It's our job at the treatment plants to keep the pollutants out of our receiving waters and we discharge out to the Potomac which then goes to the Chesapeake Bay – a resource well worth preserving.

We are trying to complete that nutrient and carbon cycle of the planet, that's really the way the Earth is supposed to work. No other animals take their waste and lock it into a landfill right, so we should really do the same thing. We're part of the ecosystem.

I prefer the term enriched water (vs. wastewater), that's enriched with carbon which is energy, heat which is also energy and nutrients which we can extract. Those are all valuable assets. This really is a cycle and to interrupt that cycle is really sort of tragic."

- Chris Peot, Director of Resource Recovery

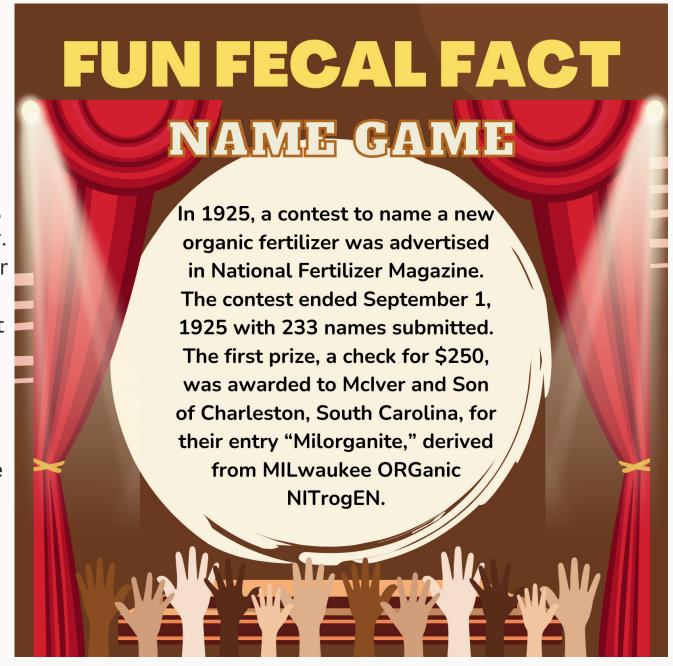
DC Water Bloom



And the success of one of the oldest recycling efforts continues to this day, nearly 100 years later.

@Milorganite_fertilizer 's claim to fame doesn't stop there – it has also appeared in some notable movies including the classic "Caddyshack". Star quality was just in the cards.

2022yearofpoo.org #2022yearofpoo #funfecalfact #everybodypoops #flush



Floatable nugget #20

"It's not just engineering obviously that's involved in all of the fascinating world of poo. There are all kinds of different professions involved in accomplishing what we do right so, we have machinists, mechanics and electricians and steam fitters and mill rites and we also have the professional side, we have lawyers, we have agronomists, we have laboratory folks, we have marketing staff, we have planners...there's just a huge variety of different white and blue collar roles that are involved in the fascinating world of poo."

- Rick Niederstadt, Capital Program Support Manager Milwaukee Metropolitan Sewerage District/Milorganite

FUNFECAL FACT POO POWER



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Flush = power! Just like there is nutrient gold in those pipes, so too is a sustainable power source that can be harnessed rather than wasted.

2022yearofpoo.org #2022yearofpoo #funfecalfacts #iPoo2 #poopower #circularwatereconom Water and wastewater utilities make up nearly 2% of global GHG emissions. This includes methane and nitrous oxide from poo-processing. It's due time to turn that poo to power and lead on climate efforts!



Floatable nugget #21

"Poo is showing up on the global stage in these climate conversations to say, 'hey — we can be part of the solution here. I predict the next few years for poo are going to be huge!

Poo careerers of the world are not telling our own story enough of how important poo and wastewater is to health to society but even as a resource."

Poo is power – it's got energy, it's got resources, it protects our environment and our health when we manage it correctly and frees people from some of these immense challenges they face when they have adequate sanitation available to them."

Austin Alexander, Vice-President of Sustainability and Social Impact
 Xylem



What's that smell?

Specifically, it is likely hydrogen sulfide (H2S) and ammonia (NH3) - these are the two main gasses that give wastewater a bad smell. Stench compounds don't work alone however, the pH of said funk is what really turns up the dial on odor intensity.



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Next time you catch a whiff, you can now casually mention offhand the culprits behind that odor on a molecular level. Go ahead, flex your fecal facts and the fans will follow - haha! 2022yearofpoo.org #2022yearofpoo #funfecalfacts #iPoo2#letstalkpoo #poocultivators #wateraccess #biosolids #water #odor

Floatable nugget #22

"Don't take advantage of the industry that takes care of us. Get into this field! It's one of the most important fields that exist. One of the baseline, essential fields. Without us civilization as we know it doesn't exist in the same way.

We need more cultivators. (A lot of sewage that is produced in the world, a lot of the water gets wasted. Poo gets wasted and is dumped into the rivers and oceans and we don't want that.) Let's cultivate this resource. Make this resource grow into the point where not only is it a resource, it can shown to be 100% the one water cycle."

- Cody Diehl, Wastewater Treatment Plant Operator Polk County Utilities, Florida & WEFTEC Operations Challenge Bio-Wizards Team



Elusive, underground for a good portion of existence, and something we all doo – flush. Let's take a moment to tip our hats, applaud, and give thanks to those brave enough to tackle these necessary jobs that make modern society function.

2022yearofpoo.org
#2023pooandme
#funfecalfacts #iPoo2
#letstalkpoo#dirtyjobs
#biosolids #water
#everybodypoops



Floatable nugget #23

"I like to do films about things that we don't talk about because it's very funny.

Talking about farts and poop is very funny. We did it as kids and as we become adults we just don't really talk about it too much anymore.

The other thing is there is so much interesting stuff going on especially about us recycling our own waste and what we can do with this and it's an environmental issue because there's more and more human beings all the time. When I made the film there were 7.7 billion human beings on the earth, now there's 7.8 and in 10-15 years, there's going to be 10 billion people on the earth. So there's going to be more and more poop around. The fact that we can get all of our human waste out to a certain area allows us to build up major cities."

- Troy Hale, Documentary Director and Professor of Practice Sh*t Save the World and Michigan State University



Replacing the diffusers in the Prince William County Service
Authority's aeration basins is a dirty job, but somebody has to do it!
The diffusers help properly oxygenate the tanks so that the microscopic bugs we use to eat nitrogen can thrive.

Photo Credit: Joseph K/ Prince William County Service Authority

FLUSHERS UNITE

Take a sit down to learn how everyday conveniences and choices can affect your poo-print. A perfect gift for:

- Co-workers who are hard to shop for and could use a giggle
- Visitors to environmental education centers
- Friends and family who lead the poo fandom pack

Ready to step right into it? Pledge and pass along the power of poo.

Pledge of Poo

One Flush
Underground
Indivisible
With Ownership and
Bounty for All