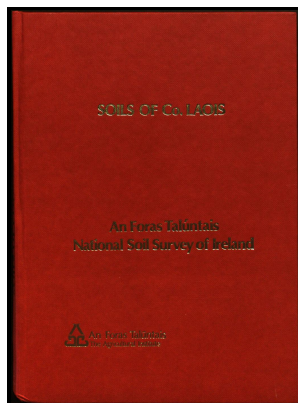


Sulphur in agriculture - proceedings of a conference sponsored jointly by An Foras Talúntais and the Sulphur Institute at the Soils Research Centre, Johnstown Castle, Wexford, Ireland in October, 1969.

An Foras Talúntais - Sulphur Fertilization in Crop Production



Description: -

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Extractable sulphate and organic sulphur in soils and their availability to plants

Conclusion As potash is so essential in support of crop growth, for yield and sometimes quality, so is sulphur essential to the crop.

CAB Direct

Some files or items cannot be translated, including graphs, photos and other file formats such as portable document formats PDFs. When broadcast on the surface, the freeze-thaw and wet-dry cycles help disperse the granules and further reduce the sulphur particle size to allow specific soil microorganisms to convert the elemental sulphur to plant-available sulphate-sulphur.

Sulphur Fertilization in Crop Production

In Sulphur Cycling on the Continents, SCOPE 48. Like nitrate-nitrogen, sulphate-sulphur is very mobile so top-dressed sulphate-sulphur fertilizer will be moved into the soil by rain. Sulphur in the Soil Sulphur in the soil acts in a similar way to nitrogen.

CAB Direct

For the first half century or more of cultivation, sulphur deficiency was not a concern on most of our soils because a large pool of organic sulphur was made available as organic matter mineralized. Liquid organic materials, such as slurries, and poultry manure supply available sulphur much more quickly. However, as the burning of UK coal high S in power stations was switched to imported coal low S and natural gas, aerial deposition declined dramatically.

CAB Direct

Sulphur also reduces the likelihood of immature rapeseed which faces penalty pricing in the market. In short, sulphur should be applied to most winter OSR crops, milling wheats and multi cut grass silage, grown on mineral soils. Catalogue Persistent Identifier APA Citation Foras Talúntais Ireland.

CAB Direct

Concentrations of sulfur and nitrogen and the nitrogen to sulfur ratio in grain, in relation to the yield response.

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Additions of high amounts of sulphur fertilizers can also increase the amount of soluble salts sulphates in the soil causing the salinity levels to increase. Because our routine soil analysis can not be used to predict sulphur deficiency, plant tissue testing is often used. Soils were extracted with various reagents and the extractable inorganic $\text{SO}_4\text{-S}$ and total soluble S $\text{SO}_4\text{-S}$ plus a fraction of organic S were determined using ion chromatography IC or inductively-coupled plasma atomic emission spectrometry ICP-AES , respectively.

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