

Saline And Alkaline Soil

Central Soil Salinity Research Institute Reclamation of alkaline soils with the addition of chemical amendments. Reclamation of saline soils through subsurface drainage. Development and release of 2a669eae94

== Natural occurrence == 2a669eae94

Soil pH Soil pH is a measure of the acidity or basicity (alkalinity) of a soil. Soil pH is a key characteristic that can be used to make informative analysis both 2a669eae94

Soil fertility Kovda, Victor A. Barton (ed. (1977). Arid. "Arid land irrigation and soil fertility: problems of salinity, alkalinity, compaction".). In Worthington, E 2a669eae94

== Causes == 2a669eae94 Over long periods of time, as soil minerals weather and release salts, these salts are flushed or leached out of the soil by drainage water in areas with sufficient precipitation or under irrigation, or may rise through capillarity and accumulate near the surface under intense evaporation during drought periods. In addition to mineral weathering, salts are also deposited via dust and precipitation. Salts may accumulate in dry regions, leading to naturally saline soils. This is the case, for example, in large parts of Australia. 2a669eae94 Salts are a natural component in soils and water bodies. The ions responsible for salinization are: Na⁺, K⁺, Ca²⁺, Mg²⁺ and Cl⁻. 2a669eae94 Human practices can increase the salinity of soils by the addition of salts in irrigation water. Proper... 2a669eae94 The causes of soil alkalinity can be natural or man-made. The natural cause is the presence of soil minerals producing sodium carbonate (Na₂CO₃) and sodium bicarbonate (NaHCO₃) upon weathering. 2a669eae94

Lysinibacillus alkalisoli Gram-positive, aerobic and motile bacterium from the genus of Lysinibacillus which has been isolated from saline-alkaline soil from Hanggin Banner. "Species: 2a669eae94

Lysinibacillus halotolerans halotolerant, endospore-forming and rod-shaped bacterium from the genus of Lysinibacillus which has been isolated from saline-alkaline soil from Lingxian County 2a669eae94

Soil salinity control "table salt"). Saline soils are therefore also sodic soils but there may be sodic soils that are not saline, but alkaline. World Soil Salt Degradation 2a669eae94

Coal-fired boilers and power plants, when burning coal or lignite rich in limestone, produce a type of ash containing calcium oxide, known as fly ash. Calcium oxide readily dissolves in water to form slaked lime, Ca(OH)_2 , an effluent which is carried by runoff to rivers and irrigation systems which it pollutes unless clean coal technologies such as IGCC achieve... 2a669eae94

Alkali soil They frequently have a hard calcareous layer 0. They derive their name from the alkali metal group of elements, to which sodium belongs, and which can induce basicity. Sometimes these soils are also referred to as alkaline sodic soils. 5), often accompanied by poor soil structure and low infiltration capacity Alkali or alkaline soils are clay soils with high pH (generally greater than 8. Alkali soils owe their unfavorable physico-chemical properties mainly to the dominating presence of sodium carbonate, which causes the soil to swell and makes it difficult to clarify/settle. 5), often accompanied by poor soil structure and low infiltration capacity. 3 ft) beneath the surface. Alkali or alkaline soils are clay soils with high pH (generally greater than 8. 6 to 3. 5 to 1 metre (1 2a669eae94

Streptomyces sparsus List of *Streptomyces* species. species from the genus of *Streptomyces* which has been isolated from saline and alkaline soil in the Qinghai Province in China 2a669eae94

Halovibrio salipaludis "Species:. Gram-negative, aerobic, halophilic and motile bacterium from the genus *Halovibrio* which has been isolated from saline-alkaline wetland soil from Binhai 2a669eae94

Soil salinity Soil salinity is the salt content in the soil; the process of increasing the salt content is known as salinization (also called salination in American Soil salinity is the salt content in the soil; the process of increasing the salt content is known as salinization (also called salination in American English). Salinization can be caused by natural processes such as mineral weathering or by the gradual withdrawal of an ocean. Salts occur naturally within soils and water. It can also come about through artificial processes such as irrigation and road salt 2a669eae94

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