Scientific (Muscellaneons

1928.

PILO

SUBJECT.

arboricueture

26 mapue

Hootes on.

Previous Paper.

MINUTES.

1-3' Minute pour \$160. 26th april 1929.

Dubmilled to fouthhim Venguin? 2. The Funting Office has at Fresensmuch to do clearing of J accumulated work and I would suggest that this copy should be egglostyled ruther Than included in the frentes rupplements. 3. I will thank D' mois for his useful and interesting articles salling

Subsequent Paper.

1. Jes. 2. Zeo. 3. Zeo, and say we release them and Rife for many more. Let lite of Panguin lype now is powerful -s remarks. (1327) All.

Minuto to Dr. J. Junes Moir, of 3rd May, 1929. Both articles published in Stingern. Of PA

Notes Cavagana (Siberian Pea Tree) History Over 40 years ago Caragana arbovescensto as introduced to the cold wind swelt prairie lands of northern Canada. There it has thriven, sproved a munificent benefactor to struggling settlets, sheltering them from the icy northern blasts. There are over 50 varieties of caragana, & of these three types grow well on the prairies. Plant Haragana frygmen. This shoul grows from 366 ft. high Adisplays short spines, a a solitary rich bronze flower. Caragana frutese. This variety grows from 8 to 10 ft. high, vexhibits four leaflets, & a solitary bronze flower. Caragana arbirescens displays similar character to frutex. It is the chief & most useful specimen of caragana. It grows well in semi-arid refusions, ais hardy in exposed situations. Its chief use is that it makes a wonderful hedge. Caragona is a legume, & has nitrogen forming, nodules on its roots, & it thrives best on lean, of sandy soils. The seed of the plant ripens in august. Profogation The seed may be soon in august, or it may be gathered, a stoved for sowing in spring, The seed if stored will keep well for two years. I sloved seed is to be som it should be souled Afor a period of one to two clays in tefic water before Later when the plants have reached a reasable size, they should be transflanted, a set 12 miches a fart.

a single now makes the best hedge as the gaps are more easily filled later. This variety does not strike well from cuttings, but if the soil is really good a fair return may be expected. Buttings should be made from wood of the second years growth.

Caragana arborescens grows well rabout two to three feet for annum, a with feriodical cliffing makes a wondrows dense hedge.

OS Co-Operation in Plant Life all forms of life are interdependant, one upon the other. In childhood's days we learnt of good faries, 9 of bad faries who quided the destiny of the hero of a tale; & in Pater life we learn of organisms that distroyus a most curious, wonderful instance of the latter has, of recent years, has been brought, by research into plant life, to the notice of the Plant life requires many chemical substances for its existence, rone of the most important is nitrogen. This substance is present in great plenty in peaty soil but in such a form that plants cannot avail themselves of it, & yet beeches, fine trees, & heather thrine, & multiply in feat bogo. How isit that these flants pass the regovous tests of nature, & thrine in such immicable soils? Close examination of the roots of these plants reveals a feltilike mass of closely interwoven hairs, of these are the hyphae of a Jungus. The association of the Jungus, & The boot hais profer which nowish the tree in good soils is called my corrhiza. Trees growing in good soil have bookly developed my corthizal white in poor, or very acid soils such as feat, the my corrhiga aswelldereloped. now what is the exact use of the fungus to the tree? The fungus is not desential to the tree for its occurrence my be casual or it may be absent. It is absent, or foorly

developed in those soils where nitrogen is available in a form (nitrate) easily absorbed by the tree's own by root hairs. Where the nitrogen is only present in complex forms, not readily absorbed by the tree, we find the Jungus in abundant association with the root hairs, preparing, asit were, the daily bread of the tree. In return for the nitrogen made available for its use, the tree dispenses sugar Astimilus for its growth & fruition to the fungus. It is said that, in certain drawed heaty soils, without the aid of the Friendly fungus, member of the confer family could not survive. The bonds thusfore, between tree of Jungus vary in accordance with the necessity imposed upon the tree of having a partner to help gather the necessary nitrogen from an inhispitable Doil, on some cases the tree is wholly defendant upon the fungus for its surrival in Whether, on not this is the key to success or failure of arboriculture in the Falkland Islands is a malle for some consideration. In the thinking mind at once arises the question, " Is the line's Invovider present to provide provisions for the lion?"

(It is requested that, in any reference to this minute the above Number and the date may be quoted).

From PM. 0. SEC. 27 APR. 1929

26 7 Feb. 1929.

To

THE COLONIAL SECRETARY,

Stanley, Falkland Islands.

There are the outcome of a discussion with the Parkinson, rat his suggestion I have wrotten up the subject discussed. I have no information of the fact set out in (one) have ever been throught up. The introduce of the tackthat hites have never grown here, attruspine the recessing long as never did, a world we seek is a min that has not been perented to me by anyone intrested in arbanical have not been perented to me by anyone intrested in arbanical have their colony.

No. 190/29.

MINUTE.

3rd May, 19 29.

(It is requested that, in any reference to this minute, the above Number and the date may be quoted).

From

THE COLONIAL SECRETARY,

Stanley, Falkland Islands.

To Dr. J. Innes Moir, M.B., B. Ch. D.P.H.,

Principal Medical Officer,

STANLEY.

I am directed by the Governor to thank you for your useful and interesting articles on plant life submitted under cover of your Memo. of the 26th of April, and to say that His Excellency welcomes such articles and hopes for many more.

2. I am to add that these articles will be published in the "Penguin".

for Colonial Secretary.
