

einer genügenden Zahl von Jahren geprüft worden waren, zeigten sie in Beziehung auf Winterfestigkeit günstiges Verhalten, so dass der Verf. selbst die Bastardirung zur Erzielung winterfester Formen empfiehlt.

Fruwirth.

HARDY, M., Bot. Geogr. and Biolog. Utilisation of Soil. (Trans. Roy. Scott. Arboricult. Soc. Vol. XVII. 1903. Part. I. p. 110—116.)

The regions bordering on the Mediterranean have been ravaged as a result of clearings, ignorant treatment of forests, and excessive pasturing of sheep and goats. The same with the Alps and Pyrenees: deforestation here caused devastating floods, the water being no longer absorbed and regulated by forest vegetation. Rivers, e. g. the Volga, get silted up by the waste from the mountains; this is the result of the drainage of marshes and the deforestation of the low hills which give birth to the rivers. In Scotland peat-bogs, deer-forests, etc. cover the country; the forest-industries are extinct; hence the country grows poorer.

The world-production of timber is insufficient, as seen from the fact that the imports exceed the exports in many European countries. The supply from exporting countries like Norway and Russia is decreasing. Sweden and Canada are the only safe reserves. China, Egypt, South Africa and Argentine Republic are all timber-importing countries. We are advancing towards a timber-famine. The wide unutilised lands ought to be reforested. The state should encourage this by means of exemption from taxes and free gifts of seed and seedlings. The author then institutes a comparison between Scotland and Scandinavia with the result that he sees no reason why the former should not be as well-wooded as the latter. The climate and geological conditions are very similar. He then gives a history of the way successive governments have hewn down the forests in Scotland, where formerly there prevailed a much denser population.

W. C. Worsdell (Kew).

Personalnachrichten.

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