great accentury to the planting of bare hillsides; and it has a point of the steep bare hillsides; and it has a point of the fall of works. hand, and floods on the other. When the forther the rain slides and ravine slopes are such to the rain slides. to the planting of the steep bare hillsides; and it has almost found that the fall of water has almost found the time when No. water has almost water has almost the time when Napoleon was a self of since. The reason seems obvious. The reason has a self there, trees in hot all. The reason seems obvious. The reason seems obvious. The reason seems obvious. The reason seems obvious a transfer there, in hot climates, is always a seem of the surround. follower there. The in hot climates, is always proper than that of the surrounding atmosphere than the surrounding atmosphere the surrounding atmospher poer than that the loaded with moisture exhaled from winds, loaded which they have past, sweep the winds, loaned they have past, sweep over the open over which they have past, sweep over the spand. The trees condense this, and it The trees condense this, and it is be island. Still more remarkable of the street of the still more remarkable of the street of by island. dew or rain. Still more remarkaprosited in uch by the famous fountain trees with the famous f ferro, one of the Canary Islands. Perro, one sing power that they seem to be still wrapped in a vapory cloud wrapped in a vapory cloud, and the wrapped in drops upon the leaves, wrapped with the branches and stems misture down the branches and stems, and colpickles into a reservoir at their feet, forms a lecting into a fountain. It is a repetition or peting into a large that fountain. It is a repetition on a large that of the phenomenon which comments a of scale of the phenomenon which occurs when of scale water is brought into frequency of iced water is brought into a heated

We have of late years heard much of drought we consequent famine in the Cape de Verd The soil is of a peculiarly porous naand therefore requires a constant supply me, and supply moisture as an indispensable condition of fer-For a long time the climate has been mustantly growing less and less humid. The Socoridos, the largest river in Madeira, formerly had a sufficient depth of water to float imber down to the sea. It is now a mere ivulet, whose waters, except in flood time, are garcely discoverable as they trickle along its nebbly bed. This diminution of moisture can he traced directly to the destruction of the forests that formerly covered the mountain sides. The Portuguese government were early aware of this, and laws were framed prohibiting the cutting down of trees near springs and sources of streams. But timber was valuable, and the and was wanted for vineyards. Portuguese have were powerless against the demands of immediate interest. So the trees were cut down, the springs failed, and fountains dried Hence came drought, famine, and destition. Present gain must sometimes be purchased by future loss. It is not good policy to the goose that lays the golden eggs.

Trees regulate the supply of moisture in many Mays, even where we can not suppose that they feet its absolute amount. The evaporation their leaves is considerable, and this, difthrough the atmosphere, is wafted over the tracts of country. They shelter the ground heath them, and thus prevent the water that from being carried off by evaporation, alwing it to penetrate the earth, keeping the wings and fountains in perpetual flow in the driest seasons. Their roots and included being penetrate the soil, preventing it from beand form-Their roots and interlacing by a some away by sudden showers, and formliga sort of sponge that absorbs the water, and shes it can be sponged as a sponge that absorbs the water. fres it out slowly and uniformly, thus equalizing its a its flow, preventing droughts on the one

ests on hillsides and ravine slopes are cut down, the rain slides off from them as from a roof. A sudden shower swells every rivulet into a torrent. Every tiny brook pours its accumulation at once into the rivers, whose channels are inadequate to carry off the sudden accession, hence disastrous inundations, followed at short intervals by low water. The supply of water that should have been distributed over weeks is exhausted in hours. That which should have bubbled up in springs and flowed through rivulets, making the meadows green, is carried at once through the great rivers to the ocean, to be again taken up by evaporation only to go again through the same round. The volume of the great rivers, the Danubes, the Mississippis, the Niles, the Rhines, and the Connecticuts may undergo no change from age to age; for they derive their waters from a wide extent of country, and droughts in one section are balanced by showers in another. But the smaller rivers diminish, the rivulets dry up, and the springs fail, except immediately after rains, when they are greatly swollen. Thus by the operation of one law, the destruction of forests causes the two opposite evils of floods and droughts.

Humboldt appears to have been the first to call public attention to the probable consequences of the destruction of forests. In 1800 he visited the Lake of Valencia, in South America. By careful observation he found that, in the course of the preceding century, the level of its waters had fallen five or six feet, and its shores had receded a number of miles. The neighboring mountains, he says, had been formerly covered with dense forests, and the plains with thickets and trees. As cultivation increased, the trees were cut down, evaporation from the surface was accelerated, the springs and fountains dried up, and the shores being low and flat, the surface of the lake rapidly contracted. years after his visit, the War of Liberation broke out; men betook themselves to fighting instead of farming; the tropical vegetation, no longer kept in check by man, again overspread the hills and plains. The rain-water, no longer taken from the surface into the atmosphere, sought out its ancient fountains; the rivulets reappeared, the waters of the lake began to rise and overflow the plantations that had been formed upon its banks.

It is a well-known fact, that the lakes in the valley of Mexico have lately contracted since the old Aztec times. The city of Mexico occupies its ancient site, but it is now some distance inshore instead of on an island, as formerly. This is to be ascribed to the felling of the forests that formerly clothed the adjacent hills. In the mining district of Popayan it had been observed that the streams which put in motion the stamping-mills were diminishing in volume from year to year, although observations showed that the fall of rain had not diminished. Still that which found its way to the wheels of the stamping-mills