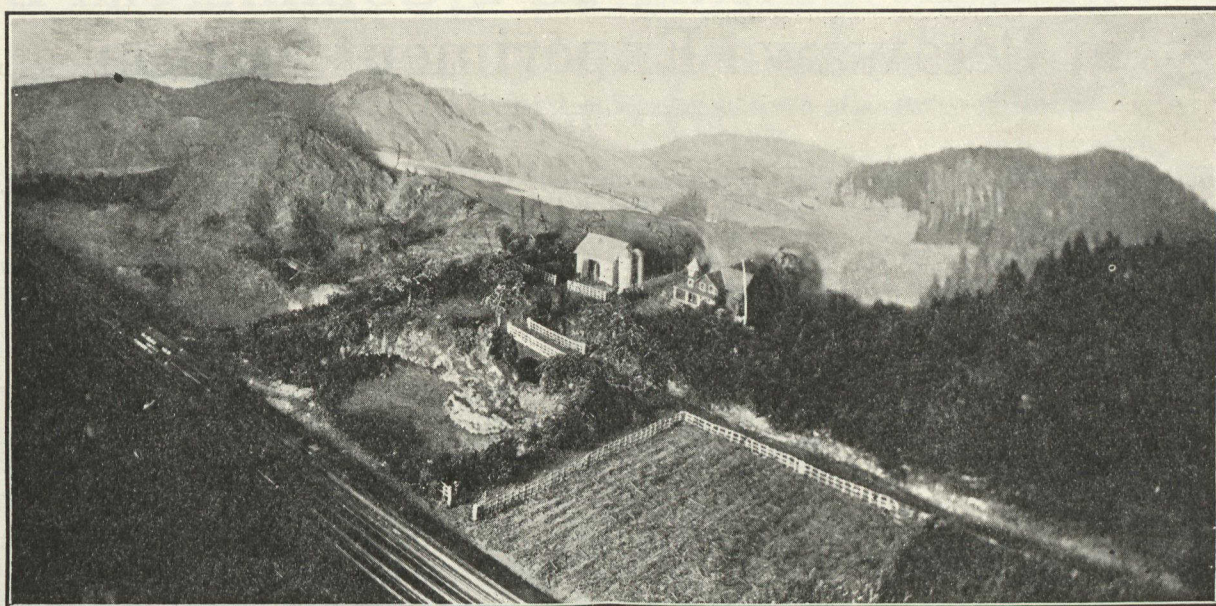


Importance of Forest Growth on Mountainsides to Valley Farm Lands



THE NEW Erosion Model just completed for the Canadian Forestry Association's "Forest Exhibits' Car", here tells the story in graphic form of the evil effects of stripping tree growth from the watershed areas that govern our Canadian rivers.

The model, nine feet in length, built and colored with great beauty and lifelikeness, is divided into two sections, showing contrasting conditions of forest growth. The left hand portion, as will be seen from the above photographic engraving, illustrates the wretched results following upon the destruction of forests on steep hillsides. Erosion of soil has proceeded to such a dire extent that the agricultural lands in the valleys are totally ruined, being overlaid with boulders and debris, with the original fertile soil washed out and wasted. The remains of a once prosperous farm, are visible. Bridges are broken down, and the general signs of barrenness and unproductiveness are everywhere to be noticed.

On the right hand side, however, the forest growth on the hillsides has been retained, with the happy result of a well-regulated run-off of water, deep and uniform streams, a highly fertile and prosperous farm, with well cultivated fields, a fine home and farm buildings.

By a mechanical arrangement, a rain fall is produced from a masked portion of the clouds above, so that the onlooker can see for himself how the rain and melting snows are a source of devastation on a deforested mountain and valley section while acting as a source of enrichment and blessing on a forested area. The rainfall looks most natural and the general educational effect is graphic and impressive.

The above photograph was made in a semi-dark railway car and gives only a scant idea of the attractiveness of the model. The maker was Mr. W. C. Willmore, Ottawa, and scenic effects were by Mr. Alan Beddoe, Ottawa.

Sweden's Royal Road to Prosperity

(Concluded from page 720)

ling of logs quickly and cheaply. I believe this mechanical device could be used profitably for the towing of logs across lakes and oversea. We were also much interested to notice the great trouble which the Swedes take to sort their logs, so as to saw, at the same time, logs of the same diameter.

I believe this rapid outline will give you a fair idea of what our main competitors in the lumber, pulp and paper trades are doing. The Swedish people intend to remain in this trade for ever. They certainly have taken the means to preserve and improve their forests, whilst they have also secured the technical help which has done so much to promote the ad-

vancement of the German trade and industries.

To sum up, I may say that if we want really to improve what we have, we must first of all protect what we have left: the fire menace must be eliminated. Then we must make a thorough inventory of our forests, so as to know what we have left. Then it would be advisable to reclaim all the waste lands by judicious plantations. The increment of the young stands may be improved by proper thinnings.

To carry out efficiently this policy a large number of men is needed. Foresters and rangers are absolutely necessary, and the Government and the lumbermen must co-operate fully together to recruit these men as

quickly as possible. A ranger's school is necessary.

It is needless to say the lumbering will have to be carried on more economically. We cannot afford to lose so much material as we do now. The tops must be smaller and the stumps not quite as high as they are. The defective trees must be removed so that they will not seed and produce an abortive class of trees. We must fight the insect pests. We must keep the forest clean, taking the measures which will be more efficient and timely. It is a rather vast programme of reforms, but I believe we are big enough to tackle it, and if there is any part in America where modern and efficient forestry business can be conducted, it is here in Quebec, where we have a progressive group of lumbermen who are really anxious and ready to go ahead.