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Report on salty soil treatment in China

Mr. Enzo Nastati is a well known European agricultural expert and the president of EUREKA Institute of Italy. He was invited by the Chinese Research Academy of Environmental Sciences (CRAES) to China to conduct a treatment on salty soils in September, 2014. The trial site is located in Tianjin city, which is near a large sea, Huanghai. Most of its soil suffers from high salinity and is not suitable for crop growth. A total area of 6000m² was selected as the trial target, where another 6000m² area was kept as control land. Mr. Nastati treated the salty soil by a homeopathic method. He mixed a bottle of “special liquid medicine” with enough water, then decided how to spray the mixed water on the land by checking the wind direction. He sprayed the treated land step-by-step by himself.



Mr. Nastati sprayed the salty soil only one time and he was quite sure some effects would be observed in 3 months. The soil samples were collected and analyzed by CRAES every 2 weeks and the total sampling period was 3 months.

The experimental results were quite satisfying to the landowner, because we found that the Cl⁻ concentration and conductivity were reduced while redox potential was increased.

(1) **Chloride (Cl⁻) concentration reduced significantly.**

Chloride⁻ concentration is often used to reflect the salinity of soil. After 3 months, Cl⁻ concentration reduced nearly 52.1%, lower than 200mmol/kg.

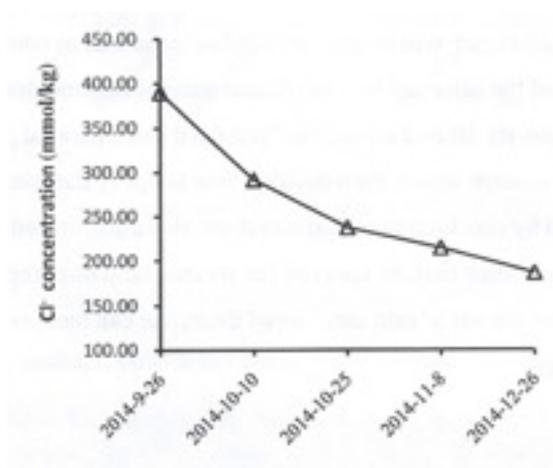


Fig.1 Change of soil chloride concentration

(2) **Conductivity reduced gradually.** It decreased from 238 μ g/cm

at initial to 185 μ g/cm by the end of the 3rd month.

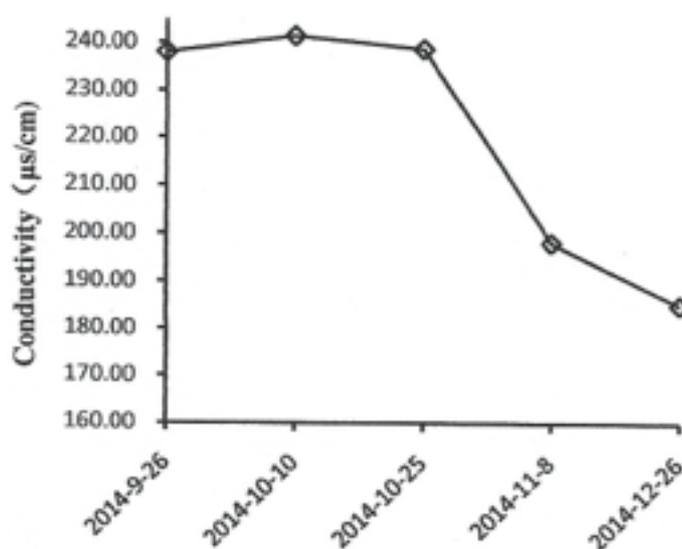


Fig2. Change of soil conductivity

(3) **pH value reduced slightly.** From 9.06 to 8.9.

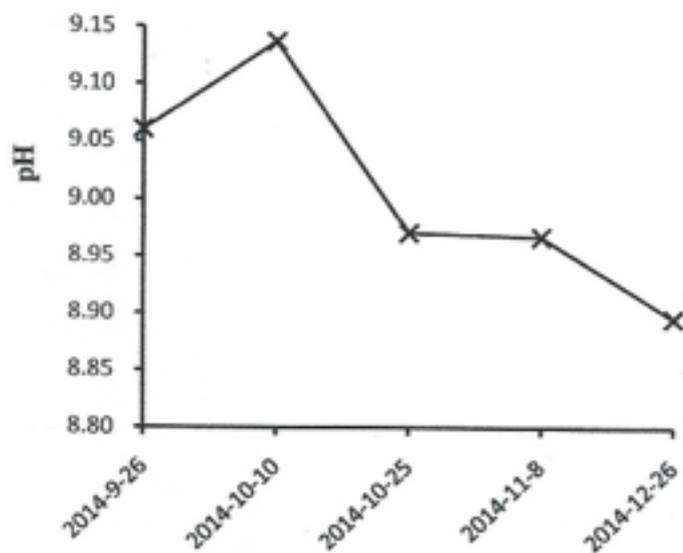


Fig3. Change of soil pH

(4) **Redox potential(Eh) increased significantly.** The Eh value of soil was as low as 8.00mV. After 3 months, it increased as 61mV.

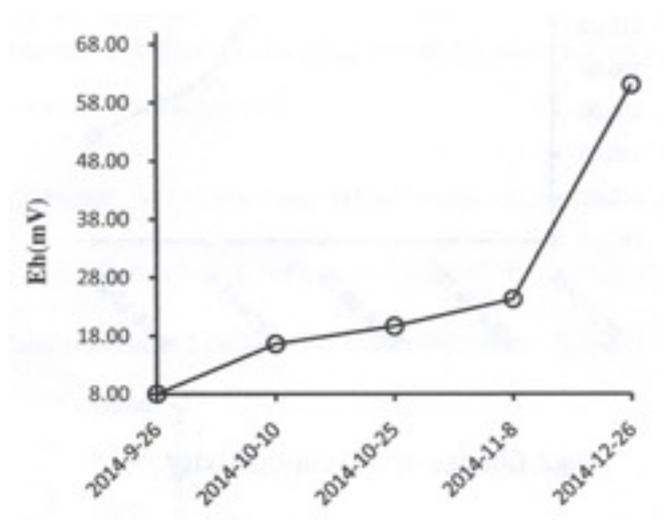


Fig. 4. Change of soil redox potential (Eh)

In general, the present trial was quite successful. This homeopathic method has a high application potential in Chinese agriculture.

An additional two trials has been requested by the Chinese authorities and will be conducted in the next several months.