not changed our climate for the worse. It has

of the Southern Alleghanics, would agree with

steadily moderated for the last forty years. Eye witnesses in eight or nine different

counties assured me, for instance, that in the

first half of this century the Ococee (or Tocoa,

heavy snow storms have become shorter and less frequent, and "cold snaps" less severe,

States one often hears the complaint that the

bad weather has begun to set in sooner—i.c., that the miracle of the Indian Summer seems

slope the ruralists of a prehistoric race have

planters into redeeming their worn out fields,

and it is evident that the experience of France

has awakened our agriculturists to the climatic

importance of our remaining wood-lands though the work of replanting the forests of the West appears to lag from want of

But it seems more than probable that weather manufacture is destined before long

to become the principal occupation of the human race. The children of the next cen-

tury, like the Alabama cotton planters, will be obliged to reclaim their own fields. In-

stead of husbanding the interest of our earthly

inheritance, we have devouted the principal,

till the day of reckoning is now evidently near at hand. The 680,000 foreigners whom a

single year has added to our population, and

its average increase of four-tenths per decade,

presage that a second centennial of our in

dependence will be celebrated by half a billion

citizens of the United States; in other words, that before the end of the next century our

"We will reclaim the land of our fathers," said Mehemet Ali, when he plauted his Waddies. "You will? you must?" one might reply with Byron's French Count. To plant or not

to plant will soon be an equivalent of Hamlet's alternative. The Old World was on the verge of bankruptcy when Colon and Cook effected

cultivating old fields or the talents of Dr. Tanner. A considerable plurality of European

able that the tide of immigration will overflow luxurious villas. into Mexico and South America. There, too, When Pessin

a stay of proceedings; and if that respite is up the prodigals will be reduced to a dilemma of

not to last as long as formerly.

systematic management.

old men-et apres?

farmers, representing the five mountain States, tion will begin.

dundance of forests that thus far the axe has our territory, but the next forty years will not changed our climate for the worse. It has suffice to convince them that the builders of

made our summers a trifle dryer and the the Casas Grandes have forestalled us in the winters considerably warmer. Very dry sum: Great West, and after a recoil toward the mers like those of 1875 and 1881 are too neglected highlands of the Alleghandes the exceptional to establish the probability of a westward current of the tide will bring us back

permanent change; but I venture the asser to our eastern garden home: the first cyce-tion that a committee of five hundred old will be completed and the era of reconstruc-

of the Southern Alleghanies, would agree with hardly a dozen dissenting voices that the Algerian colonists will have taught us a useful temperature of the five coldest months has lesson. The results of their systematic hortistically moderated for the last forty years

as they call it in Georgia) used to "freeze has once taken root it exerts a fertilizing insolid" about every other winter, while during fluence on the adjacent sand fields; even in

the last fifteen years it froze only twice—in the midst of the desert, a clump of forest trees February, 1877, and January, 1881. So in tends to propagate itself—Vishnu prevails West Virginia and western Pennsylvania, against Shiva; and without the constant inheavy snow storms have become shorter and tenference of the Simia destructor, as Lorence and tenference of the Simia destructor, as Lorence of the Simia destructor of the Sima destructor of the Simia destructor of the Simia destructor of

less frequent, and "cold snaps" less severe, Okan proposed to call the mischievous biped, though in the agricultural districts of the same the spontaneous spread of the cases would states one often hears the complaint that the

In the west indies and some of our Gulf establishment of that alliance has once been States the clearing of the primeval forests has already gone too far. The denudation of the coast plums has produced extensive sandbarrens and their usual concomitants, sandbarrens and scorching summers. On the Pacific and scorching summers. On the Pacific and scorching summers are been deadly a concomitant of that alliance has once been recognized as the only pratical plan of salvation, the work of redemption will proceed fast enough to meet the wants of a growing population for many centuries to come.

Asia Minor would be a good nucleus a can-

committed the same blunder on a larger scale, the five Aryan Empirer, and in itself the and the return of many discouraged pioneers fairest prize of the redemptor. The tree of the Great West has scared our cotton gardeners would extend their plantations and follows.

country—prairies, mountains, and all—will be and even the twentieth century may witness as thickly populated as Egypt under the the highest triumph of the Caucasian race; Ptolemies, or as Belgium under her present the restoration of their birthland in the King. But since General Hazen has proved fertility that could astonish the leaders of the

that it would be far easier to reclaim Palestine | Egyptian refugees, and with a climate that than two-thirds of our Great West, it is probacould lure the Italian magnates from their

into Mexico and South America. There, too, When Pessimism had gone out of fashion every square mile of arable ground will be Claude Bernard, M. D., ventured in a public

crowded before some of our boys can be called lecture to profess his belief that the progress

business.

In the West Indies and some of our Gulf establishment of that alliance has once been

culture have revealed the consoling fact that

the work of the first successful tree planter

facilitates the labor of his neighbors as well as of his successor. When a good sized orchard

probably redeem the "Dying Continent" in two or three centuries. But the alliance of

man and nature is more than a match for all

the hostile powers of the elements, and if the

Asia Minor would be a good nucleus, a cen-

tral weather factory for the withered fields of

from the mountain woods downward, and after

the western highlands had once been restored

to their pristine fertility, grove after grove of the ancient settlements would emerge from

the sand sea like the mountain tops from the assusging waters of the deluge. Further east

the difficulties of the work would increase, but also its rewards. The Taurus and Lebanon

will receive the Aryan wanderers in the home

of their fathers; the river nymphs, the wood birds and wood gods will return to their ancient haunts; the terrace lands of the

Mediterranean coast would offer every variety

of soil and of climate, ready-made names for

every new village, and chances for classic treasure-troves, in every plowed field. The first May festival under the replanted oaks of

Bashan will be the birthday of a new world,

the second advent of the Juventus Mundi.

The harmony of nature recalls in the smallest things the law of the greatest, and if the labor

of a single man can redeem an old farm, the labor of millions can redeem an old empire;

of science was destined to effect the physical

regeneration of the human species. "The physical laws of God," said he, "shall then be so thoroughly understood that a sensible man

will think it a disgrace to be sick." Nor is it

impossible that the nations of that golden age

will be ashamed of a drouth, and that Macaulay's New Zealander will gather figs on

No man can be successful who neglects bis

No rank can shield us from the impartiality of

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That stopped the sand drifts for five or six years, during which time his vineyard and an orchard of young apple-trees became the finest

dred hamlets had to remove their houses and rebuild them further landward, when it occurred to the proprietor of an endangered farm to protect his garden by a bulwark of rush-wattless.

yard in a single week. But the orchard stood its ground; the foremost row of trees had broken the force of the wind, and the rearward 10 % continued to flourish till nothing but a sand hurricane could have endangered their growth.

on the Breton coast, till a heavy sand-storm overwhelmed the bulwark and ruined his vine-

advance of the dunes, and thus given the in-

In 1832 Mehemet Ali decided to try his luck

and distributed to the overseers of an army of l'ellahs; and according to a moderate esti-mate, *15,010,000 of fruit and forest trees were

actually planted and so carefully nursed that

vo per cent, of them took root and helped to

Weather Factories.

CONTINUED. 1

In Greece and Sicily the three midwinter months resomble a west Indian rainy season,

and increase the sickliness of the coast swamps to such a dogree that foreigners generally pre-for the misery of the dog days. Byron arrived at Missoloughi in the month of Fobrary, and

died in April, after fighting the fever for six weeks. The summers are healthier, but inex-

orably dry; and, without irrigation and the

elevated mountain ranges that always have a little moisture to spare, Southern Europe would be a sort of Africa Minor. Murcia and Valencia, under the parallels of Missouri, are

hotter in summer than Southern Yucatan; on

the Gulf of Salerno, near the ruins of Paestum,

110 degrees in the shade is nothing unusual:

for the proximity of the ocean is no protection against the arts of the desert-makers; the Portuguese have managed to ruin Maderia, and

the Spaniards in a still shorter time, have ruined a considerable part of Central America

and the West Indies.

Up to the end of the eighteenth century the

whole world of the Caucasian races had been

a cooperative factory of villainous climates;

but about eighty years ago the good weather makers began their noble work. Near Cape Breton, on the west coast of France, the drifting of the dunes had encroached upon the arable soil till the inhabitants of half a hun-

The hint was too valuable to be neglected, and during the next ten years (1802-12) Prolessor Biemontier elaborated a system of tree culture which has since enabled the coast dwellers of Europe to reclaim about ten

thousand acres per year in France, and eight thousand in Denmark, Belgium, Esstern Prussia and the Tuscan Maremme. In the Landes of Gascony, and in the Belgian "Campine," the planting of the umbrella pine Paus maritima) has effectually arrested the

habitants a new lease of their land, but also a new climate; the average monthly rainfall has more than doubled in summer, and perceptibly decreased in the winter season. The improved summer weather of Bayonne, at the south end of the vast pine plantations, has made it the fovorite seaside resort of Southwestern France.

with the Waddies. or sand plains, on the coast of Egypt, Upper Egypt, Abyssinia and the slopes of Mount Caucasus were overrun by the tree agents of the autocrat: trees by ship loads and caravan loads were landed at Cairo,

qualify the soil for further plantations. As a result, the average yearly rainfall has increased from 0.60 to 14 inches, and the summer temperature of Suez decreased from an

average of 92 Fabrenheit to 86 degrees. malcontents are still under the impression busine In North America the colonists of the that the agricultural capabilities of the United Atlantic States were blessed with such a re- States could be measured by the total area of death.

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