

SOURCE OF POLLUTION

Lignite mining site of METE company, covering an area of 2.7km²



Kozani, Greece

TRIAL CROPS



SORGHUM



SWITCHGRASS



MISCANTHUS

TREATMENTS APPLIED

- Control
- Mycorrhizal fungi X protein hydrolysates
- Mycorrhizal fungi X fulvic/humic acids

RESULTS

The yields of the perennial grasses (switchgrass and miscanthus) were increased in the 2nd year compared to the establishment year (double for switchgrass and more than 4 times higher for miscanthus).

Not only the highest biomass yields were recorded in the plots received Mycorrhiza x protein hydrolysates but also the biomass collected from these plots had the highest Ni percentage.

Among the three under study lignocellulosic crops the highest Ni concentration was measured for switchgrass, followed by miscanthus and sorghum. The highest Ni uptake (Ni percentage X yields) was estimated for sorghum, followed by miscanthus and switchgrass.

