

SOURCE OF POLLUTION

An old metalliferous waste dump, created at end of the 19th century, were the wastes from a mining and metallurgy plant of Zn-Pb were deposited.



Silesia, Poland

TRIAL CROPS



SORGHUM



HEMP



MISCANTHUS

TREATMENTS APPLIED

- Control
- Fulvic/humic acids
- Fulvic/humic acids X mycorrhizal fungi

SUMMARY

In spite of high Zn, Pb and Cd concentrations in soil there was no sign of phytotoxicity

The highest Zn and Cd concentrations were found in sorghum, while hemp had highest Pb concentrations

In the second year lower metal concentrations were accumulated in plants

RESULTS

Sorghum was characterised by the highest biomass production followed by hemp and miscanthus

Biostimulant application increased yield of sorghum but not of other crops

Sorghum appears to be the most efficient in metal removing from the polluted soil

