CULTIVATION OF SUGAR BEET

Where it Can Be Done Successfully in This Country.

RESULTS OF AN OFFICIAL INVESTIGATION

Capable of Adding Immensely to the National Wealth-Summary of a Special Report.

beet sugar industry in the United States, this point the report states; The information contained in the report is

United States in 1897, 45 per cent was beet sugar in the united States in 1897, 45 per cent was beet ditions of success must be carefully studied, all the difficulties in the way of success must be intimately investigated and surfollows that the percentage of beet sugar in mounted, and ample capital, coupled with imported has year to the account of the sugar to the sugar in the sugar in the assurance must not give way to enthusise the carefully studied, all the difficulties in the way of success must be carefully studied, all the difficulties in the way of success must be intimately investigated and surfollows that the percentage of beet sugar in the superior was to the company requires 200 feet in a distance of three and a half miles horse power for ten hours a day, he must be exact. This part of the necessarily pay for her hours, or 7,200 horse power could be performed easily. But the elevator hours, while he can use but 2,000 horse shaft is a very different metter. The sumfining tent of the superior was a surface of three and a half miles horse power for ten hours a day, he must be exact. This part of the necessarily pay for hours, or 7,200 horse power could be performed easily. But the elevator hours, while he can use but 2,000 horse shaft is a very different metter. The sumfining tent of the company requires 200 feet in a distance of three and a half miles horse power for ten hours a day, he must be exact. This part of the horse power for the hours would present no novel features and twenty-four hours, or 7,200 horse power could be performed easily. But the elevator hours, were nearly herizontal, rising contractions of three and a half miles.

sugar crops, it is manifestly of the first importance that the selection of localities for the production of sugar beets should be most carefully and judiciously made. To do volving upon the department.

Money and Time Well Spent.

"The facts and figures, as briefly predepartment, has been such as to severely ous data showing an excess of that yield. order of congress in an edition sufficient to afford this department, for its own distribudom, make for the use of its own members."

investigations conducted by the Department | sugar is low. of Agriculture for many years in the study of sugar-producing plants and the methods of manufacturing sugar in the United report says: "It is evident that one of the States were suspended by order of Secretary first things to be considered, after the soil took charge of the Department of Agriculture, with the inauguration of President plant susceptible to climatic conditions. At McKinley, his attention was called to the importance of carrying on further investigations in reference to the culture of sugarbeets and the manufacture of sugar from them. Secretary Wilson was not willing to take anybody's word on the subject, so he made a careful investigation himself. As a result he directed that the investigation into the subject be immediately resumed and prosecuted under the most approved scientific information on the subject. Thereupo arrangements were made with a sugar beet company to accept a quantity of sugar beet seeds for the purpose of carrying on expert-ments. As rapidly as possible the seeds were sent to different parts of the United States interested in the subject, special attention being given to distributing the seed in those locations where the theoretical conditions for the production of sugar were

Packages were sent directly to the addreeses of persons in different parts of the country and large quantities of seed were distributed through the media of agricultural | phyll cells and sunlight, it is found that stations, boards of trade, business men's associations and others particularly interested in the culture. So far as was possible the co-operation of the agricultural experimen station was secured, it being deemed advisable to conduct the experiment in each state under the direct auspices of the state authorities. According to the report it was only when such co-operation could not be obtained, or where preference was shown for direct communication with the Department of Agriculture, that the experiments were conducted directly under the auspices of the department.

Dangers to Be Avoided.

It seems that one of the great dangers to be avoided in the sugar beet industry is the formation of hasty conclusions in regard to the proper localities for the production of the sugar best. Often, without any study whatever of the climatic conditions or of the character of the soil, efforts are made to build large and expensive factories, which, as often as not, have to be abondoned on account of having been wrongly located. The studies which have been made heretofore in regard to the climatic conditions have been of such a nature as to locate, in a general way, the areas in the United States suitable for the culture of the

It has been found, in general, that the coast valleys of California and large areas in Dregon and Washington, certain parts of the Dakotas and Nebraska, localities in

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Minnesota, Iowa, Wisconsin and Michigan, THE FIELD OF ELECTRICITY New York, present favorable conditions for augar beet culture. But in the regions thus broadly intimated there are certain re- Utility of Storage Batteries in Distributing beet, and it is only these restricted areas to which we must look for success. The fact that in one locality, for instance, the report says good sugar beets can be pro- MARKED REDUCTION IN OPERATING COST duced would be no warrant whatever for assuming that all parts of that state were An Industry, if Properly Conducted, equally suitable for this purpose. What is Increased the of Electricity on War true of one state may be applied to every

one of the states mentioned. Sugar beets have also been raised in other sections of the United States, notably in New England. New Jersey, Delaware and

now imported into the United States can be than twelve months should be allowed, and produced upon 1,000,000 acres devoted to the even in this time it can only be accomplished under experienced technical con-

this requires that the sections of the country ous sources by the department it was learned best adapted to the growth of this valuable that the chief variation in the results obcrop should be definitely determined. This tailed was accounted for in the way the termination I conceive a duty clearly de- soil was prepared for the season. In very few cases was a sub-soil plough used and most of the beets which were evidently grown in soil of insufficient depth. In some cases where the exact directions for cultisented to your attention, emittently justify. vation were carried out the character of the in my oninion, the devotion of time, money beets received by the department chemist, and talenes on the part of this department | Dr. H. W. Wiley, showed in marked conto the development of this important indus- trast to the others and also showed the abtry. They also explain the widespread pop-ular interest in this subject, expression; of ods of agriculture for their product on. Dr. which reach us from every side and from Wiley says that he is accustomed to look all quarters of the country. The demand for a farmers' bulletin on the subject of the sugar beet, prepared last year by the chemsugar beet, preparement, both from members impossible to secure a higher yield and of of congress for distribution to their con-beets of good saccharine quality, yet it is stituents and from correspondence of the so rare as to throw doubt upon miscellanetax our limited appropriation for this class
of publication. Nearly 130,000 copies of this
bulletin have already been distributed and
States which is not capable of growing a the demand appears to be unabated. These fair article of sugar beets. Even in the facts, I believe, warrant the recommenda- far south beets having a fair amount of tion I have the honor to make in regard to sugar have been produced and with good this report, namely, that it be printed by toppage; but when the competition of the toprage; but when the competition of the world is to be met only those parts of the country where the soil and climate are escountry where the soil and climate are estion, at least 20,000 copies, apart from the pectally favorable can be expected to comallotment which congress may, in its wis- pets successfully with the beet sugar indus-

In speaking of the effect of climate upon the growth and culture of sugar beets, the Morton in 1893. When Secretary Wilson liself, in connection with the sugar beet industry is the climate. The sugar beet is a the beginning of its growth the beet plant passing from the germ to the new plant, gine room. the lightest clod. A rain which packs the surface of the soil immediately after germination will sometimes prevent the plant from reaching the light. After the plant is established it requires a considerable quanity of water for its proper growth, and this water must be supplied either by the rainfall of the locality, by irrigation or by subsoil. High temperatures, extending over ong periods of time, are peculiarly injurious to the storing of sugar in the tuber. While the high temperatures may not diminish the tonnage yielded by a field nor apparently produce any injurious effects insofar as the external appearance of the maure plant is concerned, it will be found as a rule that plants grown under such conitions of temperature are less rich in sugar han others grown in a milder climate.

"Since the production of sugar in the leaf f a plant is a joint function of the chlorothe high northern latitudes, where the sumthose of Europe as to render of little value greater celerity is accomplished." the general conclusions which experience has drawn from the effect of climate in the he sugar content of the beet itself. Neveregions far to the north-in fact, so far

Recommended by a Prominent Methodist Minister.

It affords me much pleasure to recom-mend Chamberlain's Colic. Cholera and Di-arrhoea Remedy," says Rev. J. M. Ying-ling, pastor Bedford St. Methodist Protesi-ant church, Cumberland, Md. "I have used t and known others who have done so. have never known it to fail. It is a sure has afterward attempted to ito it by any ours when taken in time."

Rapid Growth of Salmon.

this season, says the Portland Oregonian, is much larger than is generally known. They were hatched in the fall of 1895 and after being marked by cutting off the adipose fin. 1896. The fact of their capture proves that some of the salmon at least return to the river where they were batched in less than four years, the time in which scientific men who have made a study of this matter say that it takes sulmon to mature. As the marked fish were turned out in the spring of 1896, those caught this season have been action would be a more serious matter. arge only a little over two years. The tone caught weighed only ten pounds, the most of those caught since weigh a twenty pounds and one weighed fifty. s paunds. It seams almost to that a salmon should grow to this size in loss then two years and a half, but there can e no doubt that the marked flan caught some of those which were turned out in the use, spring of 180% of pl

Mr. Chesterfield's Own Views. Chicago Pest: "What do you consider oman's most charming age?" she asked.

that he was a 'lovely man.

Electric Power,

hersepower and 2,000 steam horsepower in past; and even though this one were to be two-phase rotary transformers. These are considerably desper, its construction would the tables of foreigners, but now that most

1200 horsepower for one hour, but the cells | Electricity and the Art of Cooking. are made so that the capacity can be increased 2,000 horsepower for an hour. This

tion is believed to have been reduced some 25 per cent and the working force has been reduced by five men."

Electricity on War Ships.

As a result of the naval battle at Santiago, electricity will hereafter be used by the Navy department as the motive power for turrets, ammunition hoists and all auxilis particularly helpless. It cannot lift, in lary machines on board ship not in the en-

Chief Naval Constructor Highborn has tried for several years to secure the adoption of electricity for these purposes, and at last he has succeeded. Some of the turrets and ammunition holats on the Brooklyn and lows are operated by electricity and the others by steam, and the Kearsarge anthe Kentucky are to be equipped entirely with electricity. But in the battleshins electricity has not been adopted for all of

the auxiliaries. In view of the favorable report made on lectricity by Admiral Schley, the captain of the Brooklyn and the turret officers. It is probable that the department will direct that it be used on the latter ships. Admiral Schley, in an official report to the department, says that "in the battle of July 3 the turrets controlled by electricity did better and quicker work and were not as hot as those moved by steam. I would heartily recommend the use of electricity as a motive power for all turrets, ammunition ner days are exceptionally long and the hoists and all auxiliary machines on board nights are correspondingly short, tend to ship, not in the engine rooms. The use of roduce, other conditions being the same, steam for operating the turrets produces beet rich in sugar. The climatic condi- almost insupportable heat in the handling ions of this country are so different from room; with electricity this is avoided and

Captain Cook states that from the experience of his ship with electric motors he is eet sugar producing countries of Europe on "strongly in favor of them for the movement of turrets, ammunition holsts and all heless, it is seen that in Europe the great machines where leaky pipes can be disenters of the beet sugar industry are in pensed with and quick work is required. Reliability is the only element which has earth as to make it impracticable ever to entered into the discussion of electricity verspect in this country to establish the cen- sus steam and in this ship the use of ters of industry on the same parallels of electric motors for the turrets at drill and actual combat has proved more reliable." A board appointed by Captain Cook to report upon the relative efficiency of steam and electrically controlled turrets in the light of the experience of July 3 reports

that it "begged to relterate its unqualified approval of electricity as the power for the turrets. To any one who has turned turret I guns upon a target by electricity and who other means, the contrast is too striking ever to be forgotten. The electric moto and controller give perfect control and The number of marked salmon captured finesse of train to an ideal degree.

The importance of having a safe motor power for the auxiliaries of a ship is rec ognized not only in the United States, but abroad, where electricity is being generally were turned into the rivers in the spring of adopted. Lieutenant W. R. Rush of the Brooklyn, in a report, stated that with steam there is danger of death to everybody in the handling room for a shell cutting a

Electricity for Plows. The use of electricity to operate plows is proposed and may become a feature of twentieth century agriculture. The system suggested is not greatly different from that for steam plowing, which has been tried though it may not be said to be in extensive In the case of steam plowing a gang of plows is drawn across the field by means of a cable operated by a portable engine whereas in the electric system the motor is mounted on the plow and travels with it. The motor acts inon a chain fastened at "The age at which a woman is most each end to traveling anchorages at the charming. he promptly replied boundaries of the field and the chain passes over a sprocket wheel geared to the motor question he answered.

Thus it happened that she always insisted and the plow returns, making a new furrow.

Ships-Electric Motors Solving
Engineering Problems
on the Alps.

An interesting article on the use of The first is to a great execut independent by a line of machinery which will

The first is to a great execut independent by a line of machinery which will

For problem and as a first independent of a line of problem and as a first independent of the work more marked and as a first independent of the work more marked as first independent of the work more marked as a first independent of the work more marked in the compressed are constraint and as a first independent of the work more marked by a line of the compressed are constraint and as a first independent of the work more marked by a line of the compressed are constraint and as a first independent of the work more marked by a line of the compressed are constraint and as a first independent of a line of the work more marked by a line of the compressed are constraint and as a first independent of the work more marked by a line of the compressed are constraint and as a first independent of the work more marked as an a compressed are constraint and as a first independent of the work more marked as an a compressed are constraint and as a first independent of the work more marked and another constraint and as a first independent of the compressed are possed to the work more marked and as a first independent of the compressed are constraint and as a first independent of the compressed are constraint and description and as a first independent of the compressed are compressed and compressed are co The special report on the best sugar indus- Kansas. While there may be areas in the An interesting article on the use of The first is, to a great extent, independent be fixed a set of machinery which will try in the United States submitted to the New England states where beets can be storage batteries by electric railroad com- of the remaining two and is likely to be broak up the rack in small pleass and president by the secretary of agriculture, successfully grown, it appears that the panies, printed in the Railroad Gazette, carried into lumediate examples. It is finely pulseries them. As the material is the Mon. James Wilson, on March 25, and states just named stand in the second rank throws considerable light on a compara- proposed to build a Transcular rand. Iron reduced to powder it will be thrown into the Hon. James Wilson, on March 25, and transmitted to congress by the precident on the interest and in the second rank of beet sugar producing localities. In KanMarch 21, has just been published. The producing localities and a considerable light on a comparatively new feature of electric motive power. Less Houches, a station on the line just a fune about twelve inches in dismimanufactured by the New York Sim.
It controlled by the New York Sim.
It can be the producing localities. In Kantively new feature of electric motive power.
It says:

"According to figures collected by Mr. Dismitted and up the about and up the about and up the about of the pix at the lower extremity of this manufactured therefrom. This, however, Joseph Appleton in 1897 the planes of the pix at the lower extremity of the storage batteries used to this country is about these miles from Chamchange point the fourth of the tourist in the road will be asset of the tourist throws considerable light on a comparatively new feature power.

Less Houches, a station on the line in the lively new feature of the line about twelve inches in distinct and up the about a fix at the lower extremity of this manufactured therefrom. This, however, Joseph Appleton in 1897 the planes of the pix at the lower extremity of the cent view of the united by the United States government to place before the pent of the transfer used to be about twelve inches a full and up the about a fix at the lower extremity of the states."

"According to figure collected by Mr. Disable to a substantial and up the about a fix at the lower extremity of the states."

"According to figure collected by Mr. Disable to a substantial and up the about a fix at the lower extremity of the states."

"According to be about a fix at the The information contained in the report is "If the sugar best industry should sucnot only of interest to those engaged or
about to engage in the collure of sugar
bests, but it brings before the general publimitation contained in the report is

"If the sugar best industry should succeed in the success must come
the weight was about sea lovel, and the other terminus of the like fine said to the outer end of the tunnel.

"If the sugar best industry should succeed in the sountry, the success must come
the weight of the weight of the plates
tuniqual road is to have so altitude of in each corner of the pit will be fixed a
from sharp competition with the same inflar one from which comparisons may be
applied to roads operated by a mable; but
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the substraction of the success must come
to the success must come In matters connected with the industry tions are better understood and where the drawn, the storage battery industry is this particular one is to renemble that which chamber." These pinjons will be furned I) matters connected with the initiality which under approved conditions and carwhich under approved conditions and carried on on a scientific basis, must result in
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climbs Mount Washington, where a huge by elect to thousands of laborers. In his letter actions is a summed to the summer and not by steam, one of the work light messenger houses of the survive in those regions where soil labor. The power however is available waterfalls of the upper Arve being utilized conveying the workmen and material will for the appears of laborers of l During the past five years the people of the United States have product for 1897 was 225.636 tons, the forst product of beet sugar 1,700.607 tons, making the sugar beet. Caim judgment and consumption for that year 2,096.263 tons. This judgment and sober reason must not give way to enthusise the total consumption of sugar in the total consumption of sugar in the sugar beet. Caim judgment and sober reason must not give way to enthusise the total consumption of sugar in the total consumption of sugar in the sugar beet. Caim judgment and sober reason must not give way to enthusise the total consumption of sugar in the sugar beet. Caim judgment and sober reason must not give way to enthusise the power that supplied he would be able to get along with probably half the amount. This just of the sugar beet to sugar the total consumption of sugar in the total consumption of sugar in the total consumption of sugar in the sugar beet. This just of the sugar beet to sugar sugar the sugar sugar the shaft by means of the sugar to tun a tunuel line the side of the sugar to tun a tunuel line the side of the sugar to tun a tunuel line the side of the sugar to tun a tunuel line of the side of the sugar to tun a tunuel line of the side of the sugar to tun a tunuel line of the side of the sugar to tun a tunuel line of the side of the side of the sugar to tun a tunuel line of the side of the sugar to tun a tunuel line of the side of the side of the sugar to tun a tunuel line of the side of the sugar to tun a tunuel line of the side of hours; while he can use but 3,000 horse shaft is a very different metter. The sum. A Place Where Living is Cheap, but follows that the percentage of beet sugar follows that the percentage of beet sugar full follows perseverance, must be enlisted in judicious perseverance, must be less than this, with a storage battery moval of over 100 feet above sea level. The turnel is expected to pay only about one-ported to perseverance, must be enlisted in judicious perseverance, must be enlisted in judicious perseverance, must be less than this, with a storage battery moval of over 100 feet above sea level. The turnel is expected to pay only about one-ported to perseverance, must be enlisted in judicious perseverance, must be less than this, with a storage battery moval of over 100 feet above the sea half the average amount required, as the The vertical shaft which M. Issurver has in battery will furnish approximately the remaining half. The battery, of course, will
see therefore, would have a length of there he says, is the overwhelming pleasar
maining half. The battery, of course, will
see therefore, would have a length of one experiences when once more getting
the charged during the hours when the maThe operation of an elevator is such a shift

Carrie don't three in the Philipping From the information gathered from various sources by the department it was learned that the chief variation in the results obtained was accounted for in the way the This company rups practically all the cars other and more serious problems. Hunwithin the city and has a steam plant dreds of perpendicular shorts have been France or Germany. In peaceful times, capable of delivering about 7,000 electric, suck, for mining and other purposes, in the gone by, to be sure, the industrious Chica-

storage battery plant has a capacity of her's must be excavated from below!

A well known New York restnurateur is was done by means of increasing the size of sectric kitchens become numerous cooks the cells so that places can be added to ab- will have to learn over again. He says: sorb the additional power, This plant They have learned to a sleety just how works in connection with a booster which many minutes are required to book propcompounds the current to any desired exterly, by means of coal or gas ranges, any The battery takes care of all the dish ordered, but the use of electric heat fuctuations and peaks. The rapid fluctua- brings up new and strange problems. Cooks tions cannot be seen on the slide, as the apparently are in awe of a heat produced curve was plotted from observations taken althout coals or blaze-the mystery of the very fifteen minutes, which will not show thing puzzles them and disturbs that peace the rapid variations. It is alternately of mind and evenness of movement so charging and discharging during the day- necessary for the artist. If electricity ime, as the lead varies, but receives its full largely invades the domain of the kitchen charge at night from the converters. It is cooks will have to study the profession from apparent how large a proportion of the load | an entirely new point of view to realize the battery, thereby greatly in reasing the aving change in cooking methods is true, it wandering around in the kitchen halfcovers only half the situation. Cooks who om, make for the use of its own members."

It seems, according to the report, that the avestigations conducted by the Department sugar is low.

This is especially true when the price of actual saving, but so far the coal consumptions, and our cook got but 40 cents from them.

Living was very theap in Manila during the successfully with the best sugar industry plant has not been from them.

Living was very the price of manipulation of coal or gas heat will, at successfully with the best sugar industry plant has not been from them.

Living was very theap in Manila during manipulation of coal or gas heat will, at successfully with the best sugar industry plant has not been from them.

Living was very the price of manipulation of coal or gas heat will, at successfully with the best sugar industry plant has not been from them.

Living was very the provide the dinner for four successfully with the best sugar industry plant has not been from them.

Living was very the provide the dinner for four successfully with the best sugar industry plant has not been from them.

Living was very the provide the dinner for four successfully with the best sugar industry plant has not been from them.

Living was very the provide the dinner for four successfully with the best successfully with ity of electric heat. But the discomfiture cill only be temporary. They will soon s infinitely superior in every respect. It sert and fruit-quite a repast for so small gives an accuracy of calculation and a cer- a sum. ainty of results never before possible. All | The milk available in the Philippines ever goes wrong. It is adjusted to cook leular time and when the hour arrives the inging of a bell gives warning that the ness bakery may be destroyed. cooking is completed. Moreover, ments cooked by electricity have a flavor and a bad no hesitation in drinking plenty

ittain by any other method.

Engineering Problems. correspondent of Invention supplies these details of the proposed procedure: A room will be out in the rock ten feet wide and twelve feet long. Within this will be placed a movable car, or "rising chamfrom which the work of driving the haft upwards wift be carried on. This chamber will be built of strong steel places and will be in two stories, each of which will be divided into two compariments by strong steel doors, and be nearly seven feet in height. Upon the upper floor will be duced the rock-boring muchinery, which will be driven by compressed air and pierce a great many holes in the rock in a very These bores will be charged with dynamite, to be exploded in the usual manner. Here is one of the first difficulties. It would take up too much time if the chamber had to be lowered out of the way every time a blast was made, and even if it were lowered the danger from falling fragments of rock from over a mile in height would be terrible and unavoidable. To overcome this, the engineer proposes that the rock-boring machinery should work on only one side at a time. After a sufficlent number of holes had been driven the boring machine would be moved over to the other side of the pit, being placed upon

HELPS

WHERE

OTHERS

FAIL

The current is supplied to the motor for two steel door would then be raised to protect and the door are strained in trains to fell them were been wires carried across the field on wither side it from flying places of rock. To enten the of the place in contact with troffey wheels. Triuminia blown out by the blast a series in the extense around the bumpdaries of the farm angles of about 4k degrees, which would would need and supplies the current from a central allow the gases from the explasion to be caver house and anchor cars are provided, to pass through, but retain all the pieces of Frie and of from their world of with reals of wire as that the marhinery rook. The gratings would be proposed by tasendes of brushwood. All being ready, the is and 40

From Geneval a railread already extends partment of the chamber, and the "sh ta" on myster-area a a mouthesecordy direction, up the valley of would be fired. As soon as the notions he Arve, through Clusis to St. Gervais, a goals had been dispelled by a blast from | For broken surfaces, some, histor brok, thosault, easy, thereach did-

Writing in the Medical News, Joseph Earle Stevens gives an idea of the bill of fare the sejourner in the Philippines has to put up with. The chief advantage of dining there, he says, is the overwhelming pleasure one experiences when once more getting man in his little garden rated delicacies to supplied with high-tension alternating correct from the Niagara Falls plant. The chers were due from the top M. Issar- with their dollars to China, tomatoes, lettuce, beans and corn are probably scarce Chi ken and eggs are two great Philippin standing and always seem to form wornout bedlacks, shipped up from Australia, likewise has transual bright place to fill, but mution and potatoes have to con over from China. Fruits Manila has ! plenty, and what with mangers, manger trens, oranges, bananas, pincapples, grapfruits and melens selling for a rong, the

market is well supplied. Ail meat in Manila and other parts of the blands is easen fresh killed, since ite fails to preserve lish, flesh or fowl, and game and fowl are always sold at the markets alive It is not to be denied that the tough, strings taste to this portion of the menu is far from desirable, but necessity seems to know no law, and one must accustom himself almost people. And we would have such dishes as soup, fish, chops and peas, roast chicken find that of the two methods the new one with potatoes, beans and corn, salad des-

ule of thumb and guesswork is eliminated; rarely comes from the Jersey cow, but is a he process becomes strictly scientific. The | product of the "carabac," or water buffalo legree and quantity of heat needed, say, for and tastes somewhat oily. Oaimeal and usting a joint of a certain size, are known | cream are things unknown and the former solutely, subject to nicely balanced modi- its now said to be too heating for a ho hoations, based on differences of texture of climate diet. Chocolate seems to comlesh and other conditions, and the results | under the same category and even mangotre invariably uniform. There is no heating | -the fruit with the smooth, turpenti and foul-scenting of the kitchen, no taste—have to be eschewed by him who suf tring or charring. The habits of the fers from prickly-heat. Bread, too, is no ook may be uncertain, but the electric stove yesten so much as toust and the foreigne almost always insists on getting his that he joint or dish it contains within a par- tosimila" in order that any lurking microb which the bread may have absorbed durin urrent is shut off automatically and the | the process of manufacture in the little Chi As the Manila water supply was good distinction which is said to be impossible to Adam's ale and never found it disagree with me. In fact, some of the old stage say a long glass of water just after one get ip in the morning doeth good like a med ine, and suffice it to say, it seemed to work

lke a charm in my case. In conclusion, as to food, it must be said that in peaceful times Manila fare is no ad, though it lacks variety, and such arti los as one gets in the ordinary menu at th lub or in the restaurants seem amply supply the demands made on the new arriv by the climate. Heavy or heating foods such as carmeal, baked beans, plum pud lings, chocolate and the like are best lef slone, and in my mind the less alcohol one takes the better. Claret and seltzer make one of the cleanest drinks to be imagined and one better than a brandy and soda or umething of the same strong makeup.

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wheels so as to be slid easily. The solid sight. The page is in constant vibra-

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