function of the Adirondack forests is found in the influence which they exert upon the streams heading among the hills of the Adirondack plateau, which distribute the heavy rainfall of this region. As reservoirs of moisture, these forests are essential to the continued prosperity of the State. Their influence is felt far beyond the limits of the State, and their destruction must be followed by widespread com-The future of the rivers which flow from mercial disaster. the Adirondack plateau may be judged by their past. Great changes have been noticed in these streams since the area of the Adirondack forests has been materially reduced. All the testimony which the commissioners have been able to collect upon this subject, indicates that the summer flow of the Adirondack rivers has been decreasing within the memory of men now living, from thirty to fifty per cent.

These effects have a simple explanation. Any land area covered by forest has its rate of evaporation reduced by the shade thus afforded to the extent of 38 per cent., as compared with cleared lands; and the reduced evaporation under such circumstances so far exceeds the loss of water by transpiration, that there is an actual accumulation of water in the soil of forest-covered areas. Moreover, the organic matter accumulated in the growth of a forest, and the abundance of moss induced by the moist shade thus afforded, serves as a retaining medium to hold the excess of water and allow it to gradually flow away into the st. cams. It follows from this, that streams rising in a dense forest will be distinguished by the uniformity of their volume and rate of flow; drought and flood are rare; springs abound. A removal of the forest destroys all the conditions upon which these phenomena depend. The stream experiences strong fluctuations in volume and rate of flow; springs disappear, and drought becomes frequent; while every rainfall is immediately precipitated down the steep hillsides, rapidly merging into a flood, which carries disaster in all directions