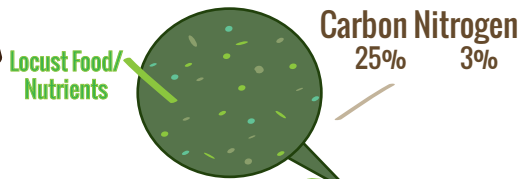


NUTRIENT CYCLING

Our research shows that locusts prefer to eat plants low in protein.

LOCUST



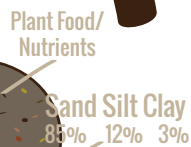
Variations in leaf protein may be caused by soil nitrogen availability



PLANTS

The soil provides nutrients available for plants.

SOIL



Thank you!

Studying and combating locusts in Senegal and around the world.



CONTACT US!

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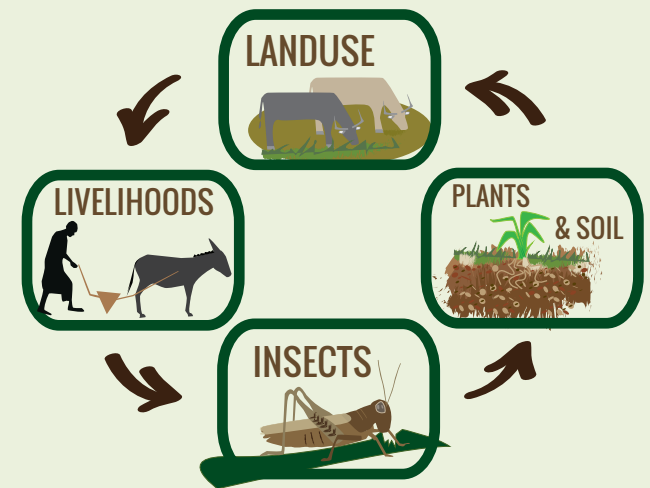


DIRECTION DE LA PROTECTION DES VEGETAUX

LIVING WITH LOCUSTS



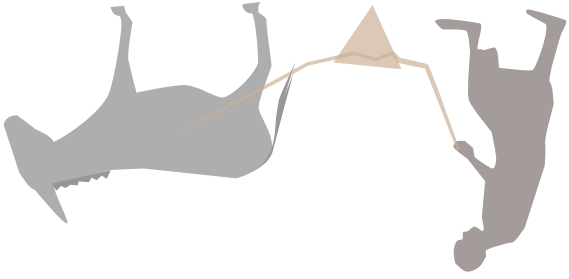
Sénégal



Our research has revealed connections among land management, plant nutrients, and locust outbreaks.

www.livingwithlocusts.com

WHAT YOU CAN DO!



INCREASE ORGANIC MATTER (living or dead plant and animal material). It's important for good soil quality, especially in sandy soils! It retains and releases nutrients and keeps water in the soil to help plants grow.

- Plant Trees
- Don't remove shrubs



(they increase soil fertility and can also attract natural enemies of locusts such as beetles)

- Plant Cover Crops
- Apply Manure
- Plow under residue after harvest



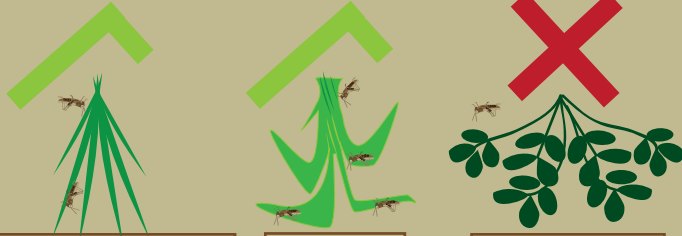
If you find abundant locusts in your fields, inform the DPV: Kaffrine region Mr. Mamadou Diallo 00221775373820

LOCUST PLANT PREFERENCE

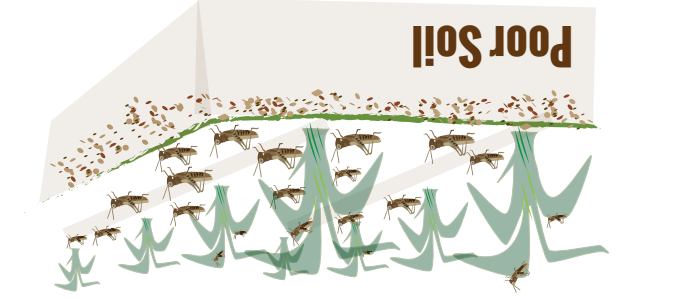
Locust always chose millet leaves over groundnut and show a slight preference for millet over other native grasses.

Why? We think it's because groundnut leaves have higher percentages of nitrogen than millet and native grasses.

NATIVE GRASSES MILLET GROUNDNUT

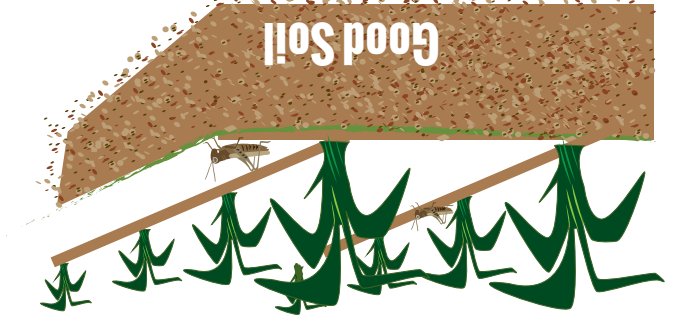


WHY WE TOOK SOIL SAMPLES



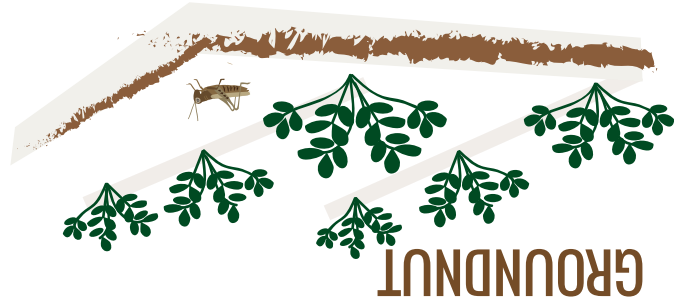
We wanted to see if soil nutrients and other properties influence the concentration of nutrients in plant leaves.

More soil nutrients could produce plants that locust don't like to eat!

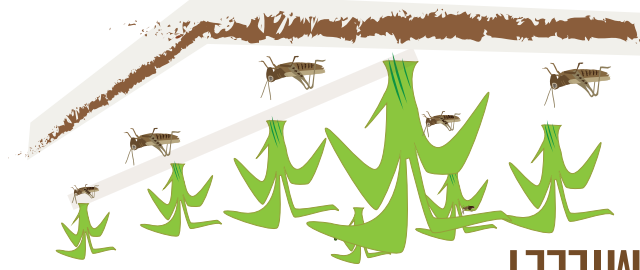


LOCUST ABUNDANCE

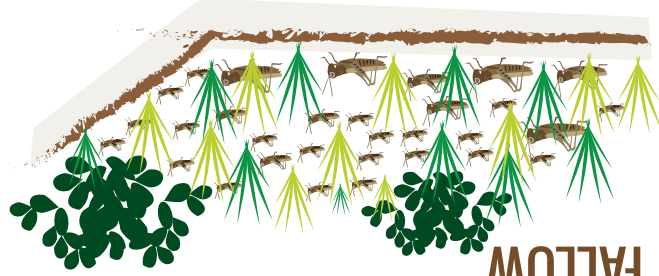
We found more locust in fallow and grazing areas than in crop fields, groundnut had the least.



MILLET



FALLOW



GRAZING

