

E. rubribrunneum, *E. pluteiforme*, *E. commune*, *E. alcalinum*, *E. avellaneum*, *E. washingtonense*, *E. Cokeri*, *E. sericiceps*, *E. subjugatum*, *E. subsinuatatum*, *E. Whiteae*, *E. giganteum*, *Pluteus niveus*, *P. unakensis*, *P. aurantiacus*, *P. rugosidiscus*, *P. melleus*, *P. lepiotiformis*, *P. melleipes*, *P. nanellus*, *P. glabrescens*, *P. squamodiscus*, *P. umbrinidiscus*, *P. atriavellaneus*, *P. eximius* (*Agaricus eximius* Pk.), *P. pallidicervinus*, *P. campanulatus*, *P. brunneidiscus*, *P. Whiteae*, *P. longipes*, *P. ludovicianus*, *P. griseibrunneus*, *P. avellaneus*, *P. deliquescens*, *P. fuliginosus*, *P. fibrillosus*, *P. latifolius*, *P. washingtonensis*, *P. fulvibadius*, *P. myceniformis*, *P. compressipes*, *P. pulverulentus*, *P. spinulosus*, *Chamaeota mammillata* (*Annularia mammillata* Longyear), *C. Broadwayi*, *Volvariopsis Loweiana* (*Agaricus Loweiana* Beck.), *V. pusilla* (*Amanita pusilla* Pers.), *V. pubescentipes* (*Agaricus pubescentipes* Pk.), *V. perplexa* (*Volvaria perplexa* Pk.), *V. umbonata* (*Volvaria* Pk.), *V. Earleae*, *V. concinna* (*Volvaria* Clements), *V. villosovolva* (*Volvaria* Lloyd), *V. submyochroa* (*Volvaria* Clements), *V. Peckii* (*Volvaria* Atk.), *V. speciosa* (*Amanita speciosa* Fr.), *V. emendatior* (*Agaricus emendatior* B. & C.), *V. viscosa* (*Volvaria* Clements), *V. gloriocephala* (*Agaricus gloriocephalus* D.C.), *V. alabamensis*, and *V. volvacea* (*A. volvaceus* Bull.). Trelease.

Lipman, C. B. and W. F. Gericke. Antagonism between anions as affecting barley yields on a clay-adobe soil. (Journ. Agric. Research. IV. p. 201—218. Pl. 29. 1915.)

Results are given in this paper which establish for the first time, so far as the authors are aware, the existence of antagonism between anions in a clay-adobe soil for barley (*Hordeum*) as follows:

Antagonism is shown between sodium chlorid and sodium sulphate and between sodium chlorid and sodium carbonate in the second crop. None is shown in the first crop.

Slight antagonism is shown between sodium carbonate and sodium sulphate in the first crop. It is questionable whether any exists at all in the second crop.

In subsidiary experiments the following points are established in addition to those named above.

Marked antagonism exists in both the first and second crop between sodium sulphate and calcium sulphate in soil cultures. This has not been considered possible hitherto by Hilgard.

In testing the toxicity of single alkali salts it is found that 0.1 per cent each of sodium chlorid and sodium sulphate stimulates barley in the first crop and reacts poisonously to it in the second crop.

Sodium carbonate does not manifest toxicity, but, on the contrary, shows stimulation even up to concentrations equal to 0.3 per cent of the dry weight of soil. Jongmans.

Personalnachricht.

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