FEFERET FVENING NEWS: SATURDAY, MARCH 17, 1906.

MONEY IN WATER THE BIGGEST IRRIGATION PROJECT ON THE CONTINENT BE-ING CARRIED OUT BY CANADIANS.

(Special Correspondence of the Descret News by Frank G. Carpenters)

(Copyrighted by Frank G. Carpenter.) | lands and in the traffic which will conte ALGARY. Alberta.=By all odds | the contry.

the biggest irrigation project on the North American continent is.

18

lands of the United States did not the first 10,000 acres, now ready for amount to 10,000,000 acres. By this scheine Canada will redeem a million and a half acres of semi-desort, and that by private panties without gove ernment aid. The work has been undertaken by the Canadian Pacific railroad, which has exchanged a part of its land grant for 3,009,000 acres lying between here and Medicine Hat. O.' this, 1,500,000 acres will be put under

this, 1,500,000 acress will be put onder water, and the balance will be sold to the irrigated land owners for pasture and mixed farming. This tract of ir-rigated land is almost as great as all the irrigated innd of Colorado or Call-fornia. It is more than twice that of Utah, Idaho or Wyoming and many times that of any other western state. This work is now going on One

times that of any other western state. This work is now going on. One hundled and ten thousand acres are now ready for the turning on of the water, and double that amount will be added this year. The project will be handled in blocks of 1,000,000 acres each, and it will be continued until the whole tract is redeemed and setticd. Altogether, it means sublying homos Altogether, it means supplying homes to something like 30,000 families, and with the towns and other industries which will be built up along the line it ultimately means the addition of about 300,000 people to Canada's population.

IN THE GREAT AMERICAN DESERT.

The lands to be redeemed are a part of what was once known as the Great American Desert. This runs northward through the western part of the Unit-ed States and on into Canada. There is more water here than in our trib-utary country, but there are dry seasons, which make the lands unfit for ordinary farming, although winter wheat is now being raised on much of wheat is now being raised on much of it. For the past fifteen years the Can-adian government has had engineers at work taking the levels, measuring the streams and locating reservoirs. From such surveys it has been found that there are 70,000,000 acres of semi-arid land which need irrigation occa-sionally if they are to be used for farming. The government engineers estimate that 9,000,000 acres can easily he reclaimed, and that they will have an unfailing supply of water from the Saskatchewan and its tributaries if the proper works are made.

proper works are made. The land of the Canadian Pacific The land of the Canadian Pacific scheme lies in a solid block on both sides of the railroad between Calgary and Medicine Hat. It is flat or slightly rolling prairie, and is now used for grazing. The strip is 130 miles long, running back for some miles on each side of the track. The water is to come from the Bow river, a beautiful moun-tain stream. It will be fed by other rivers, which flow northward from the United States through the Belly and Bow into the Saskatchewan and thence on to Hudson's bay.

A BIG IRRIGATION DITCH.

The Bow river flows by Calgary. I drove out today to look at the ditches, already excavated, and to examine the Irrigation project as far as it is com-pleted. Taking carriages, we drove for miles over the prairie, riding at times along the embankments of the main canal, which is 60 feet wide at the bot-tom, 10 feet deep and takes from the Bay semething like 2000 callons of AFTER OUR FARMERS.

of Alberta. In 1992 all the irrigated Americans, The rairoad has given over h has already made big money selling tracts of spring wheat immigrants from Minnesota, Dakots immigrants from Minnesota, Dakota, Towa, Illinois and other states. These American agonts have colonization of-faces at Calgary, and they are formu-iating schemes by which they expect to canvasg the irrigated sections of the United States to induce our good farm-ers to come here and buy these lands as fast as they are opened up. Said one of the syndicate to me the other day:

day: "We will work those parts of the Union just as a book-publishing house works its territory. Our selling agents will go from farm to farm like the can-verser does selling books, and will in-duce such as have money to buy this hand on installments. If they are in-terested, we will flood them with liter-ature, and will probably bring them to Canada at reduced rates of trans-pertation to show them what we have to sell."

In the meantime the lands are offer-ed at several times the price asked for the spring wheat lands farther north and east; but the Canadians claim that they are cheap on account of the wa-ter, which insures steady crops year after year, regardless of seasons.

INTRODUCED BY "MORMONS."

The practical possibility of an Irrl-gated Canada was suggested by the "Mormons." There are about 10,000 of them now living on irrigated lands near Lethbridge, between here and the United States boundary. They have es-tablished towns, have built up a beet sugar factory with a capital of \$1,000,-000, have one flour mill, which is now turning out a carload of flour daily, and they are, altogether, one of the most thriving peoples of the new Canmost thriving peoples of the new Canada.

These "Mormons" produced more than 1,000,000 bushels of wheat last last than 1,000,000 bushels of wheat last year, and they are now shipping flour direct to Japan and China. They come-from the irrigated states of Utah and Idaho. They farm on tracts of about 80 acres each, and I am told that they raise two or three times as much on such farms as can be raised in the pondirigated sections.

such farms as can be raised in the non-irrigated sections. During my stay in Canada I have visited this "Mormon" country. It is reached by the line of the Alberta Rallway and Irrigation company, which is used largefy to carry coal from Lethbridge down to Montana. The lands are almost dead flat, and are cut up by canals fed by the St. Mary's river. Seventy-five thousand acres are althe

Seventy-five thousand acres are already under cultivation and the rail-way and irrigation company above reway and irrigation company above re-ferred to has altogether almost 1,000,-000 acres yet to redeem. The com-pany received a concession for a part of these lands for opening up the coal mines and building the railroad, and looked upon them as fitted only for grazing until the "Mormons" came in and proposed to irrigate them. As it is, the irrigation works are only five-years old, and they have the town of Raymond, which has a population of 2,000, situated in the heart of them and smaller settlements along the line of the railroad.

of the railroad. I talked with Peter N. Naismith, the I talked with company, and C. A. manager of the company, and C. A. Magrath, the land commissioner, about its character and possibilities. They

How Fifteen Hundred Thousand Acres of Desert Will be Redeemed-A Look at the Ditches and Talk With the Engineers-The Mormons of Canada and Their Beet Sugar Works-St. Mary's Lakes-Shall Montana or Alber a Use Their Waters-A Live International Question.





ST. MARY'S LAKE IN MONTANA.

Photographed Specially for the Saturday News-Shall it Furnish Water for Canadians or Americans.

breakfast table. When the machine stops all that is necessary is to take out these white grains, run them through a drier, and put them in bags ready for sale. The factory produces enough sugar every year to give one pound to every man, woman and child in Canada and leave much to spare. existence of 'Mormonism' in Utah the existence of 'Mormonism' in Utah and alleges that polygamy exists. It may be so in the United States, but it is not so here. As for me, I can get a certificate from my church that I am a staunch Episcopalian, but I find the 'Mormons' good enough for me to live among. They are interested in poli-tics, although they have no union of church and state. They are thrifty and altogether they are excellent citizens."

A "MORMON" SUGAR MILL.

A "MORMON" SUGAR MILL. I visited the "Mormon" sugar mill. It is situated just outside Kaymond in the midst of beet fields, covering hun-dreds of acres. It is now making 100.-000 pounds of sugar daily, and is pay-ing dividends of s per cent. The com-pany has altogether about 200,000 acres, upon some of which beets are raised. Other parts are devoted to stock are now feeding upon them. The factory has the best of modern machinery. The beets are carried by water from the shed where they are unloaded, being washed on the way. They are next lifted to the top of the factory in buckets running on an end-tess chain, and fail from there into cutters filled with knives, which slice them up so that they look like little them up so that they look like little

lakes, and that an amicable arrange-ment may be expected. There is no question but that Uncle Sam wants his share of the St. Mary's lakes. In the reclamation projects, ap-proved by the secretary of the interior, as per the bulletin published last Sep-tember, \$1,000,000 has been set aside for reclaiming 200,000 acres along the Milk river, and there are several schemes outlined by our geological survey, all of which include the use of these lakes. One is to make a 50-foot dam one-half mile long at the lakes, and then cut a canal from there into Cut Bank creek, a tributary of the Marias river, and by another dam and a second canal to throw the water into the Milk river. This would give water enough for the reclamation for 200,000 acres of land in the upper Milk River valley, near the Great Northern ratiroad. In addition to this there are other schemes which would lead to the re-demption of thousands of acres more, the water coming chiefly from St. SHALL CANADA USE OUR WATER. In connection with these irrigated lands of southern Alberta a rather se-rious international question has arisen.

the water coming chiefly from St. Mary's lakes. In the meantime the Canadians' say that the Milk river runs for 106 miles or more through Canada, before it goes back into the United States, and that if the Americans disturb their irriga.

takes, and that an amicable arrange-

BEARERS OF SAUSAGES TO THE KAISER.



Some time during January of every year a deputation from his imperial majesty's own sausage maker waits on the kaiser to beg his acceptance of an offering of his favorite delicacies. Two lackeys attired in court costume bear the toothsome dainties and a third is provided with an address to be delivered into the emperor's own hand. Wilhelm is not especially fond of addresses other than his own, but he is inordinately fond of sausages of this particular kind.



Bow something like 20,000 gallons of Bow something like 20,000 gallons of water every second. At many places the men were working, and the scenes were much like those I saw on the Pan-ema canal. There were hundreds of horses scooping up the prairie, there were long trainloads of excavated ma-terial moving on the temporary tracks fr. a one place to another. The soil is for an one place to another. The soil is harder to work than that of the Culebra cut. Culebra is made of a shaly rock, and a single blast may loosen many tons. Here the earth is a conglomerate of sticky clay and great boulders which have a consistency something like soit have a consistency something like soft taffy or half worked putty. It gives lit-tle resistance and some parts have to be blasted over and over again. The stuff is of such a nature that the steam shovels cannot work in it unless it is loosened, so that the cost of excavation is great.

Is great. I have talked with Mr. J. S. Dennis, the manager of this irrigation project and also with the civil engineer in charge of it. He tells me that they have taken out about 4,000,000 cubic yards, which, as I figure it, would be just about enough to fill a line of two-horse wagons, at a ton to the wagon, reach-ing clear around the world. Altogether, 20,000,000 cubic yards will have to be ex-cavated before the whole area is under water, and the engineers say that the cost of this will be just about \$6,000,000. It is an enormous undertaking, but it will pay in the increased value of the will pay in the increased value of the

ell me the lands are excellent and that tell me the lands are excellent and that they are being rapidly settled. Mr. Magrath, while not a "Mormon" him-self, has represented these people in the territorial legislature, and has known them from the time they came to Canada. He says they make ex-cellent citizens and are conforming to cellent citizens and are conforming to the Canadian laws in every respect. I asked him how they acted in regard to plural marriages. He replied:

NO POLYGAMY IN CANADA.

"The Canadian 'Mormons' are monegamists. We have some citizens who were polygamists in Utah, but they brought but one family each to this country. Shortly after their arrival they sent delegates to Ottawa to ask if they might bring their plural wives provided no further noural marriages provided no further plural marriages were made. Sir John Macdonald, who were made. Sir John Macdonald, who was then premier, replied in the nega-tive, saying that, while he was glad to have the 'Mormons' come to Cana-da, they could not live there unless they obeyed the laws. As a result, the extra wives remained where they were."

"I do not believe there is any polyg-amy in Canada," continued Mr. Ma-grath. "The mounted police keep a close tab on the 'Mormons,' and if there were plural marriages we should surely know. Now and then some person in eastern Canada denounces

them up so that they look like little pieces of celery. The sliced beets are now dropped The shired beets are now dropped into round tanks, where they are so treated by fusion that all the juice in them containing the sugar comes out. This is carried into great boliers, con-sisting of miles of pipe, running back-ward and forward one over the other, ward and forward one over the other, surrounded by steam. The Juice passes through pipe after pipe and boller after boller until it has traveled back and forth something like ten miles. All this time it is bathed in steam. It becomes thicker and thicker as it goes on, and at the end of its journey it is a syrup, which, after be-ing purified, is known as mulatto or

sugar molasses. The sugar molasses is reduced to sugar in great basins, which are whirled around at a thousand revolu-tions to the minute. The basins have walls of fine brass screens, against which the sugar molasses is thrown. The dark particles of the liquid pass through the screen, leaving the white sugar crystals behind. As the whirl-ing goes on the liquid, brown at first, grows lighter and lighter, and soon turns from a chocolate to the whitest of snow. The walls of brass, coated of snow. The walls of brass, coated with it look like the whitest of porce-lain china; but if you touch them with your hand it comes back coated with

Within a short distance of St. Mary's lakes and not more than 27 miles from St. Mary's river, flows the north fork st. Mary's river, hows the borth fork of the Milk river, which runs north-ward into Canada, and then, turning south, flows for hundreds of miles through the United States into the Mis-souri and on into the Guif of Mexico. souri and on into the Guif of Mexico. By making a canal inside our boundary from the St. Mary's to the north fork of the Milk river the waters of these lakes could be thrown into the Milk river and be finally used to irrigate lands in nothern and eastern Montana, and especially the lands which lie above the Fort Belknap Indian reservation.

WOULD REDEEM AMERICAN DES-ERTS.

Such a canal would give enough water to redeem thousands of acres of good American soil, and the citizens of Montana claim that it ought to be so used. They say that the waters fail in the mountains of the United States, and they ought to water the United States The Canadians naturally object. They say that the water having fallen in our say that the water having fallen in our country is no reason that we should keepfit; for it may have exaporated from Canada, and that they have a common right to it since it has been flowing through its present course for thousands of years. I understand that the two governments are now in con-sultation regarding the use of these sugar as fine as any on an American

works here, the waters of that river might be materially diminished by being spread over Canadian lands. FRANK G. CARPENTER:

CURED CONSUMPTION

Mrs. B. W Evans, Charwater, Kan., writes: "My husband lay sick for three months. The doctors said he had quick consumption. We procured a bottle of Ballard's Horehound Syrup, and it cured him. That was six years ago and since then we have always kept a bottle in the house. We cannot do without it. For coughs and colds it has ne equal." So, soc and \$1.00. Sold by Z. C. M. I. Drug Dept., 112 and 114 South Main Street. B

COLONIST RATE

Daily, Feb. 14th to April 6th.

Via O. S. L. and U. P. Lines, to Mexico City and many other points. Rates \$44.00. See agents for further particulars. City Ticket Office, 201 Main St.

part whatever therein, the whole object being to help people find suitable life partners. Mr. Stead, who has not for a long time created a sensation, has been for years hatching this scheme, and has at last succeeded in interesting his friends in it. He believes such an in-stitution is badly needed and that if managed in the proper way and with the proper influences should have ex-cellent results. So far the matter is only in the embryo stage, though it is now definitely arranged no one will be admitted without reference and intro-ductions, and there will be a special eye kept on fortune hunters, for there is no actual reason why they should be ex-cluded, the founders wisely believing in the theory "Don't marry for money, but quickly.

financial asset.

cluded, the founders wisely believing in the theory "Don't marry for money, but go where money is." As the bureau is for all classes who come under the beading ladies and gentlemen in the received sense of the word, it will prob-ably have considerable clientelle. At all events, that portion of the public-a larger one than is usually believed to exist-who now give their natronage. larger one than is usually believed to exist--who now give their patronage to institutions which are notorious in the gentle art of swindling and hum-bug, will find in the new bureau not only principle but apparently the pros-nect desired. Mr. Stead's naive iden is sure to excite the interest which is always attached to anything he does. The king, who like Queen Victorih, is keenly sympathetic with matchmaking, and the kaiser have both given encour-aging words to Mr. Stead in his latest venture. LADY MARY.



Cream Balm is placed into the nostrils, spreads over the membrane and is absorbed. Relief is inmediate and a cure follows. It is not drying-does not produce sneezing. Large Size, 50 cents at Drug-gists or by mail; Trial Size, 10 cents.

ELY BROTHERS, 56 Warren Street, New York



