from this symptom an ultimate failure of the supply began to be apprehended
The manner in which the laboratories of nature supply this article, is the most interesting part of our subject. It appears to be one of the choice ingredients which nature has reserved with peculiar care; for it is evolved only in a very few vol canic regions, and from its limited accumulation even there would seem to be the product of comparatively recent and local volcanic action. The main supply of commerce, prior to the California discovery, was from the estate of Count Lar derel, in Tuscany, where boracic acid issues from volcanic crevices in white clouds of steam and is arrested by the man ufacturers in excavated basins of water which absorbs it and on evaporation leaves it in erystals, mixed with a great variety of sulphates and other substances. The evaporation is carried on entirely by the volcanic heat supplied with the ar ticle from the bowels of the earth. The product is sold by Mr. Edward Wood, of Liverpool, who has thus enjoyed a vir tual monopoly of the trade, amounting to some $3,000,000 \mathrm{lbs}$. per annum, worth in first hands eight or nine cents per lb It is worth about thirty cents in the American market.
The Tuscan boracic region covers some thirty square miles of wild mountain land, where the heated and undermined crust trembles to the boiling and rumbling of the waters beneath, and breaks open in numerous fissures, giving vent to jets of steam impregnated with the vapors of sulphur, boracic acid and other minerals. Wherever in solution with water the escacid is taken up with the steam on boty valves of this great sulterranean boiler, is loaded with the substance in question. Other and minor sources of supply may be named, as Sasso, and Vulcano, an island twelve miles south of Sicily where it rises in steam from the bottom of the crater of an extinct volcano, 700 feet deep, and condenses on the interior like a perpetual accumulation of hoar frost or snow, underlaid with a bed of red-hot sal ammoniac.
Borax Lake, in California, ocoupies apparently the crater of an extinct volcano, elliptical in form, and about three quarters of a mile in mean diameter. It is situated on a peninsula embraced within the waters of Clear Lake; a sheet of water about twenty miles long, situated in the Napa valley, about one hundred miles north of San Francisco. The bottom of the smaller lake is full of borax, which is obtained by sinking iron coffer dams, exhausting the water, and digging out the earth. The borax crystals are picked out, the saturated earth is leached, and the lye evaporated. The formation of the bi-borate of soda is said to be constantly going on beneath the lake and impregnating its waters with carbonic acid liberated by the process. Sulphur banks in the kame vicinity are worked with great facility from an unlimited supply.

## REPORT OF THE REVENUE COMMISSION

The report of the Special Commissioner of the Revenue, David A. Wrils, is a document which every intelligent citizen of the United States owes it to himself and his country to procure and study. It is not a newspaper article, to run the eye over among other things. It is a work of science, research, arid philosophy; condensed into a pamphlet, it is true, but than almost any book, socalled, that we can thiuk of among the publications of years. In respect to the amount of intellectual labor expended, of talent, experience and knowl edge called into requisition from innumerable sources, and the number of collaborators employed and directed by one master mind, there are very few works in our libraries (except encyclopedias) that will really bear comparison with it. Mr. Wells has thrown his whole soul into his work, laboring with an enthusiastic industry, night and day, for years, and the result is a public service such as the country is rarely fortunate enough to obtain for its money, in any department. No man can be exactly right in all his conclusions, but if Congress shall legislate as well as Mr. Wells has advised, there will be little left to regret.
We would gladly give the report to our readers entire, did space permit. We can only glance at the main features, in the hope of inducing some of "the plain people" who govern the country at last, to make it their business to get and digest the whole.
It appears that the $\$ 50,000,000$ lost to the revenue by the whiskey frauds and cognate operations which have pervaded the whole liquor business of the country, have not been saved to the drinkers, but have mostly goneinto the pockets of manufacturers and knavish revenue officers. The average consumption being $40,000,000$ gallons per annum, would yicld at two dollars a gallon, a revenue of $\$ 80,000,000$. Less than $\$ 30,000,000$ were actually paid on only three eighths of the amount made and sold; and yot the avcrage ruling price, notwithstanding exceptional cases of which much has been said, has been nearly equal to the cost of manufacturing plus the tax, showing that in general the people have paid the tax, although their Government has not got it. From the enor mous development of fraud and official dishonesty in the past of the tax, it results that the revenue from spirits hasincreased of the tax, it results that the revenue from spirits hasincreased
but about two and a half per cent from that of 1864 , while the tas actually paid by the consumer has been four or five hundred per cent greater. The Commissioner recommends re ducing the "swag" fifty per cent: in other woris, maling the tax one dollar a gallon. A still more impurtant recommendation is renewed : that of supervisors of the revenue, with the duty among others of keeping the distillery inspectors in lively rotation from one sphere of inspection to another. The tax on carriages, watches and plate, is condemned as too inquisitorial, annoying, and expensive to collect, in proportion to the revesue derived therefrom. The tax of three

The general tax of five per cent on products and sales of man The general tas of five per cent on products and sales of man a proportional reduction of the specific taxes. The taxes on the manufacture of salt, emery, sulphuric acid, bar, plate and sheet iron, and on the elements of the manufacture of steel to be entircly removed, and that on refined sugar to be re duced from two and a half per cent to one per cent. The de cided opinion of the Commissioner is that a rapid reduction of taration, rather than a rapid reduction of the principal of the public debt, is at present the true policy of the (xovernment and that the adoption of this course, so far from protracting the period in which the national deltt can be discharged, will, on the contrary, greatly shorten it.

The taxes bear an excessive proportion both to the popula tion and the public debt. The amounts for the late fiscal year were: Internal Revenue, $\$ 310,906,984$, currency, and customs, $\$ 179,046,630$, gold ; a total of $\$ 561,572,260$ in curren cy. Our domestic manufactures are taxed $\$ 178,000,000$ business (licenses) $\$ 18,000,000$ (gross receipts) $\$ 11,000,000$ incomes, $\$ 68,000,000$; banking, $\$ 12,000,000$; stamps, $\$ 15,000$, 000 . We pay an average of $\$ 1604$ currency, or $\$ 1146$ in gold, for every man, woman, and child in the country, while our public deltt averages per capita $\$ 74$ 28. The worst-taxed country (ours excepted) in the world, Great Britain, pays $\$ 1092$, with a public debt of $\$ 125$ per capita. France pays $\$ 797$, and Austria but $\$ 527$. The ratio of taxes to property with us is almost 4 per cent. In Great Britain it is nine tenths of one per cent.


In respect to the tariff, it is shown that the average of duties is now 48.58 per cent, and 43.19 per cent on everything imported, not excepting gold : a very high average of rates but so distributed in many cases as to tax our industry oppressively for its raw materials, while admitting the products of competing foreign industry on terms favorable to the for eigner and ruinous to ourselves. The increase of imports for 1866 above all previous years, is frightful: $\$ 437,638,060$ against an average of a bout $\$ 300,000,000$ for the seven pre ceding years, and an increase of over $\$ 200,000,000$ from 1865. At the same time a table of exports is presented, showing the falling off in most of the leading branches specified, to be from fifty to screnty fice and even eighty five per cent. In the shipping business, thee same disastrous picture presents itself.


Contraction of the currency is forcibly advocated. The circulating medium does not advance in the same ratio with the exchanges which it serves to carry on. In the State of New York, in the ton years from 1850 to 1860, the capital of banks increased 101 per cent, loans and discounts 75 per cent deposits 113 per cent, and specie 141 per cent; while the cir culation increased only 15 per cent. Before the war, the
creation of currency in most of the States was free from any creation of currency in most of the States was free from any
serious restraint. Speaking generally, therefore, the people of the United States had all the circulating medium which they required or would receive. And how much was it? Un der this free system the utmost ever called for (and that in the fevered summer solstice of 1857) was less than two hundred and fifteen millions. Now the existing circulation exceeds scven hundred millions. The retaining of the present amount of currency in circulation tends to increase no business except what is speculative, and to check the very development which is expected to prove remedial of the excess. But we must refer the reader to the report itself for the full argument and the answers to all objections.
We reluctantly forego republishing Mr. Wells' masterly argument with the producers of crude commodities, that their interest, with that of all classes, demands the encouragement of manufacturing industries around them. The report must We close with ar itself. It is unanswe interest, which every one of either sex will read.
dvance in prices



## AMERICAN BREECH-LOADERS IN EUROPE.

Bewne, Switzerland, Dec. 3, 1806.
Permit me to tell you some things officially about gun matters in Europe, feeling that you will be interested in any thing which concerns the introduction or adoption of Ameri can breech-loaders in European countries. I was present at a trial of arms in the month of October last before the Com mission appointed by this Government to select guns for adoption, and found there Remington's, Spencer's, a variety of American systems for the transformation of muzzle-loaders also a number of Swiss models for the same purpose, and some English (including the Snider), German and Prussian patterns, also the French Chassepot gun; in all some forty different arms: I presented the Winchester repeating rifle, formerly the "Henry." The final result of the trial and ex amination is, that the Federal Assembly, which meets to-day is recommended by the Commission and the Military Depart ment, to order for this Government the Winchester rifle for the entire army, 101,722 , which with transformed muzzle loaders will give the country some 200,000 lreech-loaders, and in the hands of such riflemen as abound in this country, the Swiss army will be a terrible foe to meet. By the term " en tire army " is meant all except the militia, who are furnished with the old transformed guns: the Winchester is adopted as a principle for the army, as a new arm. The report of the Commission on the trial to which I have alluded, gives the Winchester rifle the first place as regards accuracy of fire rapidity, convenience in handling and freedom from liability to derangement of mechanism under the severest tests; and states broadly that it excelled all other rifles; and in ac curacy, the results it gave were fifty per cent better than they had ever oltaince with their best muzzle-loaders. The following figures give you some idea of the firing, which, it should be borne in mind, was done by firing from the shoulder but resting the barrel on a stand, and with ordinary open military sights. At 300 paces, 30 successive shots, majority in a circle of 8 inches; at 400 paces, 30 successive shots, majority in a circle of 12 inches; at 600 paces, 31 snccessive shots, majority in a circle of 20 inches; at 800 paces, 40 successive shots, majority in a circle of 23 inches; at 1000 paces, 40 suc cessive shots, majority in a circle of 48 inches.
The rifle was loaded and fired from the magazine 15 times n 41 seconds, including time of loading ; and used as a single loader, they found it could be handled with more facility than any other arm; in fact, taking the Prussian position for firing from the hip, the soldier need not look at his gun to load and fire it, but can constantly keep his eyes upon his enemy.
As an instance of the expertness of some of the Swiss riflemen, I would say that I have seen one of them with the Win chester military rifle, fire off-hand ten successive shots 583 yards, and the average variation of the shots on the rget was only twelve inches from the center. The Chassepot gun, of which so much has been said, is no more nor less than another needle-gun, and the inventor whose nameit bears, and who is a member of the French Artillery Examining Board, claims only the idea of inserting on the breechpin behind the cartridge, a disk of india-rubber, which ex. pands by force of the explosion of the charge, so as to pre vent the gas from escaping behind. Notwithstanding the reported adoption of this gun by the French, I know that they are even more interested to see new arms now than evex before, and to my personal knowledge have not yet settled upon any model of that arm, as satisfactory.

The papers contain various rumors of the adoption of various arms by different governments; but, as far as I can learn from offisial nources, they are entitled to very little credit.

Henry A. Citapin.

## UNDERGROUND RAILWAYs.

Ensworthe, England, Dec. 7, 1866.
Messrs. Editers :--I have no practical engineering knowledge, therefore I must claim your indulgence if my note is somewhat confused. I had prepared a letter for your perusal on the subject of underground railways, but postponed sending railway, and all the disagreeables which the underground against this mode of conveyance I soon found to be entirely
groundless. Nothing could possibly be more comfortable, agreeable, or perfect in its modus operandi, and I am certain every one in New York will enjoy this mode of transportation as much as we do here,
When the smoke and steamand breath of passengers were talked about, the idea occurred to me that the first two were readily removable by running the trains on two parallel lines on an incline, and by so weighting the descending one as to make it bring $u_{1}$, the ascending carriages. Through telegraphic communication the required weight could be easily determined at looth termini and at the intermediate stations.
There is nothing new in this mode of movement. In Brazil the system is followed, and an ascent of some 5,000 feet is surmounted by a series of zigzag inclines, and as the distances underground are short, the two sets of trains, united by a wire rope of one inch diameter, running round a drum or some such contrivance, with cramps to stop or check the trains, would operate satisfactorily, and if so, an enormous saving in engines and coal would be effected.
I venture to forward this suggestion to you, but whether it can be turned to any account I must leave others to determine. I cannot refrain from expressing the gratification I continue to derive from the perusal of your excellent hebdomidal.

Thonas inele, M. D,

## (Elitorial \$ummary.

Societe d' Acclimation.-This is a French association de voted to the arts of rearing and naturalizing foreign species. The encouragement of birds is one of their useful and amiable hobbies. Artificial nests arc made a study, with such suc cess, that the feathered tribes are said to accept the aid of
man and willingly domesticate themselves in the habitations man and willingly domesticate themselves in the habitations the protection of insectivorous lirds, carry on this reverse sort of "bird-nesting" extensively. Certain species of birds settle from preference, as every child knows, in halitations provided ly man ; and there is reason to suppose that if all received the inviolable lospitality accorded to the red.breast and martin, it would be as gratefully accepted and repaid with music and beauty and lug-catcling. There is, in fact a remarkable affinity between the better nature of birds and of man. It has been observed that birds develop the gift of song only under the influence of human society. The calls of the wild lirds of those vast solitudes which man has never civilized, are not, so far as we have ever learned, melo-
dious, but consist in general of single notes, mostly sharp and dious, but consist in general of single notes, mostiy sharp and
shrill. Many insectivorous birds prefer for their the hollows of decayed trees. A gentleman of Vevay has united the picturesque with the useful, by interspersing such trees among those of his orchards. He has done this fo twenty-five years, and has his tenements always filled, and his grounds swept clear of caterpillars.
Antiquarian Discoverv--A Cornish journal tells a marvelous tale of a discovery by some workmen engaged in sink ing a slaft at the Garden Tin Mine in Morvalh, of a perfect pillar about eight inches in diameter, standing in the solid rock, and very different in its composition from the surround ing granite; and, stranger still, at the base of this pillar
they have come upon what they descrive as a wheel of the same material. The true composition of the supposed fossils is not referred to, but they seem probably to consist of some kind of columnar rock. If they were remains of art they would of necessity lave belonged to a pre-Adamite race Perhaps the fanciful resemblances observed may serve, as others have before them, to encourage in some credulous spec ulatists the notion of a fossil antiquity of man.
Oll in Boilers.--The interesting investigation given in a ate number of the Scientific Ameitican, of the foaming of boilers, is illustrated by an item in the French papers. A phenomenon analogous to foaming has become very troublesome on certain railroads in Belgium, where water is obtained for the locomotives from the discharge of collieries. At the pressure of six or seven atmospheres, the water is said to mix with the steam and escape through the valves in the form of mist, with such rapidity that the feed pumps are unable to maintain the supply, and the fires have to be drawn correspondence between this theory and that of our contribcorreepondence between this theory an
utor above referred to, will be noticed.

Education in New Yorik.--The amount of money appropriated in this State to public schools, during the year past to 15,664 teachers. Of 931,000 children in the State, wetween 6 to 15,664 teachers. Of 931,000 children in the State, between 6
and 17 years, 919,000 , or nearly 99 per cent, attended the schools-some portion, however, being outside these ages The average attendance daily was over 43 per cent the largest ever reported. It is proposed and expected to create in the legislature this winter a Metropolitan Board of Instruction for the city of New York, to replace the ignorant corrupt and disgraceful body into which our elective com mission has degencrated.
The "Grint Eastern."-The French company who have chartered the Great Eastern as a tender to the Great Exhi bition, are to pay, it is said, about $\$ 57,000$ for the year, beside a share of the fitting up amounting to about $\$ 133,000$, making $\$ 190,000$ in all. Six hundred men are now employed on this work, and the ship is to be ready to proceed to New York on the 5th of March, and to return on her first trip early in April. The price of passage for the round trip will be $\$ 190$ -will settle the "rent." She will run from Brest or Cher bourg,

Tinctures are solutions of vegetable and animal drugs, and sometimes of mineral subsiances, in spirituous liquids. The spirit nost commonly employed is proofspirit: some. times rectified spirit is used, and eccasionally ther. Ammonia is sometimes conjoined with the spirit, in which case the solution is terned an ammoniated tincture. Rectified spirit is alcolol, with 16 per cent of water, and its specific gravity is 838. Proof-spiritis composed of 5 parts of rectified spirit mixed with 3 parts of water, the resulting compound containing 47.5 per cent of water, specific gravity 920 . The choice between proof and rectified spirit depends on their respective solvent powers over the active principles of the drugs employed.
1s 1866 the expenses of the city of Paris amounted to $\$ 46$, 000,000 . In return for this seemingly large expenditure, the Parisians had the cleanest and best governed city in the world, together with an astonishing development of great improvements, in the opening of broad spacious streets, and in the erection of splendid public buildings. New York city ex pends about $\$ 18,000,000$, and gets in return dirty streets, a brutalized swindling political ring, and no improvement that are worth mentioning. During the past ten year enough money has betn stolen from our burdened tax-payers, to have furnished this city with museums, art galleries, monu ments, etc., that would have attracted the attention of the
whole world.

Peat and Petroleum.--A method of applying petroleum as fuel for locomotives, has been patented by a Mr. Gartshore of Dundas, C. W. It is rumored that the Great Western Railway propose to try it.-The new arrangement for burn ing peat in locomotives has been adopted by that company which has entered into a contract for considerable quantities of the fuel.-The oil mining is not all bubble, as slown by the receipts at Pittsburg in the first eleven months of 1866, and reported at nearly a million and a half of barrels, or mor than double the receipts of the corresponding months of 1865.
A smplese device has been patented in England for disinfect ing and deodorizing the efluvia from sewers, drains and sinks. It consists of a wire screen filled with charcoal or other
disinfectants, and placed disinfectants, and placed so as to occupy the only outlet for
the noxious gases, and compel them to pass through it. The same contrivance may also be placed in the rain pipes, so a to pass all the rainfall from the roofs through the disinfect ant into the sewers. The London Board of Works adopted this plan during the late visitation of cholera ; with what effect has not been reported.
Direct Export of Petroleun.-It is manifestly cheaper to export petroleum by itself, in vessels where it can neither en
danger nor injure lcss hazardous and more delicate merchand danger nor injure less hazardous and more delicate merchand ize. So the Erie exporters believe, and have formed a com pany for direct transportation of the oil from that port to Europe. A fleet of vessels of 400 tons is to be employed carrying 2,500 barrels each, and making three trips a year The saving in freight is estimated at two dollars per barrel.

IllinoIs at Paris.-The Illinois Central Railroad Compan has exerted itself with praiseworthy liberality to place an ex and will make a good tling of it. Being proprietor of vast grants of land on its line, the company will "coin money" from Europe by showing up the rich soil in bottles, with the tall corn, the matchless grain, the spontaneous pork, and the sweet sorghum in all stages of its growth and manufacture.
The Thllow Tree.-The product of this tree, which is a great article of commerce in the northern part of China, gives an excellent light, free from smoke and smell. It is prepared rom the seeds. The tree is very prolific and rapid in growth, and yields a valuable wood, as well as a dye from the leaves.
In the government plantations on which it has been introduced lately in India, trees eight years old from the seed ar now six feet in circumference.
Professor h. Dussauce, Chemist, U. S. Commissioner to he Paris Exposition, wishes to communicate with exhibtors, as he desires, in connection with his position, to ob tain authentic information concerning the Exposition any one
may contemplate making at Paris. This information is to be may contemplate making at Paris. This information is to be used in the report he will make upon the subject of Ame
industry. He can lee addressed at New Lebanon, N. Y.

Rows of strong-growing evergreens, such as pine, cedar and spruce, especially the beautiful tree last named, are equally useful and ornamental during the cold winters of our climate. Their rich and thick green, mantled with ermine, ance charms the eye and protects the home of man from he severity of the winds Judiciously disposed, they will save a large proportion of the fuel and doctor's bill.

Coffee Gas.--If ground coffee be mixed with cold water, a gas is evoked about equal in volume to the coffee; and if mixed in a closed bottle, filling it, the gas will burst the re ceptacle. M. Babinet, who observed the fact, does not mention the composition or properties of the gas. Will some of our chemists examine it?
Wr have received some samples of cassimeres manufac tured by the Willamette Woolen Manufacturing Company, Salem, Oregon. The prices range from $\$ 130$ to $\$ 175$ per yard, and are pronounced by those familiar with the trade excellent.

THE Dunn Edge-tool Company of West Waterville Lave re cently occupied a large new factory, in which their production will be incr
dozen axes.

Whave Corrents of Atru-The Celorado Transoript notices the phenomenon of remarkably warm currents of air from the southwest, which cross the valleys of the Vasquez Fork and other streams, during cold weather, affording a striking con trast to the cold atmosphere of the surrounding prairies, ex trast to the cold atmosphere of the surrounding prairies, ex
tending as far north as $44^{\circ}$ in Montana Territory, and sensilly affecting the climate and productions on the Tongue, Wind, Big Horn and Rosebud Rivers. The natural supposition that they come from a warmer climate, to the southwest, is rejected on the ground that snow-covered ranges of mountains inter vene, over the tops of which the warm air of the south would be lifted by its rarefying temperature. Can any of our phil osophers explain it?
Turpentine from Petroledm.-Since the pine product of North Carolina was suppressed by the civil war, we have missed our old convenience for paint and light, and come into possession of one still more disagreeable in its odor and effects. But recent scientific experiments in England, it is said, have proved that turpentine can be extracted from petroleum by a safe and cheap process, at one third of the old price of the Carolina article. Perhaps the manufacture of turpen tine from the pine may prove to be one of the things per manently abolished, though indirectly, by the war.
artificial Sile.-In noting the process of resolving the silk fiber into the original gum from which the insect spins it (see Scientific American, vol. XVI., page 4), the conjecture occurred to us that the same substance might yet be obtained direct from vegetable nature and spun without the aid of the silkworn. We thought it too visionary an idea to mention, at the time, but we have since seen the statement that an other Frencliman, one Lucien Tracol, has found means to realize it. His process is not disclosed. Still another, M Brunet, is said to have succeeded in spinning silk from the fiber of the mulberry bark.
Makin Steel Ratis Cheaper. - A method has been adopted of uniting iron and steel in the construction of rails, so as to obtain the advantages of steel on the faces, while making the stem mainly of the cheaper metal. It has been found impracticable to weld the two satisfactorily, and this difficulty is now obviated by connecting the two steel faces by a thin steel plate, like the letter H ; thus making a complete rail of steel, except that the stem is slight-a sort of seleton stem-reinforced with a sufficient thickness of iron rolled on each side to givethenecessary strength and stifness.

A Long Speech.-Messrs. Little, Brown \& Co., of Boston, are now fublishing the works of Edmund Burke-ten vol umes having been issued. Two of these volumes are filled with the clarges and speech against Warren Hastings, Gov ernor of India. The charges embrace 325 pages, and the speech covers 615 pages, and appears not to have been concluded in the volume before us. The orator must have tired out the patience of his hearers. The trial, however, lasted some seven years.

The new textile lately discovered in Nevada, is closely sim lar to hemp, but has a stronger and finer fiber, and a much onger staple. In proportion to the wood, the fiber also is more abundant, and can be more readily separated than flax or hemp. The plant grows in large quantities in the Humbold Valley, but is capable of being cultivated in our North ern and Eastern States.
Glyconine.-A mixture of four ounces of the yolk of egge, with five ounces of pure glycerin, forms a preparation for soothing the irritation resulting from burns. The compound orms a sort of varnish, protecting the surface of the skin rom the action of the air, and can be easily washed off when desired.
An English inventor proposes to use potash as an suxiliary in the reduction of limestone, producing a caustic alkali of special virtue as a disinfectant wash and a preserva tive of stone and metals. He also claims the use of the carbontc oxide thus liberated, for the conversion of iron into steel, nder Bessemer's patent, and also for adding to the value of substances intended for manures.
Pins and Pencils.-Thirteen millions of black lead pencils are made annually in Keswick, England, alone. Nuremberg exports, annually, twenty millions of Faber's lead pencils. Fifteen million pins go daily, nobody knows where, from English hands.

Parafrine Preservina.--Immerse fresh meat in paraffine, a temperature of 240 degrees, long enough to effect a concentration of the juices and expel the air to the extent of its expansion. Then cover the meat with a coating of paraffine, to exclude the air.

The bakers of London have made arrangements to issue a paper called "The Staff of Life." An organ of sound morals. science and art, in bread making, is a desideratum among erican bakers, and might be useful in many other ways.

The parrott Gun Casb. - The suit of Mr. Treadwell, against the Parrott gun patent of which we noticed the points, has been dismissed by Judge Nelson, confirming Mr. Parrott's title as the original inventor.

Chear Rougr Parnt.-Hydraulic cement, six parts; fine beach sand, two parts; salt, one part ; mixed with water
the consistency of cream, and applied to a rough surface

The sugar crop of Liberia-a settlement almost left for dead, not many years ago-is estimated at $4,211,200$ lbs. for 1866, of which $2,000,000$ will be exported.

