



Food and Agriculture
Organization of the
United Nations



SOILS, WHERE FOOD BEGINS



World
Soil Day
2022

CAMPAIGN REPORT





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1. EXECUTIVE SUMMARY

Through their extraordinary capacity to form, store, transform, and recycle nutrients, soils produce 95 percent of our food. Healthy soils are the basis for a healthy and nutritious food: it all starts in soils... where food begins!

World Soil Day (WSD) attention continues to build, reaching new people and communities as soil is increasing in importance on the global agenda. The year 2022 marked the long-awaited return of in-person events and 3 000 people from 154 countries attended the hybrid ceremony held in the Sheikh Zayed Centre: the Food and Agriculture Organization of the United Nations (FAO) headquarters in Rome. This year showed an astonishing increase in registered events, from 781 in 2021 to 2 308 events in 2022, an overall increase driven by Thailand hosting more than 1 500 events celebrated in all provinces of the country. Djibouti also merits a special mention, hosting a full week of activities engaging farmers, laboratories and students.

The media also pitched in with [728 published articles](#) reaching an incredible 3 863 321 033 people. Media outlets across the globe ran stories and articles on soil, among them Xinhua, The Bangkok Post, EFE/Infobae, La Jornada, La Repubblica, TASS/Rambler, El Espectador, Urdu Point, Vatican News and Osservatore Romano, Daily Nation, multiple Caribbean Guyana's, Antigua newsroom, St. Kitts' SKNIS, Hindustan Times and The Hindu, Uganda's Monitor, The Scotsman, The Seychelles Nation, Corriere della Sera, Sky News and Emirates News Agency. [UN chronicles](#) published a World Soil Day piece by Ronald Vargas. Forbes featured an article titled The World Soil Imperative: [What If They Planted A Garden And Nothing Grew](#). A full list of articles can be found in Annex 1.

On social media, FAO made its voice heard by sharing soil-specific content on its corporate platforms. In total, the organization published over [400 multilingual posts](#) on social media and was mentioned 10 300 times in related content, potentially reaching 145 million people. The #WorldSoilDay and #Soils4Nutrition hashtags peaked between 4 and 6 December, with 48 000 posts engaging 488 million users, a 32 percent increase from 2021.

Two technical publications were presented at this year's celebrations: [The Global Status of Black Soils](#) and the key messages and findings of [the Soil Atlas of Asia](#). Furthermore, WSD marked the lead-up to COP15, where FAO and the Global Soil Partnership (GSP) were invited to facilitate the implementation of Conservation and Sustainable Use of Soil Biodiversity with partners. [The Global Soil Biodiversity Observatory](#) was also launched during a ministerial dialogue.

This year's WSD was particularly memorable for the GSP. First, it marked the GSP's tenth anniversary, a decade dedicated to raising soil's profile and putting sustainable soil management in action. An impressive soil cake was shared among the in-person attendees. Finally, the GSP was awarded the IUSS Distinguished Service Medal for its "outstanding actions in favour of soil sciences and for promoting the knowledge and appreciation of the soil resource".



2. BACKGROUND

December 5 is WSD, the United Nations day celebrating healthy soils for a healthy life. Why do we need to put a date in our diaries every year to stress how important soils are? The answer is simple: because the fate of our planet, from its ecosystems to natural resources, biodiversity, and people, hinges on the state of its soil.

In December 2013, the 68th session of the General Assembly of the United Nations (UNGA) named 2015 as the International Year of Soils (IYS) and December 5 as World Soil Day, the official day to raise awareness of soils (A/RES/68/232). The UNGA gave FAO's GSP the official mandate to coordinate the implementation of its global campaign. World Soil Day is observed on December 5 in recognition of the official birthday of the late King Bhumibol Adulyadej of Thailand, who was one of the leading proponents of this initiative.

More specifically, the objectives of the print and digital campaign on soils are to:

- inform, educate, and engage both followers and the public on the importance of soils;
- raise awareness on how we all rely on healthy soils;
- show how sustainable soil management practices are crucial for the health of ecosystems and human well-being; and
- call on governments, the private sector, and the public to safeguard soils.

World Soil Day acts as a global celebration consisting of activities such as photography exhibitions, film festivals, lectures, panel discussions, puppet shows, food bazaars, tree planting, fashion parades, concerts, sports competitions, quizzes, drawing contests, seminars, workshops, speeches, public awareness campaigns, and poetry recitals. Every action we take has an impact. These events involve FAO offices and GSP partners as well as international and national non-governmental organizations (NGOs), policymakers, international celebrities, local dignitaries, farmers, soil practitioners, civil society entities, and young people.

3. THEME OF THE YEAR: SOILS, WHERE FOOD BEGINS

For soil to support healthy crops, it requires a balance between nutrients removed from and returned to the soil. However, fertilizer overuse, underuse, and misuse have made nutrient imbalance as one of the top ten soil threats.

Unsustainable soil management has caused a drastic decline in food vitamin and nutrient content. Over two-thirds of the world's population are lacking in one or more essential minerals. Yet, by 2050, agricultural production must increase by 60 percent globally – and almost 100 percent in developing countries – to meet food demands alone. The loss of soil fertility leads to low crop yield and crop failure, resulting in hunger, malnutrition, and poverty. About 33 percent of the global soils are already degraded, and the trend is accelerating.

About half of the applied nitrogen through fertilizers enters the food chain, while the rest is lost to the environment. Synthetic and mineral fertilizer use has increased by 50 percent in the last 50 years. In the case of N fertilizers, this figure has risen to 800 percent, causing a surplus of reactive nitrogen in the environment with devastating consequences. However, the global distribution of nutrient inputs are not even, and 30 countries use more than 90 percent of the mineral and synthetic fertilizers in the world. In highly fertilized areas, 50 to 60 percent of the nutrient inputs become pollution of groundwater, freshwater, and coastal waters.

The underuse of fertilizers also greatly impacts soil health, leaving soil organisms without access to essential nutrients to grow and support the nutrient cycle. Nitrogen fertilizers feed 48 percent of the world's population, but smallholder farmers, particularly from vulnerable countries, lack access to nutrient amendments and are currently facing a 300 percent increase in fertilizer prices, impacting food security and farmers' livelihoods. The answer to the crisis is not simply to facilitate the production of more fertilizer but to also increase fertilizer use efficiency and strengthen and promote alternative nutrient sources. Using sustainable soil management could produce up to 58 percent more food.

[Read the key messages.](#)

3. CAMPAIGN MATERIAL: CONTENT AND PRODUCTS

The World Soil Day 2022 campaign was launched with a special announcement [newsletter](#) in September, presenting the three contests and the campaign toolkit. The Food and Agriculture Organization of the United Nations offices, as well as private and governmental initiatives and the general public, were invited to participate in the celebration using official campaign materials. Easily accessible information and visuals on the website, combined with a TRELLO board, reinforced the identity of World Soil Day through large and small celebrations worldwide.

At the centre of the campaign was the visual identity package composed of the official campaign poster, social media cards, mega banner, web banner and button, T-shirt print design, five gifs, and videos and animations available in all UN languages. The campaign video [Healthy soils: the foundation of healthy food and a better environment](#) was published in all six official UN languages, in addition to Farsi, Italian, Norwegian, and Portuguese. Also, a virtual background and PowerPoint template, seven key messages cards, six action cards, and a soil card carousel were produced in English. In addition, a [video](#) marking the tenth anniversary of the GSP (2012–2022) was published.

Photo 1: Front page of the Global Soil Partnership anniversary video, available at: www.youtube.com/watch?v=cs39tN0yRfs

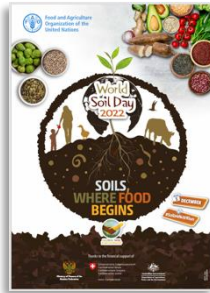


4.1 MATERIAL AND TOOLKIT

Table 1: Overview of the World Soil Day material and toolkit available for download at the official website



PROMOTIONAL VIDEO: [WSD OFFICIAL POSTER HEALTHY SOILS](#)



[WSD OFFICIAL POSTER](#)



[WSD SOCIAL MEDIA CARDS: SOILS: WHERE FOOD BEGINS](#)



[WSD POWERPOINT TEMPLATE](#)

ALL UN LANGUAGES

+ FARSI, NORWEGIAN, ITALIAN, AND PORTUGUESE

ALL UN LANGUAGES

+ CATALAN, AND POROGUEUESE

ALL UN LANGUAGES

+ PORUTUGESE

ENGLISH, FRENCH, AND SPANISH



[BRICKS FOR LIFE BY FOSSICK PROJECT](#)



[WSD MEGA BANNER](#)



[WSD BANNER AND BUTTONS](#)



[WSD T-SHIRT PRINT](#)

ENGLISH

ALL UN LANGUAGES

ALL UN LANGUAGES

+ PORTUGUESE

ALL UN LANGUAGES



ELEVEN SOCIAL MEDIA GRAPHIC CARDS : SOILS4NUTRITION

ALL UN LANGUAGES
+ PORTUGUESE AND HEBREW



SEVEN SOCIAL MEDIA IMAGE CARDS: KEY MESSAGES

ENGLISH



SIX SOCIAL MEDIA CARDS : ACTIONS TO IMPROVE SOIL NUTRIENT BALANCE

ENGLISH



CAROUSEL: 3 REASONS WHY SOILS ARE IMPORTANT

ENGLISH



WSD VIRITUAL BACKGROUND

ENGLISH



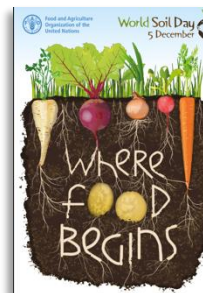
FIVE ANIMATED CARDS

ALL UN LANGUAGES



INFOGRAPHICS

ALL UN LANGUAGES



WHERE FOOD BEGINS POSTER

ALL UN LANGUAGES



SOIL DOCTORS
EDUCATIONAL POSTERS IN
SOIL NUTRIENTS

WORLD SOIL DAY LOGO

LONG INFOGRAPHIC

THREATS TO SOIL
FUNCTION: NINE CARD
SERIES POSTCARDS

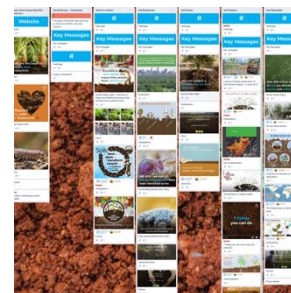
ENGLISH, SPANISH, FRENCH,
BENGALI, AND SEVERAL LOCAL
LANGUAGES

SIX LANGUAGES

ALL UN LANGUAGES

+ HUNGARIAN AND GERMAN

ENGLISH, FRENCH AND
SPANISH



INFOGRAPHIC: HEALTHY
SOILS ARE THE BASIS FOR
HEALTHY FOOD
PRODUCTION

FACTSHEET: HEALTHY SOILS ARE THE
BASIS FOR HEALTHY FOOD
PRODUCTION

VIDEO: SOIL AND
NUTRITION

ALL COLLECTED
INFORMATION IS ON THE
SOIL TRELLO BOARD!

ALL UN LANGUAGES

+ TURKISH AND ITALIAN

ALL UN LANGUAGES

+ ITALIAN

ENGLISH

5. INTERNATIONAL SOIL PRIZES



Photo 2: Glinka World Soil Prize winner Ashok Kumar Patra

5.1 THE GLINKA WORLD SOIL PRIZE

The [Glinka World Soil Prize](#) 2022 was awarded to Ashok Kumar Patra, described as "an outstanding soil scientist and a strong advocate of sustainable soil management in India and worldwide". Through 33 years of research, education, and extension, he has made significant contributions to the improvement of food and nutritional security through integrated nutrient management while uplifting the research standards of the institute (ICAR-IISS) to the global level.

[Read the article](#) | [Watch the video](#)

5.2 THE KING BHUMIBOL WORLD SOIL DAY AWARD



Photo 3: The King Bhumibol World Soil Day Award was awarded to The Institute of Geology (IGI)

The [King Bhumibol World Soil Day Award](#) was awarded to The Institute of Geology (IGI) of the National Autonomous University of Mexico (UNAM) for its commitment to raising awareness of the importance of healthy soils. During last year's WSD celebrations, the institute addressed the issue of soil salinization under the motto *Halt soil salinization, boost soil productivity*. Two months ahead of that year's WSD, IGI-UNAM launched an exciting multidisciplinary campaign. This carefully planned effort culminated with a series of events between 29 November and 5 December 2021 to mark WSD. The campaign

mobilized young soil scientists and individuals interested in learning more about soils, particularly their formation, classification, geography, evaluation, education, and paleopedology. Her Royal Highness Princess Maha Chakri Sirindhorn of Thailand presided over the awards ceremony, held in Bangkok on 5 December 2022. Axel Cerón González and Elizabeth Solleiro Rebolledo received a cheque for USD 15 000 and the medal on behalf of IGI-UNAM.

[Read the article](#) | [Watch the video](#)

6. CITIZEN ENGAGEMENT

Supplementing the campaign material, the GSP launched contests to encourage participation by as many people as possible in the months leading up to WSD. Three competitions ([From Soil to Plate](#), [Kids4Kids poster](#), and producing a [children's book](#)) were launched to raise awareness of sustainable soil management and nutrition. In line with tradition, an open call invited all to illustrate through recipes, posters and booklets why healthy soils are fundamental for a healthy life. More 500 designers, educators, and youth submitted their entries on this year's theme, *Soils, where food begins*.



Photo 4: The three contests launched as part of the World Soil Day campaign 2023
 Source: World Soil Day, 2022. Contests. In: FAO. www.fao.org/world-soil-day/contests

Laura Bertha Reyes Sanchez, President of the International Union of Soil Sciences (IUSS), announced the poster and booklet contest winner at the official HQ ceremony following an online public ballot.

6.1 KIDS2KIDS POSTER DRAWING COMPETITION

Children and teens aged between ten and fourteen were encouraged to use their imagination to create posters showing how healthy soils grow healthy and nutritious food. Over 200 amazing entries were received from all over the world and an online voting system was set up to encourage public participation. The ballot reached 25 695 votes in less than 48 hours! Certificates were sent to winners of the WSD posters and booklet contests.

Submissions were divided into two categories (by age) to level the playing field, and three winners were selected in each category.

CATEGORY A: 5–10 YEARS OLD



<p>First Edanur Matara, Roşna Boz and Aslı Çalış, five years old: Evka-2 Izelman Sabiha Gokcen Nursery and Kindergarten Education Centre, Turkey</p>	<p>Second Çağan G., six years old: Evka-2 Izelman Sabiha Gokcen Nursery and Kindergarten Education Centre, Turkey</p>	<p>Third Areeha Ashfaq K., six years old: Bloomfield Hall School, Multan Cantt, Pakistan</p>
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Table 2: Winners of the kids2kids poster drawing contest category 5-10 years old.



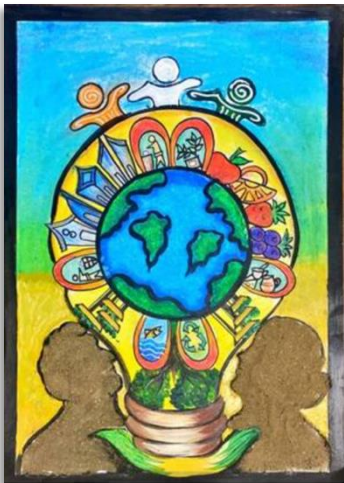
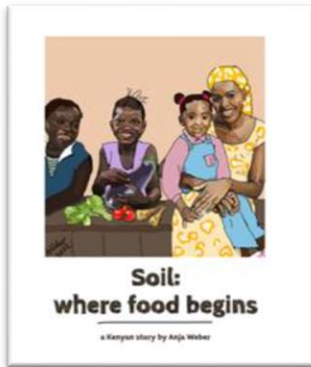
CATEGORY B: 11–14 YEARS OLD		
		
<p>First Yun-Yi Y., 14 years old - Pink Art School, China</p>	<p>Second Jie-Yu L., 14 years old: Pink Art School, China</p>	<p>Third Jiya G., 11 years old - Gems Modern Academy, Dubai, United Arab Emirates</p>

Table 3: Winners of the kids2kids poster drawing contest category 11 - 14 years old.

[KIDS2KIDS POSTER DRAWING CONTEST](#)

6.3 CHILDREN’S BOOK CONTEST

The children book contest called for designers, scientists, and other soil-acquainted creators to submit short books on the importance of soils for food and nutrition with the tagline *Soils, where food begins*. Submission was open from early September to 22 November and the GSP received a total of 25 artworks of a high standard. The winner received a cash prize of USD 1 000, while second and third place holders received a cash prize of USD 500 and USD 250, respectively, from IUSS and FAO’s GSP.



First

Soil: where food begins

A Kenyan story: the conversation about a little girl and her mother who take a walk to discover different soil types and to understand which kind of soil plants need to grow well.

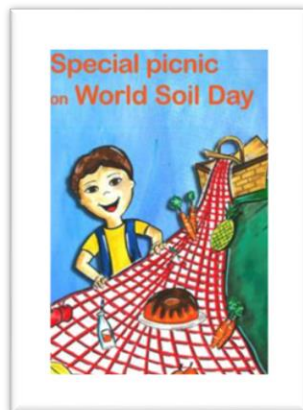
By Anja Weber, Development Advisor, GIZ, Kenya



Second

The amazing journey where food is born

By Juan Camilo Fontalvo Buelvas, Universidad Nacional Autónoma de México, PhD student in Sustainability Sciences, Mexico



Third

Special picnic on World Soil Day

By Jully Gabriela Retzlaf de Oliveira, Universidade Estadual do Norte do Paraná – UENP; Professora adjunta C do colegiado de Geografia, Brazil

CHILDREN BOOK CONTEST

6.4 FROM SOIL TO PLATE CONTEST

The *From Soil to Plate* contest served as an opportunity to highlight the link between nutritious food and healthy soil. Under the motto *Soils, where food begins*, the contest was an opportunity to celebrate the richness of our soils, coinciding with the tenth anniversary of FAO's GSP!

Any edible ingredient could be used to prepare the cake – savoury or sweet. Nearly 200 submissions were received, all of which illustrated wonderful and creative cakes from around the world! Most of the cooks – of all ages and levels – also included interesting information about the dishes and the people who made them.



First

Soil Science Society, Paraguay



Second

Ayten Namli



Third

BSWM-Soil Survey Division in the Philippines

7. EVENTS

7.1 WORLD SOIL DAY 2023 OFFICIAL CELEBRATIONS

This year saw the return of in-person events, with most WSD celebrations taking place in a hybrid format. The official WSD celebration, held at the FAO Headquarters on 5 December, was also attended by 3 000 remotely-connected participants from 154 countries. The Food and Agriculture Organization of the United Nations's Director-General opened the official FAO celebration by highlighting the need to produce safe and more nutritious food containing multiple micronutrients while avoiding the degradation of our soils and reducing the emissions and pollution of our agrifood systems.



"The role of soils and their fertility are more important than ever to ensure food security for all and enable the transformation of agrifood systems to be more efficient, more inclusive, more resilient and more sustainable"

FAO Director-General Qu Dongyu

His Excellency Alexandra Valkenburg, Permanent Representative of the European Union to FAO and Holy See, emphasized the importance of soil in our daily lives for food, climate, local ecosystems, livelihoods, and the planet as a whole. His Excellency Guang Defu, Permanent Representative of China to FAO, stressed the importance of black soils in China, as they constitute the food basket of the whole country. He also recalled that the Black Soil Law for China was promulgated in August this year. His Excellency Victor Vasiliev, Permanent Representative of the Russian Federation to FAO, reminded the participants that the preservation of soil fertility is the basis for agricultural intensification, which can only be achieved through sustainable soil management. Finally, HE Lee Seong-ho, Permanent Representative of the Republic of Korea to FAO, emphasized the role played by World Soil Day in encouraging societies to improve soil health and thus address the major global challenges that humanity is facing.

Three artistic elements complimented the agenda and prompted a broader reflection on the role of humans, nutrition, and soil. Dancers from the Mvula Sungani Physical Dance Academy performed an eperformance to *The Song of the Earth* by Gustav Mahler. In addition, the Sheikh Zayed Centre hosted an exhibition with Roberto Panico's sculpture, *Living in FAO*, and a selection of works by photographer Stefano Lotumolo, entitled *Sip of Earth*.

The year 2022 was a special one for the GSP, which celebrated its ten-year anniversary and received the prestigious IUSS Distinguished Service Medal. Laura Bertha Reyes Sanchez, IUSS President, handed out the award in person stating, "this medal is given in recognition of the outstanding actions of the GSP in favour of soil sciences and for promoting the knowledge and appreciation of the soil resource". FAO Director-General Qu Dongyu accepted the awards on the behalf of GSP.

[Photo gallery of the WSD celebration, FAO HQ, 5 December 2022](#)



Photo 5: Laura Bertha Reyes Sanchez, IUSS President, hands the IUSS Distinguished Service Medal to FAO Director-General Qu Dongyu, who accepted on behalf of the GSP

Official events around the globe

Between 1 and 15 December, several FAO regional, subregional, liaison, and country offices organized official celebrations: Italy (2 December), Republic of Korea (the) (5 December), the United Arab Emirates (5 December), Uzbekistan (5 December), Kazakhstan (5 December), Belgium (5 December), Hungary (5 December), Peru (5 December), France (6 December), Ukraine (6 December), Italy (6 December), Ecuador (6 December), Tajikistan (6 December), Dominican Republic (the) (6 December), Mexico (7 and 9 December), Trinidad and Tobago (8 December), Tajikistan (12 December), and Nicaragua (13 December).

Other official events deserved particular recognition due to the strong impact in their respective countries:

- WSD celebrations in Djibouti. The one-week event represented the largest event on soils ever organized in the country, engaging representatives from government, research, members of the FAO national and regional offices, students, farmers, laboratory technicians, and NGOs, with the GSP supporting the World Soil Day celebration. The activities included training of 100 laboratory technicians on health and safety and quality control, training of over 30 farmers with field exercises on sustainable soil management practices (salt accumulation, carbon, and nutrient loss) and a lecture on soil physical parameters given to 20 students of the Faculty of Science from the University of Djibouti. [READ MORE](#).
- WSD celebrations in Mexico. Thanks to the university programme for interdisciplinary soil studies (PUEIS) of the National Autonomous University of Mexico (UNAM), a special celebration was held online on 7 December 2022 bringing together a group of farmers representing some of the leading Soil Doctors in the country. They enthusiastically joined the discussion and shared their experiences with the programme, challenges encountered, lessons learned, and their expectations for the coming months. [READ MORE](#).
- WSD celebration in Georgia. The Ministry of Environmental Protection and Agriculture of Georgia (MEPA) organized a day-long event to mark World Soil Day. It was attended by the heads of the ministry system as well as representatives of 13 agrarian organizations from all over the country, bringing the total number of participants to 60. Successful young cadres were awarded by the Academician Tengiz Urushadze's award certificate of honour. [READ MORE](#).
- WSD celebration at UN Headquarters. The Permanent Missions to the United Nations of the Kingdom of Thailand and the Republic of Namibia, together with FAO and the United Nations Convention to Combat Desertification successfully organized a hybrid celebration of World Soil Day in New York in the United States of America. The event featured a variety of voices including Member States, UN agencies, scientists, and soil heroes, such as this year's Laureates of the Glinka World Soil Prize and the King Bhumibol World Soil Day Award. [READ MORE](#).

7.2 WORLDWIDE EVENTS

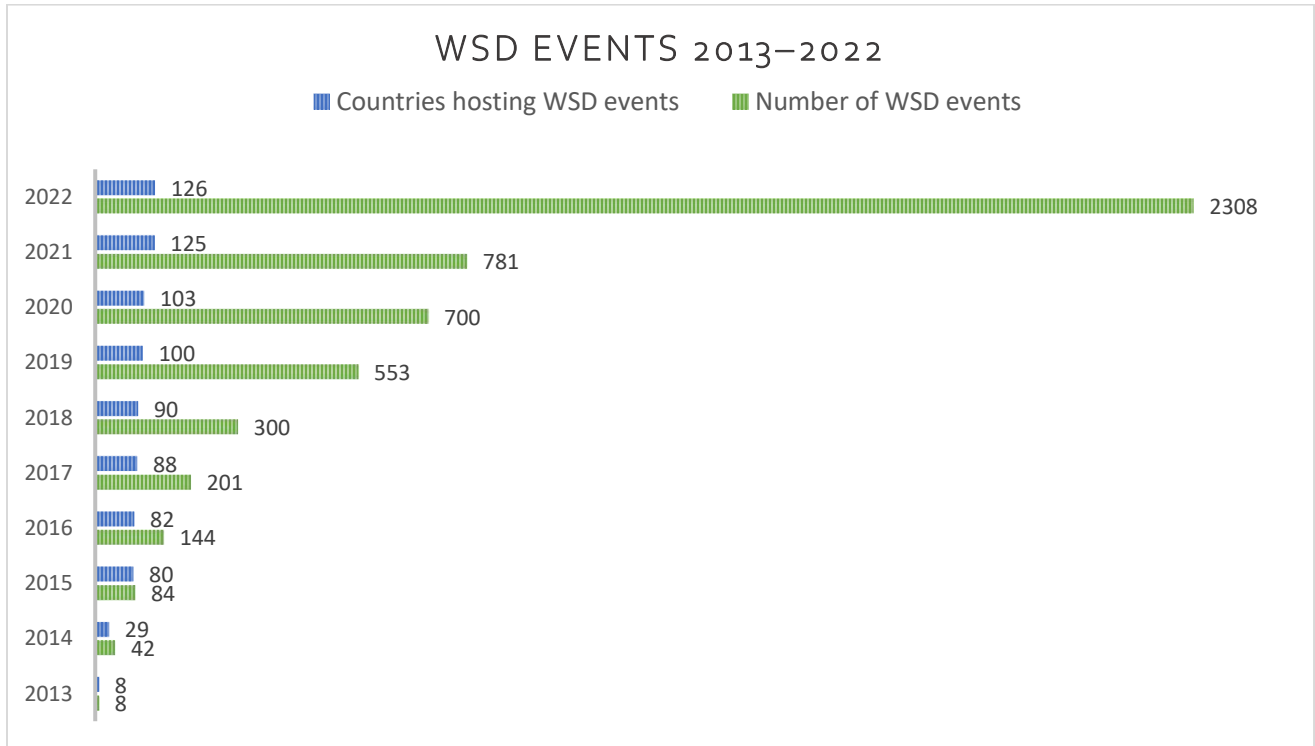
Photo 6: The world soil day event map. An open registration where events, large or small, across the globe was encouraged to register.



Source: FAO. 2022. World Soil Day, 5 December. In: FAO. Rome. Cited March 2023. www.fao.org/world-soil-day/worldwide-events/
The boundaries and names shown and the designations used on these map(s) do not imply the expression of any opinion concerning the delimitation of its frontiers and boundaries. Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

In addition to the official WSD events, 2 308 worldwide events were registered on the World Soil Day map. This represents an astonishing increase of 1 527 events in 2021 (Figure 1). The events on the map include a mix of public and private initiatives, such as municipalities, the private sector, media, academia, and local community gatherings.

Figure 1: Number of events and participating countries for the period 2013–2022. 2022 saw a substantial increase in the number of registered events



WSD was celebrated in all regions, also thanks to the support of the GSP Regional Soil Partnerships. By far, most events were registered in Asia (1 915 events), mainly due to a tremendous mobilization in Thailand, followed by Europe and Eurasia (189 events), Latin America and the Caribbean (LAC) (122 events), Africa (27 events), North America (16 events), and the Pacific (2 events) as seen in *Table 4*.

Table 4: Number of registered events per region

<i>Country</i>	<i>Number events</i>
<i>Pacific</i>	2
<i>North America</i>	16
<i>Africa</i>	27
<i>NENA</i>	37
<i>LAC</i>	122
<i>Europe and Eurasia</i>	189
<i>Asia</i>	1915

EVENT PHOTO GALLERY

Through a global call for WSD pictures across multiple channels (newsletters, direct mailing to WSD organizers, social media and more), over 2 000 photos were received. The best photos illustrating the wide range of activities organized and diversity of actors celebrating soils on 5 December were compiled into a Flickr photo gallery. At the time of writing of the report, the gallery has had over 3 000 views.

[VIEW THE ALBUM](#)

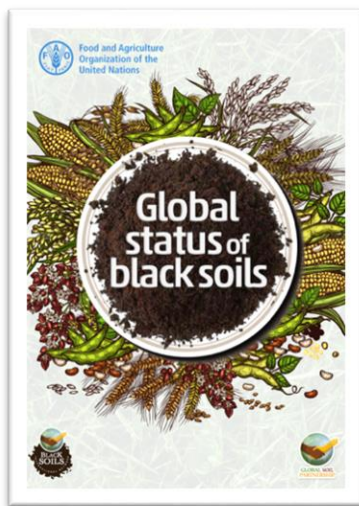
Photo 7: Screenshots of some of the pictures received from worldwide WSD organizers



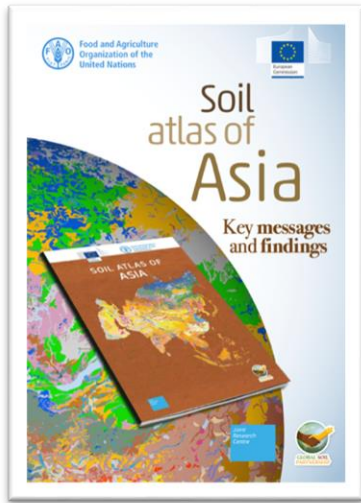
Source: WSD photos stored on Flickr. 2023. World Soil Day 2022: 5 December 2022 | Worldwide events. In: Flickr. San Francisco, USA. Cited March 2023. www.flickr.com/photos/faoftheun/albums/72177720304438443/

8. PUBLICATIONS

Two key publications were presented during the world soil day event: The *Global status of black soils* and the key messages and findings of the *Soil atlas of Asia*.



Yuxin Tong, from the GSP Secretariat, presented the [*Global status of black soils*](#) and explained why this black treasure is at risk. This crucial publication presents the state of knowledge on black soils and the threats they face. Black soils are known as the world's food basket and are paramount for climate change mitigation and adaptation (containing 10 percent of the global soil organic carbon sequestration potential). Due to unsustainable soil management practices, most black soils suffer from moderate to severe degradation processes and are now under threat.



Taek-Ryoun Kwon, Director General of the Rural Development Administration of the Republic of Korea, and Mr. Arwyn Jones, from the Joint Research Centre of the European Commission, presented [the key messages and findings of the Soil atlas of Asia](#), a step towards the discovery of Asian soils. The atlas is the result of a collaborative effort of FAO's GSP, the Joint Research Centre (EC/JRC) of the European Commission, and the Rural Development Administration (RDA) of the Republic of Korea). The atlas is a timely response to stakeholders' need to raise awareness of soil health, with more than 100 soil experts from 45 countries contributing to the publication, portraying the region's rich diversity of soils.

The Global Soil Partnership at the Parties of the Convention on Biological Diversity (COP15)

World Soil Day 2022 also coincided with the Conference of the Parties of the Convention on Biological Diversity (COP15), where FAO's GSP, the International Network on Soil Biodiversity, and partners contributed to making soil biodiversity prominent in the negotiations and as a potential contributor to the post-2020 Global Biodiversity Framework. Accordingly, parties endorsed the 2020–2030 [Plan of Action](#) of the International Initiative for the Conservation and Sustainable Use of Soil Biodiversity. COP15 invited FAO and the GSP to facilitate its implementation with partners. The Global Soil Biodiversity Observatory was also [launched](#) during a ministerial dialogue. [READ MORE.](#)



9. MEDIA COVERAGE

The celebration of World Soil Day 2022, *Soils, where food begins*, received massive media attention throughout the week, with 728 articles reaching an incredible 3 863 321 033 people!

Across the globe, magazines and news outlets featured stories and informational pieces covering the importance of soil. Dozens of outlets around the world ran explainers on why we celebrate World Soil Day, including India's Hindustan Times and The Hindu, Uganda's Monitor, the United

Kingdom of United Kingdom of Great Britain and Northern Ireland and Northern Island's The Scotsman, Seychelles' The Nation, Italy's Corriere della Sera and Sky News, and the United Arab Emirates' WAM News. Excerpts from a selection of articles can be found in the overview below.

Forbes magazine ran the headline: *The World Soil Imperative: What If They Planted A Garden And Nothing Grew?* While the article *Saving our soils by all earthly ways possible* was picked up by UN.org. The Bangkok Post reported that two Universidad Nacional Autónoma de Mexico scientists received the King Bhumibol World Soil Day Award 2022.

UN CHRONICLE: *Soils, Where Food Begins*

Ronald Vargas, Secretary of the Global Soil Partnership, writes that the World Soil Day celebration aims to raise awareness of the importance of healthy soils and engage citizens worldwide. He continues by saying that advocacy for soils is more important than ever as we are now facing a food and fertilizer crisis due to the COVID-19 recovery, ongoing conflicts, and climate change.



World Soil Day 2022: FAO publishes first global report on black soils.

The Food and Agriculture Organization of the United Nations (FAO) today marked [World Soil Day 2022](#) with the launch of its first global report on [black soils](#), which are at greater risk than ever due to the climate crisis, biodiversity loss and land use change.



Among the things that received special attention from the media outlets was the publication of the Global status of black soils Report. China's [Xinhua](#), Thailand's [The Bangkok Post](#), Argentina's [EFE/Infobae](#), Mexico's [La Jornada](#), Italy's [La Repubblica](#), the Russian Federation's [TASS/Rambler](#), Colombia's [El Espectador](#), Spain's [Public Radio](#), Pakistan's [Urdu Point](#), the Holy See's [Vatican News](#)

and [Osservatore Romano](#), and Kenya's [Daily Nation](#) all paid attention to the report, warning that, according to FAO, one-third of the earth's soils are degraded. It was also widely published in the Caribbean by Guyana's [Guyana Chronicle](#), [Guyana Times Newspaper](#) and [Village Voice News](#), Antigua's [Antigua newsroom](#), St. Kitts' [SKNIS](#) and Barbados' [Caribbean News Service](#).

[Read the full list of articles](#) | [Search the article by country](#)

9.1 HOT OFF THE PRESS



The World Soil Imperative: What If They Planted A Garden And Nothing Grew?

“People who work the land will tell you winter is a fairly peaceful time on a farm. The summer harvest is in and preparations for new plantings are relatively quiet until the new year...”

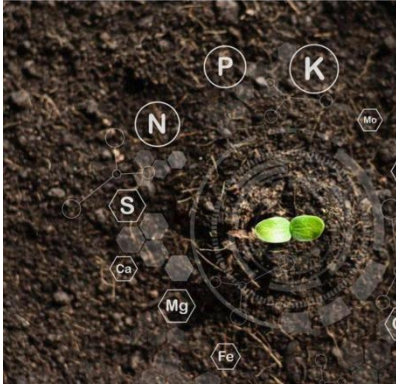
Forbes, 6 December 2022



中国为世界黑土地保护贡献方案

“新华社哈尔滨12月5日电（记者王建、孙晓宇、黄腾）12月5日是第9个世界土壤日，今年主题为“土壤：食物之源”。正值寒冬，中国东北黑土地进入冬闲时节，为明年的粮食生产积蓄动能。”

腾讯网, 5 December 2022



世界土壤日 联合国粮农组织发布宣传片

土壤是现存物种最丰富的栖息地之一。联合国粮农组织指出，土壤中蕴含着全球四分之一的生物多样性。在一平方米的健康土壤下，你可以发现多达1.5公斤的生物体，其中包括蛔虫、蚯蚓、跳虫、螨虫和昆虫幼虫；还有许多微生物，包括细菌、原生菌和真菌。”

搜狐新闻, 5 December 2022

La alimentación mundial, en riesgo por la caída de los nutrientes del suelo

Rome, 5 Dec. The "drastic drop" in the level of nutrients present in "black soils", a type of dark soil rich in organic content on which hundreds of millions of people depend, compromises the feeding of the world's population, FAO revealed on Monday.

Infobae, 5 December 2022

World Soil Day 2022: 'Where the food begins- History, significance and theme of this day

Food for people and animals is produced by plants growing on soil, which is a world made up of creatures, minerals, and organic materials. Yet too much soil is lost every minute. Read to find out the background of this day.

ZEENEWS, 5 December 2022. Food for people and animals is produced by plants growing on soil, which is a world made up of creatures, minerals, and organic materials. Yet too much soil is lost every minute. Read to find out the background of this day.

ZEENEWS, 5 December 2022

Why Do We Celebrate World Soil Day? Theme, History and Significance

World Soil Day 2022: A mixture of various minerals, organic compounds, and living organisms, soil forms the foundation of life on Earth. December 5 is celebrated annually as World Soil Day to highlight the importance of healthy soil and promote sustainable management of soil resources.

NEWS18, 5 December 2022

Сельхозпроизводство должно вырасти на 60% для обеспечения спроса в 2050 году

РИМ, 5 декабря. /ТАСС/. Сельскохозяйственное производство должно увеличиться на 60%, чтобы удовлетворить мировой спрос на продовольствие в 2050 году. С таким предупреждением в понедельник выступила Продовольственная и сельскохозяйственная организация Объединенных Наций (ФАО). Об этом сообщает "Рамблер, 5 December 2022

Il rapporto globale dei suoli neri, preziosi panieri che forniscono cibo a milioni di persone, fertili e ricchi di nutrienti come sono

Giornata Mondiale del Suolo 2022: la FAO pubblica il primo dossier con il quale chiede una gestione sostenibile, tra le numerose e crescenti minacce. Il rapporto globale dei "suoli neri", preziosi panieri che forniscono cibo a milioni di persone, fertili e ricchi di nutrienti come sono.

La Repubblica, 5 December 2022

5 Desember Menjadi Peringatan Hari Tanah Sedunia

KILAS KLATEN – Bagi sebagian orang mungkin tidak cukup tahu bahwa setiap tahun terdapat sebuah yang jatuh pada tanggal 5 Desember yaitu peringatan Hari Tanah Sedunia atau World Soil Day (WSD).

Klaten, 5 December, 2022

Poor soil management will erode food security

Healthy soils are essential for our survival. They support healthy plant growth to enhance both our nutrition and water percolation to maintain groundwater levels. Soils help to regulate the planet's climate by storing carbon and are the second largest carbon sink after the oceans. They help maintain a landscape that is more resilient to the impacts of droughts and floods. As soil is the basis of food systems, it is no surprise that soil health is critical for healthy food production.

The Hindu, 5 December 2022

Jardín Botánico de Bogotá lanza su banco de semillas agroecológicas

En medio de la celebración del Día mundial del suelo, el Jardín Botánico de Bogotá lanza su banco de semillas agroecológicas, con el propósito de contribuir a la conservación de diferentes especies de uso alimenticio con alto valor nutricional, contribuir al intercambio de saberes y aportar a la seguridad alimentaria.

Semana.com, 5 December 2022

นายกฯ ขวนทุกภาคส่วน ร่วมกิจกรรม “วันดินโลก” เทิดพระเกียรติ ในหลวง ร.9

นายกรัฐมนตรีเชิญชวนประชาชน ร่วมกิจกรรม “วันดินโลก” จ.ตาก เทิดพระเกียรติ ในหลวง ร.9 สร้างความตระหนักรู้ ความสำคัญของดิน ทรัพยากรธรรมชาติที่สำคัญของทุกชีวิตบนโลก

Thai Rath, 5 December, 2022

Five-Dimensional Straw Utilization Model and Its Impact on Carbon Emission Reduction in China

“Enormous quantities of straw in China are burnt in open fields or discarded randomly, leading to a serious waste of biomass resources and environmental pollution. To accelerate sustainable development, straw resources must be used efficiently and reduce carbon emissions...”

MDPI, 13 December, 2022

World Soil Day: Industrial farming is threatening humanity’s ability to feed itself.

Imagine waking up to the news that scientists had discovered a new world, teeming with life. A world barely explored, where the number of creatures could take decades to name and identify.

The Scotsman, 5 December 2022

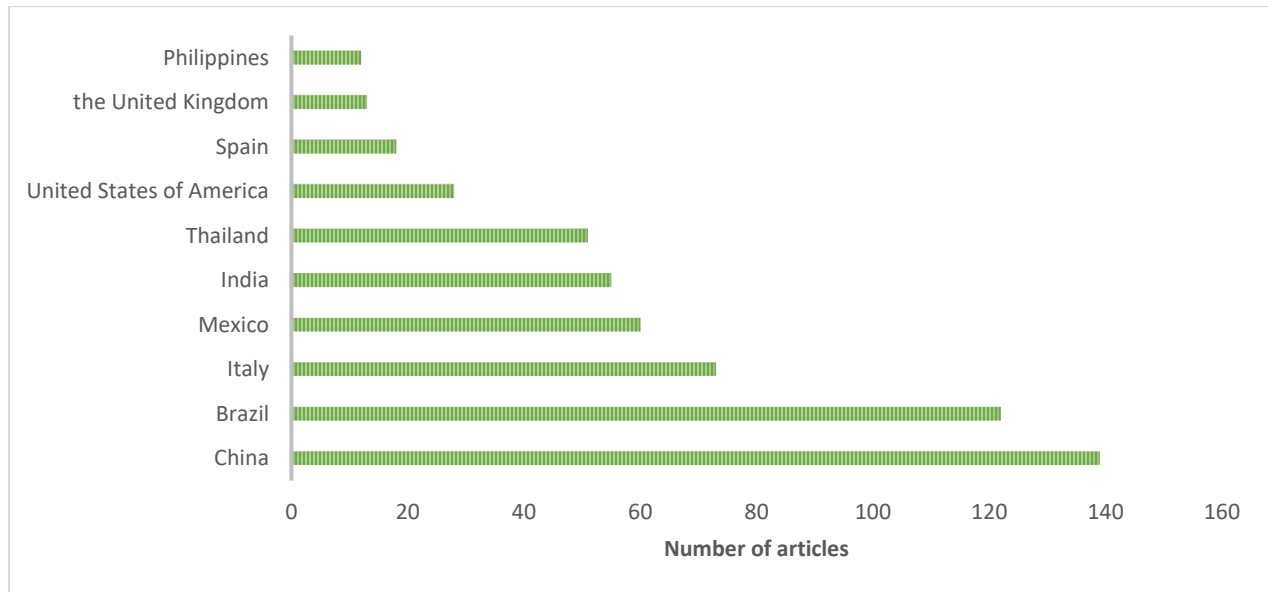
Enhance soil conservation

On Monday (December 5), Kenya joined other countries in commemorating the World Soil Day. This is a special day set aside every year to create awareness on the importance of having healthy soils.

Daily Nation, 9 December 2022

As shown in Figure 2, China was the country with the most articles, hitting a total of 139, closely followed by Brazil with 122. For a full overview, please consult the [compiled list](#), organized by country, reach, article name, source and date, or check out Annex 1.

Figure 2: Top ten countries for number of articles registered by country



10. SOCIAL MEDIA ENGAGEMENT AND DIGITAL COVERAGE

Between 30 November and 16 December 2022, FAO published over 400 multilingual posts on social media and was mentioned 10 300 times in related posts, potentially reaching 145 million people. All FAO tweets are available [here](#). The hashtag #WorldSoilDay peaked on 5 December.

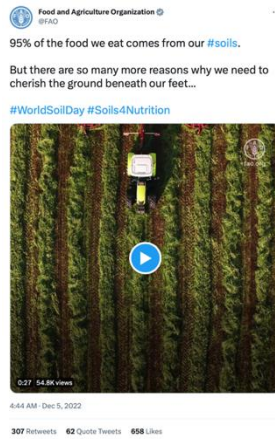
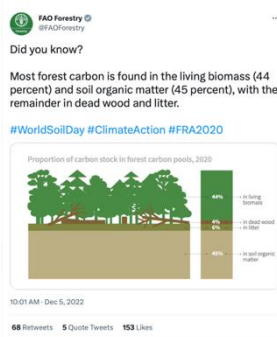
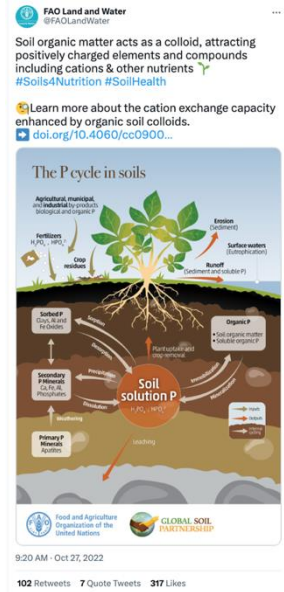
Campaign material and content on the importance of soil for our security and future were made available and shared in all official languages. A TRELLO board dedicated to the WSD content was made available to partners, colleagues, and other interested parties through the FAO WSD website. During the official ceremony held at FAO Headquarters, the GSP tweeted live from the Land and Water Division's account.

10.1 WORLD SOIL DAY IN SOCIAL MEDIA

A whopping 488 million users discussed, debated, and advocated the importance of healthy soils for a healthy life on social media platforms using the official hashtag of the campaign

#WorldSoilDay and #Soils4Nutrition, with 48 000 posts between 4 and 6 December. That is a considerable increase compared to last year's reach of 330 million people. In addition, short social media videos were produced by two FAO Goodwill Ambassadors: Cooker Pacheco and Diarmuid Gavin.

A selection of high engagement WSD-related tweets from official UN channels:



FAO Land and Water
@FAOLandWater

Soil health & fertility have a direct influence on nutrient content of food crops 🌱

Join the **#WorldSoilDay** celebration and learn about **#Soils4Nutrition**

Register here: fao.zoom.us/webinar/regist..
5 Dec. 22 at 12:20

Soil fertility is...

Atmosphere: Gases, carbon dioxide and other gases

Chemical properties: the ability to sustain plant growth by providing essential plant nutrients and favorable chemical, physical, and biological characteristics

Lithosphere: Minerals in rocks, clays, and sediments

Soil air

Soil organic matter and biomass

Soil mineral particles

Soil water

Biological properties

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

Ronald Vargas FAO Global Soil Partnership

9:56 PM · Dec 4, 2022

265 Retweets 30 Quote Tweets 647 Likes

FAO Land and Water
@FAOLandWater

#DYK that 18 chemical elements are essential for plant growth and that 15 of these are supplied by soils?

Learn more about **#SoilNutrition** during the **#WorldSoilDay** official celebration 🌱 tiny.cc/21y0vz

📅 5 December 2022
🕒 12:30 - 13:40 CET
📺 Online (Zoom)

Soils can form, store and recycle the nutrients we need to survive.

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

Ronald Vargas FAO Global Soil Partnership

7:03 AM · Nov 28, 2022

486 Retweets 922 Quote Tweets 1,195 Likes

FAO en español
@FAOenEspañol

El suelo es el origen de nuestros alimentos.

Los suelos degradados deficientes en nutrientes producen plantas deficientes en nutrientes...

Necesitamos suelos sanos para producir alimentos nutritivos!

#Soils4Nutrition

12:09 PM · Dec 1, 2022

69 Retweets 5 Quote Tweets 126 Likes

FAO Land and Water
@FAOLandWater

📍 What do plants really need to grow? 🌱 Find out below 🌱

#WorldSoilDay #Soils4Nutrition

Download the poster 📄 fao.org/3/ca7394en/ca7...

More on the Global Soil Doctors Programme 🌱 bit.ly/3qDPxee

soil nutrients

Organización de las Naciones Unidas para la Alimentación y la Agricultura

ALIANZA MUNDIAL POR EL SUELO

Ronald Vargas FAO Global Soil Partnership

10:22 AM · Nov 20, 2022

197 Retweets 25 Quote Tweets 477 Likes

Food and Agriculture Organization
@FAO

To meet global food demand in 2050, agricultural production will have to increase by 60%.

🌱 Sustainable **#soil** management can help make this a reality 🌱

#Soils4Nutrition #COP27

4:00 AM · Nov 10, 2022

145 Retweets 19 Quote Tweets 332 Likes

FAO en español
@FAOenEspañol

Los suelos son el origen de nuestros alimentos.

¿Sabías que la fertilidad y la salud de los suelos tienen una influencia directa sobre el contenido de nutrientes de los cultivos?

#Soils4Nutrition

La fertilidad del suelo es...

Atmósfera: Gases, dióxido de carbono y otros gases

Aire del suelo

Propiedades químicas: Capacidad de mantener el crecimiento de las plantas proporcionando nutrientes esenciales y características químicas, físicas y biológicas favorables

Propiedades físicas: Partículas minerales del suelo

Propiedades biológicas: Agua del suelo

Biosfera: Plantas, animales, microbios y otros organismos

Día Mundial del Suelo 2022

Organización de las Naciones Unidas para la Alimentación y la Agricultura

ALIANZA MUNDIAL POR EL SUELO

12:16 PM · Nov 10, 2022

131 Retweets 7 Quote Tweets 261 Likes

Food and Agriculture Organization
@FAO

🌱 Did you know?

On Earth, there are 92 naturally occurring chemical elements, 18 are essential to plants and 15 of them are supplied by soils!

Soil health & fertility have a direct influence on the nutrient content of food crops 🌱

#Soils4Nutrition

On earth

there are 92 naturally occurring chemical elements

18 are essential to plants and 15 of them are supplied by soils

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

2:01 AM · Oct 14, 2022

230 Retweets 140 Quote Tweets 560 Likes

Food and Agriculture Organization
@FAO

6 actions that can be taken to prevent and reverse nutrient imbalance in soils 🌱

#Soils4Nutrition

6 actions to prevent and reverse nutrient imbalances

1. Soil nutrient management & mapping

2. Crop diversification & rotation

3. Adapted use of fertilizers

4. Enhance biological soil fertility

5. Adapt long term soil chemical and management

6. Adapted use of micronutrient

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

6:09 PM · Nov 13, 2022

149 Retweets 17 Quote Tweets 402 Likes

Selection of GSP posts on Facebook

The Global Soil Partnership
5. desember 2022 · 🌐

Today is **WORLD SOIL DAY!!!** ❤️❤️❤️ Don't miss the launch of the first Global Status on Black Soils during the official #WSD22 celebration 🎉 Register now! 📄 <http://tiny.cc/21y0vz>

📅 5 December 2022
🕒 12:20- 13:45 CET
📺 Online (Zoom)

Report launch during the World Soil Day celebration

5 DECEMBER

Global status of black soils

#Soils4Nutrition

SOILS: WHERE FOOD BEGINS

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

👍❤️ 168 6 kommentarer 49 delinger

The Global Soil Partnership
4. desember 2022 · 🌐

TOMORROW IS WORLD SOIL DAY! ❤️ Join us in this worldwide celebration of soils! 🌐 Register now to the official #WorldSoilDay event 📄 <http://tiny.cc/21y0vz> and don't miss:

- 📺 high level opening session
- 🎭 artistic performance
- 🏆 soil prize winners
- 👤 soil... Se mer

Join the event

World Soil Day 2022

SOILS: WHERE FOOD BEGINS

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

👍❤️ 248 1 kommentar 97 delinger

The Global Soil Partnership
7. desember 2022 · 🌐

#DYK that Black soils are essential for global food security? ❤️ They compose 17% of the worldwide croplands! 🌍🌍🌍

📄 Learn more on the recently launched "Global status of black soils" report 📄 <https://doi.org/10.4060/cc3124en>

Black soils for food security

Orchards

Wheat

Potatoes

Soybeans

Cattle raising

Grain and oilseed crops

Rice and corn

Forage and fiber production

Constitute an important source of food for the world, and are key for the global economy

Recognized as inherently productive and fertile soils

Represent 17 percent of the worldwide croplands

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

👍❤️ 207 4 kommentarer 90 delinger

The Global Soil Partnership
3. desember 2022 · 🌐

Soils are the basis of food production! #SoilHealth is essential for producing nutritive and abundant crops 🌱🌱🌱

Join us in the celebration of soils during the #WorldSoilDay official ceremony! 📄 Register now: <http://tiny.cc/21y0vz>

📅 5 December 2022
🕒 12... Se mer

SOILS: WHERE FOOD BEGINS

World Soil Day 2022

Healthy soils mean healthy, safe and nutritious food.

Food and Agriculture Organization of the United Nations

GLOBAL SOIL PARTNERSHIP

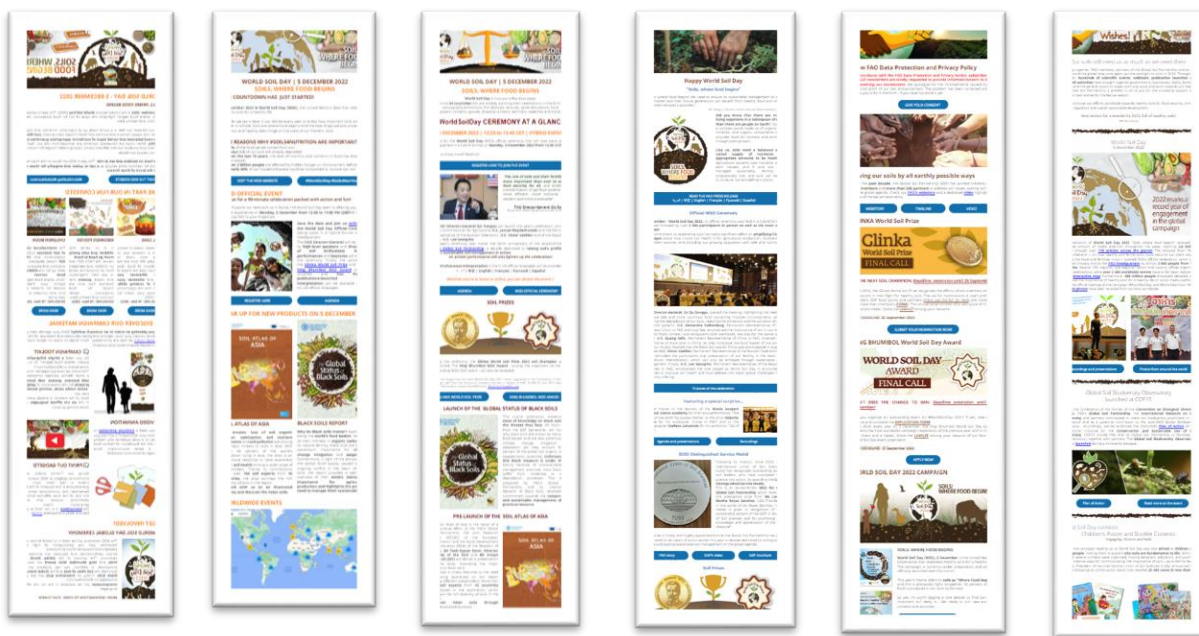
👍❤️ 185 1 kommentar 64 delinger

10.2 WEBSITE METRICS AND NEWSLETTERS

The Food and Agriculture Organization of the United Nations' World Soil Day (WSD) website, the UN observance website and FAO articles featuring soils on those days totalized over 200 000 page views. The World Soil Day page was among the FAO's most-viewed FAO pages during that week.

The [UN Observances World Soil Day](#) webpage received 60 021 page views between 1 and 10 December, a major increase from 39 276 in 2021. Most visited was the English pages (41 114 views) followed by Spanish (15 148 views). The website is available in all UN languages.

A webstory was featured on the main FAO homepage. Finally, four special announcements and two newsletters were prepared and shared to the GSP mailing list to launch the campaign and inform all soil lovers on how to participate in the multiple contests, join the campaign, vote for the online public contests, and keep the audience updated on the latest development. They are key tools that strongly contribute to the global adoption and dissemination of the campaign.



[Announcement No. 42 | September 2022](#)

[Announcement No. 43 | November 2022](#)

[Announcement No. 44 | December 2022](#)

[Announcement No. 45 | December 2022](#)

[Newsletter No. 36 | September 2022](#)

[Newsletter No. 37 | September 2022](#)

ANNEX I. MEDIA COVERAGE: LIST OF ARTICLES

[World Soil Day 2022: FAO publishes first global report on black soils](#) | Antigua Newsroom | 5 December | Antigua and Barbuda

[La alimentación mundial, en riesgo por la caída de los nutrientes del suelo](#) | Infobae | 5 December | Argentina

[Pesticidas, erosión y microplásticos, entre los enemigos del suelo](#) | Infobae | 5 December | Argentina

[El suelo que pisamos y nos da de comer](#) | Infobae | 5 December | Argentina

[Martes 6 de diciembre de 2022 \(04.00 GMT\)](#) | Infobae | 6 December | Argentina

[Alimentación mundial, en riesgo por caída de nutrientes del suelo](#) | Diario de Cuyo | 7 December | Argentina

[Día Mundial del Suelo: la base de nuestra alimentación - Primera Edición](#) | Primera Edición | 5 December | Argentina

[Día Mundial del Suelo: por qué se celebra el 5 de diciembre](#) | Radio Sudamericana | 5 December | Argentina

[Hoy se celebra el Día Mundial del Suelo](#) | Infocampo.com.ar | 5 December | Argentina

[World Soil Day 2022: FAO publishes first global report on black soils](#) | Mirage News | 5 December | Australia

[Digging deep into Suriname's pineapple belt transformation](#) | Mirage News | 5 December | Australia

[Nuclear Science Helps Enhance Soil Fertility for More Nutritious Food](#) | Mirage News | 5 December | Australia

[World Soil Day 2022: FAO publishes first global report on black soils](#) | The National Tribune | 5 December | Australia

[Content from this publisher is not available in your country](#) | Farm Weekly (Licensed by Copyright Agency) | 13 December | Australia

[Nuclear Science Helps Enhance Soil Fertility for More Nutritious Food](#) | International Atomic Energy Agency | 5 December | Austria

[Digging deep into Suriname's pineapple belt transformation](#) | UNIDO | *5 December* / Austria

[Use of organic fertiliser stressed](#) | Daily Sun | *5 December* / Bangladesh

[78pc cropland in BD lacks essential organic matters](#) | The Financial Express | *5 December* / Bangladesh

[Govt cannot be ousted in unconstitutional way: Minister](#) | The Daily Observer | *5 December* / Bangladesh

['Govt cannot be ousted in unconstitutional way'](#) | The New Nation | *6 December* / Bangladesh

[Life begins and ends from soil](#) | The New Nation | *7 December* / Bangladesh

['Improving soil health crucial to increase crop production'](#) | The Asian Age | *5 December* / Bangladesh

[Improving soil health crucial to increase crop production: experts](#) | Bangladesh Sangbad Sangstha | *5 December* / Bangladesh

[Govt cannot be ousted in unconstitutional way: Razzaque](#) | Bangladesh Sangbad Sangstha | *5 December* / Bangladesh

[Pod sloganom "Zemljišta – tamo gdje hrana počinje" u FBiH se obilježava Svjetski dan tla](#) | Fokus.ba | *5 December* / Bosnia and Herzegovina

[U Federaciji BiH danas se obilježava Svjetski dan tla](#) | Start Online | *5 December* / Bosnia and Herzegovina

[U Federaciji BiH danas se obilježava Svjetski dan tla](#) | FENA | *5 December* / Bosnia and Herzegovina

[Danas se u Federaciji BiH obilježava Svjetski dan tla](#) | AS info - Informativni portal | *5 December* / Bosnia and Herzegovina

[U Federaciji BiH danas se obilježava Svjetski dan tla](#) | RTV BPK | *5 December* / Bosnia and Herzegovina

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Exame | *5 December* / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Agência Brasil (EBC) | *5 December* / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | jc.ne10.uol.com | *5 December* / Brazil

[Brazil: 32% of country's soils have natural potential for agriculture](#) | Agência Brasil (EBC) | 11 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | A Tarde | 5 December / Brazil

[El 32% del suelo brasileño tiene potencial natural para la agricultura](#) | Agência Brasil (EBC) | 11 December / Brazil

[ILPF contribui para descarbonização e saúde do solo](#) | Notícias Agrícolas | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | BOL Notícias - Uol | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Notícias Agrícolas | 5 December / Brazil

[Dia Mundial do Solo: 6 dicas para cuidar bem da lavoura](#) | Canal Rural | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Campo Grande News | 6 December / Brazil

[No Brasil, 32% dos solos do país têm potencial natural para a agricultura](#) | Canal Rural | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Jornal de Brasília | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | ISTOÉ Dinheiro | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Diário de Pernambuco | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | O Povo | 5 December / Brazil

[Artigo: Solo saudável produz mais alimentos e traz benefícios ao meio ambiente](#) | Embrapa | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Época Negócios | 5 December / Brazil

[Embrapa comemora Dia Mundial do Solo](#) | Embrapa | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Folha PE | 5 December / Brazil

[Artigo: Solo saudável produz alimentos e traz benefícios ao meio ambiente](#) | Embrapa | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | TNH1 | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Mix Vale | 5 December / Brazil

[dia do solo.](#) | Gazeta de Alagoas - Gazetaweb.com | 6 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | MSN Brasil | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Midiamax | 6 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | GazetaWeb | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Política Livre | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | Paraíba Online | 5 December / Brazil

[IBGE: 32% dos solos do país têm potencial natural para a agricultura](#) | ABCdoABC | 5 December / Brazil

[Potencial agrícola do PR tem a melhor classificação do país de acordo com estudo do IBGE](#) | Agoranoticiasbrasil | 7 December / Brazil

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