## AN GAATERN VIEW OF PACIFIC COAST

 TLMDEA PHEBERVATION.Prof, C, 8, Sargent, Direetor of the Botanie Garden of Harvard University, writen an article on foreatry for the Nation, in the course of which he presente his views on the deetruction of timber on this coast and the means of restor ing depleted foreate. He thinks at the Fant the reatoration may be left to individual and ourporate intelligence and enterprises, and then continues as followa:

West of the Rocky mountains all is different. The onantry is cut up by high mountain chain overlooking narrow valleys The rainfall is in parts of this region escoedingly small, and everywhere very unequally distributed through. out the year; so that once dentroyed it would be diffientt or, indeed, imposeible to restore any
forests of this region beyond the immediate inforests of this region beyond the immediate influence of the Pacifie ocean; while its peeuliar topography demanin that the monntain rangea remain foret-covered that the valleyn may be habitable, large portions of this Weatern territory are still in the hands of the geomeral Goveramest, and before it is too late, steps should be taken to net asile and norupulously preserve at least such portions of forent covered mountain ranges as give rise to important atroams. It is probably alrealy too late to proserve any oonsidnrable jart of the scanty forests of the 'Great basin." They are everywhere fast melting away to supply the enormous and often unnecesasry demanis of the mining enterprisen of that region. These foresta, which are of immense apo, once destroyed, will never reappear, and the streams which now make agriculture posaible in the valleys through irrigation will, at no distant day fow ouly during a ahort jeriod of the year, If any portion of this interior region is worth saving for agrieulturs, immediate stepa mast be taken to pheerve the remnanta of ita forests, of it will not long support even ita pren. ent amall agricultaral population.
More important still is the necensity for Gov. erament or Sitale proervation of some part of the noble coniferous forest which graces the "restern slopes of the Sierra Nevada. The futare of California depends on the existence of this forent. Nowhere on the face of the globe is the physical necessity for preserving the forenta greater than in California; nowhere has the world seen its forests sa rapidly asil senselesily destroyed. We will brielly examine what the dangers are which threaten Califorsia, and what should be underiaken to prevent or at least diminish them. All along the western slope of the Sierras numerous rivers hesd, which, flowing westwand throngh the rich foothills shid great plaine of Califortuia, fall into the Kacramente and the Kan Joaguit, the one flowing math and the other north, sud at length enaptying into the bay of Kan Praacisoa. Through these rivers mast pass all the moisture, not ahosibed by the
soil, which the Sierras attract from the soil, which the sierras attract from the cocean lying almost at their feet. The annual precipitation of moisture in these mountains, although Almose esclasively confined to the winter minths, is atill very largey a fall of co foet of show darisg an exoptionally severe winter having been reported is the high Sierras. It results that in the early summer months, when the now is melting these monstain stramis become large
and rapid rivers, carrying off immense volumies and rapid nivers, carrving off immense volumines of water, sad then alsost entirely disappearing summer raing, the leagth of their aninual dura tios must depend of the slownese with which knewn fact that snew mette melta, It is a weilknewn fact that snow melte mash loes rapilly, and that much more of it is alworbed in the foreat than is the open grosed; while the resistanes, eapeciailly by their sudergrowth and Feasting of faplecially by their sudergrowth and
coav, to the raphl ranning of of water or melting snow. If the foreate of the Rierras are destroyed, their anneal snowfall The probath not to materially diminiahed.
it will be much shorter; and the absorbing power of the forent being gone, the volume of water pasaing through the rivers will be greatly increased. It is not difficult to foretell the renulta, Every season, earlier at the south, later at the north, torrents, more terrible and more dentructive than the history of the world records, will carry during a few weoks death and desolation from the mountain-sides down over the foothills, covering the plains with debris and holding the cities lying along the low banks of the larger rivers at their meroy. And then, when this terrible ruah of a few days is over, it will be fousd that the whole supply of water for the summer is exhausted. The foothills and the plain will no longer produce fruits or vegetables, or any summer crop for which irrigation in eneential, for no water to irrigate with will come down from the mountains. "Placer mining" will be a thing of the past, and even the navigation of the great rivers will be either interrupted or abandoned. During the last 50 years more than one country in Earope has been visited by calamitien similar in origin and extent to those which now threaten California, but in none of them were the physical reasons for the danger no great. The mountains from which the dostructive torrents of Earope have aprung are
lower than the Siern, lower than the Sierras, lens heavily foreat-clad, and onjoying a more regular precipitation of mosture with a much amaller snowfall, and so lens able to produce sudiden and disastrous torrents.
There is but one remedy for the dangers we foretell, and on its adoption depends the future of California. A atrij or atrips of forest must be set aside along the western slope of the sierras extensive enongh to secure the natural
flow of rivers, and thene reservation tlow of rivers, and thene reservations mast be atrietly guarded from fire, the axe, and especially from all browsing animals. It is in her est danger now lies, These with mials great-
not est dangor now lies. These, with countleas
herds of other browsing animals, are driven berds of other browsing animals, are driven up every nummer from the plains into the mountains to feed during the dry season. The damage they are inflicting in the Sierra forests is terrible and indewribable. One can ride for daye at a certain elevation through the mountains along the sheep-trails without seeing outside of the rare ranch enclosures a single uninjured shrab or a seedling tree of any sort. This meang the sheep can reach is eaten clean. This means that there is nothing left of the for eat but its older trees, and that it has lost or is last losing its best element for holding back melted now ; and it means, too, that there are the bew trees coming on to take the place in their turn of their parents. As the number of animals driven to the mountains increases, for. est lirs increase also, set by the shepherds next year's fent. Aly parposely to increase the tire, yon whing. A forest amnually wasted by inruads, sed the axe is always making terrible lowed to spring up, is dearly dommed. When that of the Sierras, the noblest of our con tinest, has gone, nothing will stand between Calfornia and the dangers which threaten
her. To preserve Californis is greatest duty of American foreatry. The plished if ditficult one, but it can be accomplished if her people desire it.

The Theatmest or Sphaisk, Mr, Dacre Fox, an English surgeon to a large railway of this form has had considerable experience of this form of injury, says that in the more fovere cases be finds that after a fow days of presaure by means of carefully is regulated asil large plasters of a specilly adjusted pade according to the particular foint shape, varying this plan he feels sure that it is posesible to control the effusion into the sheaths of the tendons and aljacent atructures, to leasen the pain, and to shorten the duration of treatment.
"Os this head," said the lectarer, "there i
mothing left to be desired." The ball-beated nothing left to be desired." The ball-headed
mas in the front row inmediately rose to call order.

## LIGHTENING THE BURDENS.

"I winh to goodness I had broken it !" and, rising from the fall a carelens atop had caused, she examined the bruised and painful arm ; which now would prove only a new weariness, an added weight to the daily burden; while, it she could only have broken it, the burden would have been lifted for a brief veason from the tired ahoulders, and, consoience quieted by the inevitable necessity, she would willingly have purchased the reat that it would bring with the suffering that must follow. Then gathering up the wood once more ahe passed in, leaving us a lenson in the exclamation worth eonaidering.
Must life, indeed, be only a hardahip ! aurely not ; if thowe who have the power, have also the will to make it something else. The first atep in the determination that a change ahall be made; the wish for improvement and pleasure muit lead to a resolution that the oup of life ahall not contain altogether a bitter draft, but
shall be aweetened by love, shall be nweetened by love, enoouragoment and such aid toward intelleotual progrem, an honest and faithful endeavor can render. Thowe three sweet comforters can do more toward reconoil ing a woman's heart to the absence of wealth, that can furnish ease and luxury, and fill it with purer contentment than riches alone can do.
The next atop in to remember, always, that happy results follow the nmallest beginninga.
One caunot make a great change One caunot make a great change in life or nature, by ever so firm a resolve to walk another road, but they ean enter upon it, and if patient. ly and earnestly followed, they will gather the roses and find many a dear delight.
Even if the handn are fufl of care, and the days seem all too ahort for the many duties, plan for a moment in which to look over a paper or magazine, that you may gain some item of information or a noble thought, that shall lead your own above the weariness of your lifo. If you can make thin a daily habit (and many can do no much more), it will create an atmosphere in which your mind can reat and expand, while your hands are busy.
It is said that the constant contemplation of amall thing narrows a woman's mind, and a Ifvel that we munt contemplate just as many great things as our ciroumstances will allow. Perhaps you think that such do not come within your horizon ; but the habit of looking for them, and of gaining from the minds, bookn and lives about us, the best that they possess, will aurely enrich uis greatly, making us more capable, companionable and intereating. You duty dictates, but aimply in in the proportion duty dictates, but simply in the degree in which
we render ourselves lovable we render ourselven lovable ; and will we not more probably accomplish that reaule by atriving patiently amid many dincouragements, to eutivate our minds and gaard our tempern,
deapining not the refining influenoe of neat, be-
coming and pretty attire, ooming and pretty attire, rather than by yield. ing up all such ambitions to that inexorable tank-maater "work," who will aboorb all our watchiful strength and thoughta, unless wo are watchful and guard a portion of all for higher purposes ! In the field we have just heen glancing over, the Rural Pruss has been doing a noble work, and I wish to express my true and carnest appreciation of it bofore olosing thit intle visit with my friends among its readen, into whone faces I have never loofed.-S, C. B. in Pacific Rural Press.

Theatmext of Difitheria.-Dr. Bechelder, in an Australian journal, says: "4I would sug. une internally a very weak solution of carbolic ane internally a very weak solution of carbolic hydrochloric acid, about the atrength of strong cider visegar. I have treated every ocse successfully, so far, with the above remedies. Apoup is instantly relieved by the acid solation. Apply it to the throat with a bruah or aponge,
or use an a gargle,"

