



MOS
M I C R O B I A L O R G A N I C S O L U T I O N S

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MOS WOEMA

COOL IDEAS 73 manufactures products specifically developed for agriculture to restore natural balances in the soil. Soil microbes and organic acids and extracts are used. All products are formulated after years of research on the effect of organic matter and fertilization in the soil.

MOS Woema is an excellent soil improver that has been developed for soils with high sodium levels and that are subject to leaching.

MOS Woema consists of a variety of microorganisms that include bacillus sp bacteria, Azotobacter, Azospirillum, Pseudomonas fluorescans, Bacillus thuringiensis, Trichoderma harzianum and compost activation bacteria. It is in a nutrient medium, rich in amino acids and fulvic acids.

MOS Woema can also be used as a compost activator. It is also used to spray on plant material under trees and permanent crops so that it can compost. For compost: Mix 1 liter of **MOS Woema** with 1000 l of water and wet the compost well with it. For application under trees: Spray 10 l/ha together with at least 1000 l of water and irrigate afterwards, so that it can be washed into the plant material. For breaking down cattle and chicken manure: Spray 1 l of **MOS Woema** on 1 ton of manure together with enough water.

MOS Woema is used as an energy source for microorganisms in the soil. The amino acids are also a readily available source of energy for plants that are especially under stress due to environmental conditions. It can therefore also be used as a foliar spray.

MOS Woema is also used to improve soils that are subject to conditions due to salinization and rising sodium levels. The soil aeration can be improved and salts can also be displaced and leached out more easily. With trials conducted in 2017, it was proven that **MOS Woema** improved the soil's infiltration rate by 25% within 1 month. Along with this, it also improves the light transmission.

MOS Woema can be used with great success for nitrogen fixation together with products such as MOS Superfood and Fulvic acid. Great savings of nitrogen can be made this way.

MOS Woema can stabilize compost tea so that it is easier to spread it out in the fields without affecting the numbers of organisms and quality of tea there.

MOS Woema consists of living organisms. Keep the cans out of the sun and store at room temperature. **MOS Woema** can be applied together with other agents. MOS Woema has a shelf life of 12 months.

SOIL APPLICATIONS:

Apply 25 l/ha, which is sprayed on the soil. Irrigate after application. MOS Woema can also be applied via the irrigation system.

Two applications should be applied per season. The first as early as possible and repeat two months later.

Several trials were conducted in the Vaalharts area on soils showing symptoms of decay. Samples were taken before application and again six months after application. The ratios in the soil are used as a criterion.

	Ca%	Mg%	K%	Na%	pH(KCl)	Ohm
Before	11.6	51	4.2	32.8	8.3	60
After	45	29	6.7	13.7	5.6	260
Before	44	25	14.4	6.76	5.7	270
After	61	28	6.9	3.63	6.1	2100
Before	54	26	10.6	9.25	7.2	160
After	57	30	9.8	3.07	6.7	540

The increase in resistance (Ohm) in the soil is also a good indication that erosion is being reduced.

Trials in KZN near Inkandla

	Ca%	Mg%	K%	Na%	pH H2O	C %
2016	63	17	1.04	2.58	7.3	1.68
	220 kg/ha					
2018	59	19	3.18	1.51	6.2	2.68
	311 kg/ha					

Trial at Hermie Steyn, Swellendam area, crop: wheat

18 l/ha MOS Woema was applied at planting. The season was very dry.

Soil samples were taken where the product was applied and on the same piece of land that was treated as a control after harvest.

	pH	P	Ca%	Mg%	K%	Na %
Trial	6.41	39	66.6	9.47	7.17	2.90
Control	6.37	32	61.7	14	4.84	4.22

EBENHAEZER FARM ELGIN - Crop: Apples

Two MOS Woema applications were applied: 25 l/ha after harvest and again 25 l/ha in the spring.

Soil analyses:

		Before	After
Block 1A	K	139(dpm)	243(dpm)
		3 %	5%
	Na	49(dpm)	32(dpm)
		2%	1%
	Na/K	66%	20%
Block 1	K	138 dpm	261 dpm

	Na	4 % 42 dpm 2%	6% 31 dpm 1%
	Na/K	50 %	16%
Blok 2	K	115 dpm 4%	272 dpm 7%
	Na	38 dpm 2%	23 dpm 1%
	Na/K	50%	14%

No additional Potassium was applied beyond the normal fertilizer recommendations.

Once the ratio of sodium to potassium is more than 50%, potassium uptake is suppressed, leading to poorer fruit quality.

WILLEM VILJOEN BK WORCESTER

CROP: PLUMS

	2018	2022
Na(%)	29	2.18
Ca(%)	49	79
K(%)	5.9	3.27
Mg(%)	15	15
P (dpm)	45	83
Resistance (ohms)	80	1590

TREATMENTS 2021/22 Season

	FRUIT SET	PIT HARDENING	AFTER HARVEST
MOS PHITO	25 l/ha	15 l/ha	15 l/ha
MOS WOEMA	25 l/ha	15 l/ha	15 l/ha
MOS ENERG	3l/100-500 l water	3 l/ha	

YIELD/13 HA BLOCK

	2021	2022
Ruby Sun	10.4 t	65.4 t
African Light	50 t	62 t
Flavourfull	2.4 t	12.8 t

CROP: BUTTERNUTS

	2018	2022
Na(%)	30	5.75
Ca(%)	39	69
K(%)	3.75	4.41
Mg(%)	22.98	20.34
P (dpm)	10	27
Resistance (ohms)	100	1590

TREATMENTS

	Met plant	14 dae na plant	Blom +vrugset
MOS PHITO(l/ha)	15	10	15
MOS WOEMA(l/ha)	15	10	15
MOS ENERG	3l/100 l of water every 2-3 weeks until harvest		

Yields

2021	2022
17.75 t/ha	26.25 t/ha

**For any inquiries, contact our office.
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