How and why should I apply fertilizer?







How and why should I apply fertilizer?

Words Explained

Fertilizer: Something added to the soil to help the plants grow

Harvest: Gathering the crops from the field

Leaching: Washing away of nutrients from the soil

Microorganisms: Very small soil insects

Mineral fertilizer: NPK blends you buy at the agrovet or shop

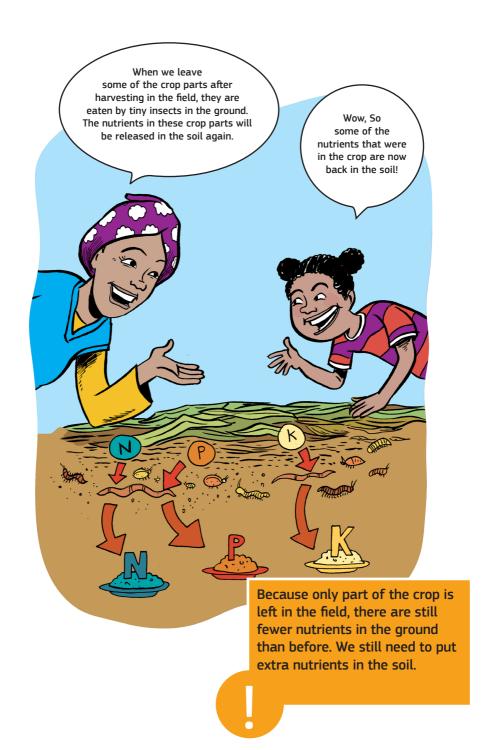
Nutrients: Tiny particles in the soil that a crop needs as food

Organic fertilizer: Natural materials that contain nutrients like crop parts, compost or manure

Top-dressing: Second application of fertilizer 6 weeks after planting









Organic fertilizer

- · feeds the soil insects
- improves soil structure and quality
 - keeps soil healthy
 - provides nutrients slowly in uncertain amounts

What are the differences between that brown pile and that bag?

That pile can be compost or manure, the bag is mineral fertilizer you buy at the agrovet or shop. They both have different characteristics.

Mineral fertilizer

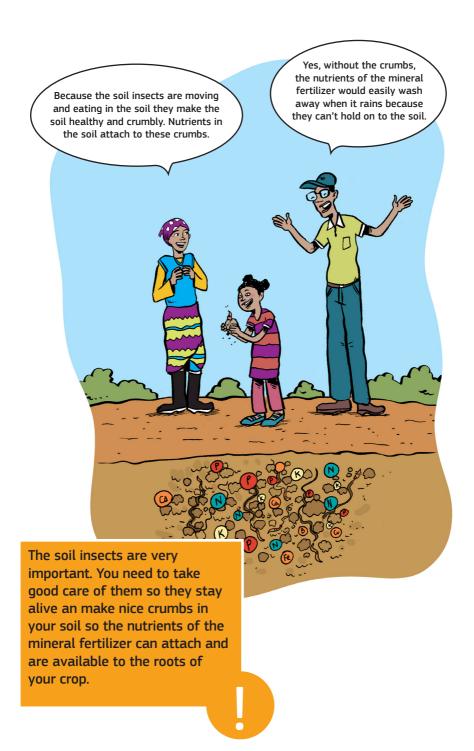
- provides needed nutrients
- quickly available to the crop
- provides boost when needed
- provides nutrients in certain amounts



We apply organic fertilizer to keep our soils healthy and mineral fertilizer to be sure our crops are well fed.









Eating the organic fertilizer and releasing the nutrients takes time. So, apply compost and manure a month before planting.

At planting I will now add the mineral fertilizer so these extra nutrients are quickly available to the crop.



When you apply organic fertilizer a month before you plant, you make sure the nutrients are all released from the materials so the seedling can access them.



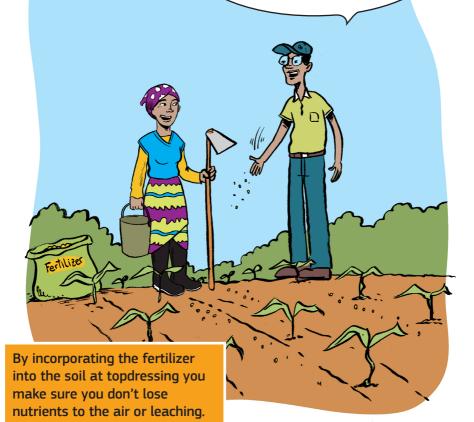
When you put the fertilizer on top of the soil, many of the nutrients will disappear into the air or wash away with the rains. That's why you put the fertilizer in the planting hole and cover it with soil.







6 weeks after planting you need to top-dress with fertilizer. This means you can spread it around your field, but make sure you mix it into your soil. This is best done during weeding.



Colophon

Want to know more?

info@soilcaresfoundation.com

Editor

Lotte-Marie Brouwer

Writing and preparation

Lotte-Marie Brouwer, Katharine Macmahon, Anja Weber

Design

Robbert Kamphuis

Illustrations

Angel Mosquito

 $\ \ \, \ \ \,$ SoilCares Foundation (Feb 2016) All rights reserved.

Last edited: December 2018

This booklet is part of the Fertilizer Series of SoilCares Foundation. It explains how and why you should apply fertilizer and explains the differences between organic and mineral fertilizers.

Through these training booklets SoilCares Foundation wants to show you how to take care of your soil – so the soil can take care of you.

Other SoilCares Foundation booklets:

- 1. Why should I test my soil?
- 2. How do I collect a good soil sample?
- 3. What do the recommendations of the soil test report mean?
- 4. How and why should I apply fertilizer?
- 5. What are the differences between mineral fertilizers?



Nieuwe Kanaal 7C, 6709 PA Wageningen, The Netherlands www.soilcaresfoundation.com



Cara House, Karen Road Nairobi, Kenya www.agrocares.com