

Discussion Platform: Environmental conditions for the application of coal ash in agriculture

Background:

- Bottom ash leaching results indicate an “inert” material
- Fly ash leaching results indicate a “non-hazardous” material
- “Aging” effect on pH of ash in an embankment (carbonization), and thus- on trace elements leachability from ash
- Predicting TE leaching from fly ash-soil mixture

Existing Environmental Conditions:

- Fly ash use- approved after estimating TE leaching to soil and agricultural products meet the requirements of Food and Nutrition Services
- Bottom ash use- No restriction

Discussion Platform: Environmental conditions for the application of coal ash in agriculture

Subjects for Discussion:

- TE leaching in soil-fly ash mixtures as dependent on soil type and fraction of ash
- TE uptake in plants from soil containing fly ash

Proposed Environmental Conditions Derived from Research Findings:

- Fly ash addition to soil- subject to designated criteria in view of groundwater susceptibility
 - max. added subject to Keren model in view of sensitivity for Boron
- Bottom ash as a plant growth medium – remaining existing requirements