DESERET EVENING NEWS: SATURDAY DECEMBER 19, 1903.

RECORD OF UTAH'S GREAT SUGAR INDUSTRY

RECORD FOR 1903.

Garland Factory 4,000,000 lbs. Logan Factory Io,000,000 lbs

OMPUTED at 5 cents per pound, these figures mean that the income from the sugar industry in Utah this year amounts to two and a half million dollars. Since we began producing sugar in 1891, our total output has amounted to about 195,000,000 pounds, worth at 5 cents, \$9,750,000.

The leaps and bounds by which the production of sugar from beets has increased, has brought us face to face with the vital question as to where we are to find consumers for our great supply. "Markets! markets! markets!" is now the cry we hear ascending from the factories throughout Utah and Idaho, and the cry wil be louder than ever next year. Utah, Idaho, Montana and Wyoming, or those portions of them supplied by us, consume only 40,000,000 pounds of sugar annually. The Utah and Idaho factories will next year turn out not less than 80,000,000 pounds, which means that half the product must go to the east, where, not only must the freight be paid, but the market prices rule the year round much lower than in the intermountain region. This, too, without figuring on the immense amount of California sugar which overflows from its own markets into the more profitable ones hereabouts.

It thus becomes evident that the future of the sugar industry must depend largely upon economical operation, the utilization of biproducts, and the taking advantage, (as The Utah Sugar company has done, in crecting a power plant) of all the opportunities that present themselves for increasing what may be called side earnings. This view of the case is expressed in the interview with Manager T. R. Cutler, given below.



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The above interesting picture shows the new 600 ton plant of The Utah Sugar company at Garland, Boxelder Co., Utah, which has just been completed. The picture is an interesting one, inasmuch as it is taken from the top of the beet sheds, which lie in the foreground, the factory showing below the sheds. The elevation of the front part of the picture is due to the fact that the beet sheds are 17 feet high, all filled with beets, so that the person walking on the beets shown in the foreground, has under his feet an area amounting in weight to 16,500 tons. All were dumped in their places from cars run upon the elevated wagon and car tracks from the beet sheds, the rails being just visible through the beets. Adjoining the factory on the north is the warehouse where the sugar is stored as soon as it is turned out.

heavy distribution of cash, but the any except the surplus waters, such waters will be of the greatest benefit to the land, as only dry farming has been practised up to this time, and the dry seasons of past years have often been factory has consumed about two thou-sand five hundred tons of lime rock disastrous.

disastrous. The conservation of the waters of Bear river is a problem yet to be solv-ed, and the Sugar compay has been ex-ploring and surveying the whole of this year with a view to eventually turning its attention to that important measure. If an average could be obtained of the maximum and minimum flow of Bear river even in the driest year. It would be sufficient to irrigate all the lands in Boxelder county that are now not otherwise irrigated, and also run the power plant to its utmost capacity.

power plant to its utmost capacity. While the company realizes the im-portance of the conservation of the Bear river waters, it realizes also that such systems are very expensive in their construction, and is therefore cautious about using money for this purpose, inasmuch as the government has appropriated large sums of money to be used in that direction.

to be used in that direction. The future of the Bear River valley depends entirely upon this water sys-tem, and its lands being some of the most fartile in the world, there is no doubt in the minds of those best posted, that the problems connected with the irrigation system will be solved in the mage future. iear future

AMALGAMATED SUGAR CO.

The operations of the Amalgamated Sugar company for the year 1903 have been very satisfactory to the manage-ment. The year's output of sugar from the three factories situated at Ogden. Logan and Le Grande will amount to about 22,500,000 pounds of sugar. The total acreage planted for the three fac-tories was 8,800 acres of beets, which produced 97,000 tons of beets. The operating expenses incurred at the three factories will be \$130,000, at each factory about 200 employes have been engaged in all the departments. The Ogden sugar factory com-menced its campaign Sept. 4, 1903, and The operations of the Amalgamated

The Ogden sugar factory com-menced its campaign Sept. 4, 1903, and will close the run Jan. 1, 1904. There were 4,000 acres of beets planted for in the second of the second

which have been hauled by wagon from the Providence canyon. All of which shows at the warchouse-100,000 bags -10,000,000 pounds--of beautiful gran---10,000,000 pounds-of beautiful gran-ulated sugar. The benefits, too, extend to the cat-ile and sheep interests; for already there are 1,500 steers, and about 2,000 sheep at the factory being fattened on the pulp which nets the sugar com-pany about \$10,000, even at a nominal when our ton

price per ton

THE LEWISTON FACTORY.

The Lewiston factory will not be built the coming year, but it will be erected soon after and will prove one of the most profitable of all the sugar plants in the west.

SUPT. PINGREE'S REPORT.

The Ogden sugar factory is now run-The Ogden sugar factory is now run-ning out its sixth year crop of sugar beets. It will be about Jan. 16, 1904, be-fore the beets of this season will be worked up. At first this factory re-ceived beets from Davis, Weber, Mor-gan, Boxelder and Cache counties, but the best three years we have reached gan, Boxelder and Cache counties, but the last three years we have received them north of Furmington and south of Brigham and a few from Morgan county; in this district or tract of land there are 16 canning factories which work up immense quantities of toma-toes, peas and fruit of different kinds, molecular immense of hors. employing immense numbers of boys, girls, men and women; 12 of these caning factories have been built since the sugar factory was built, but not-withstanding these conditions the Og-den factory is making the largest run of beets it has had since its existence; the farmers take their early land and land located in places where currents of air keep off the early and late frosts to raise their tomatoes, and the later land and land where the early and late frosts appear, to raise their sugar beets; of course there are exceptions to this rule, but they are working to it. Notwithstanding all these factories and the immense shipment of vegeta-hies and produce of different kinds on all four railroads leaving Ogden, north, enst, south and west, even this year we



This is the first season that the Utah Sugar company has gone into the beet industry extensively in the Bear River valley. Last season by way of experi-ment about 1,000 acres were planted and shipped to the Lehi factory. and shipped to the Lehi factory. The digging season has just closed and we have harvested in this valley something like 2,200 acres, which gave us about 17,000 tons. The beets were of a very high quality, polarizing on the average of 16.8 with 84 per cent purity, and at the late Irrigation con-gress, held at Ogden, the bests from this district were awarded the first this district were awarded the first prize, and there were on exhibition at this time samples of beets from every locality in the west, where the beet industry is established.

To realize the great facilities this place possesses as a farming locality, a person must visit the valley and ob-serve the beautiful rich solls and enjoy is bound of the place of the price its beneficient climate. Since the intro-duction of the beet industry into the vzlley, a great many families have moved in and with but few exceptions are well satisfied with their new pos-

The most serious question we have vet to overcome in the raising of beets n the Bear River valley, is an ade-uate amount of labor, during the

adjust itself in the next couple of years by settlers coming in from all parts of the state of Utah, and when we can secure the requisite help, there is no reason why we could not raise in



HALLAND CONTRACTOR

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THE UTAH SUGAR COMPANY'S POWER PLANT.

This picture shows the power plant of The Utah Sugar Co., constructed at the mouth of the Bear River canyon, about three miles from Collinston. The building is located on the east side of the Bear river, and the picture shows the pipe line referred to below, in the course of construction. The powerhouse is so built that eventually it will contain machinery for 4,000 horsepower electrical energy. At present only two machines of 750 K. W. energy are installed. These machines will generate 2,400 horsepower at their maximum ,and this power is now being furnished to the Utah Light & Power company, the pole line being built by the Utah Sugar company, a distance of 45 miles to Ogden, connecting there with the Utah Light & Power company's line to Salt Lake City.

rights of way for railroad oxiten and wagon roads and make other ratior

teenth campaign of the Utah Sugar company's factory, located at Lehi; the central plant, with the three auxilliary stations have run the entire season very smoothly without any serious break downs.

The number of tons of beets sliced at the main plant and the three cutting stations is as follows, which is the largest tonnage ever worked in one campaign since the factory was erect-

Lehi	5. A	67	**	۰.	٠	* 3	1	٠	ħ	r.	K)	10	ł,	Ľ.	9	1	1	1	001004	A close of
Spring	111	e	10	80	ł.	58	ŧ,		×,	ē.	x.	ŧΞ.	K	£?	1	1	7	ň	40,108	ROUN
Dingha	m	- A P	111	10	£1	10						1.1	- 24	- 1					10,200	101115
Provo	89	лì,	• •		a	•	e.		*	ŝ	÷	6Ŕ	X	4	1	i.k	k	×	13,320	rous

The sugar manufactured at this one factory this year is more than the con-sumption of the whole state of Utah, the amount sacked being about 23,-000,000 pounds, and of the very finest quality

While the factory with its sub-stations, has sliced as high as 1.278 tons and sacked 3,275 bags of fine granulated sugar in one day's operation of 24 hours ,the average tons of beets sliced, and sugar sacked were 1.020 and 2.421

Legrand, Ore.)

(2 Co.'s)

199.

. 59

23

(Estimated)

1801

1892

1803

1894

1805

1896

1807

1898

1899

1000

1001

1902

1903

-OTAH'S SUGAR RECORD.

(Including the branch of the Amalgamated Sugar Company at

guarantees. THE GARLAND PLANT.

The Utah Sugar company's factory just completed at Garland, Box der county, Fiah, is one of the most modern and up-to-date plants now in op-

The buildings consist of arructural steel, brick and cement, taaking them absolutely fire-proof, and are a most imagnificent sight to behold. This factory commenced operations Wednesday, Dec. 9, and the results ob-

Wednesday, Die, 5, and the transferrory tained thus far are very satisfactory and encouraging. The mill under the present conditions, has a capacity for slicing 600 tons of bests each 24 hours, and manufacturing, a corresponding amount of while granulated sugar. For the first compaign of this fac-tory something like 17,000 trais of bests were harvested in the Bear River val-

y, and the contents of the bests polar-ie very high; notwithstanding some of hem have been in the bins for 60 days,

they are keeping splendidly, with but very little deterioration. When the contract was let for the erection of this plant it was fully contemplated that the factory would be andy for operation not later than Oct. 5, but for various reasons this was respectively. The Utab Sugar company has just de-cided to install another pumping station at Leland, Utab county. Utab, from which the juice of the bests will be pumped to the central plant at Lebi. through c four-inch ripe, and will be operated exactly the same as the other ers of that locality will raise each sea-son for five consecutive years, 4000

Pounds Produced.

1.112.800

1,325,600

4.100.553

5.492.592

7.030.000

9,130,000

3,676,700

9,999,850

16,385,875

17,500,000

27,000,000

42,000,000

50,000,000

About Dec. 20, 1903, will close the thir-teenth campaign of the Utah Sugar company's factory, located at Lehi; acre of beets; will furnish sufficient will secure wagon roads and make other minor course delayed the installing of the machinery; there were many other dehave caused through the overpressure of business, which hindered the rapid progess planned: however, taking every-ning into consideration, the factory ommenced operations as soon as could easonably have been hoped for. SUPERINTENDENT AUSTIN'S

REPORT.

George Austin, agricultural superin endent of the Utah Sugar company, avalates the following information: The beet industry in Utah has been using very rapid strides ever shoe he first crop was plauted, and by way

of comparison we give below the num-ber of acres planted and tons produced the Lehi factory cach season, since the introduction of the industry into the

Brets. 9.816 26.500 41,111 3.40050,123 7.000 9.000

8,168 During the season of 1807, the very low townage was due to a blight on the beets that year, which we never pre-viously experienced, nor have we had y repatitions since

or the season just past, we contract-brough the Lebi factory, with 1,695 as, which is an average per con-or of a fraction less than five and taking the entire yield it lives us an inversige tonnage of a little ess than 12 tons; the farmers received 4.75 per ton for all the breas delivered nto the sheds of the company with reight allowance in localities where

eight allowance in jocalities where cis were delivered by rail. Since the farmers have become ac-ainted with the methods of raising gar beets they go into the business centifically, and it is very commend. note their excellent methods and great pride they take in raising the Diverting a little from the subject. Diverting a little from the subject, may not be amiss to state that Lehi ulmost bocked upon as the parent of a beet industry, as it was the first mility in America to raise beets suc-safully under the system of firiga-m. The farmers also have done so lendhily, and obtained so thoroughly a required knowledge in this line, it their services are much sought of

that their services are much sought a key, and today, there are experts fro the vicinity of the Leht plant, in almost every raised.

is no reason why we could not raise in the Bear River valley, each season, 10,000 acres of beets. While this is practically the first season beets were ever grown in the Bear River valley, Hon, John P. Holmgreen, who resides in the vicinity of Bear River City, un-doubted by paiged the heaviest tonpage In the vicinity of Bear circles (16), and doubtedly raised the heaviest tonnage of beets (abd which were of a fair qual-ity) ever grown in the intermountain region, he having hurvested 39 tons per acre on eight acres of land, and there are numerous pieces of land in the vicinity of the starting for 20 to are numerous pieces of land to valley that would average from 20 to 25 tons per acre. One reason that the tonnage is somewhat light, taking the general average this season, is that a mistake was made in planting beets in lands that had previously produced grain, all the way from five to 12 crops, consecutively, without any fertilizing, and of course this reduced the tonnage to a point or a great number of acres, to where the crop was unprofitable to the farm-In the future this will be avoided, there are hundreds of acres of al-

fails already plowed up, and the land is being put is good condition prepara-tory to the planting of the seed next spring. We have demonstrated that fulfa will produce excellent ton where sufficient water can be had for reigntion purposes, and the contents d purity of the sugar are of a very fair quality.

BEET SEED INDUSTRY.

We have harvested this season in Lehl, about 25,000 pounds of beet seed and something like 40,000 pounds in the and something like 40,000 pounds in the Boar River valley, making in all 650 sucks of 100 pounds each, which will plant next season 4,300 acres. We have also selected both in Utah county and in Bear River valley, a great many tons of high quality beets, to be plant-ed next spring as "mothers," and as this seed has proven to be equal to any of the foreign seeds, it is our intention to go into the business more extensive-

The refuse or pulp from the beets, is also becoming quite an industry of it-celf, and were it not that we always give the beet contractor the privilege give the beel contractor the privilege of buying this pulp first, we could read-ily dispose of it all. This pulp is very fine feed both for cattle and sheep, as a by-product, and cattle will fatten castly on about 100 pounds with 15 pounds of hay per head, daily, the same amount being sufficient for eight

78,822 head of sheep. 58,900 The outlook for the coming sensor 96,910 both for the Lehi and Garland factorie

both for the Lehi and Garland factories is very encouraging. We are in receipt of a givent many letters from farmers in the various localities asking to in-crease their acreage, and with the in-stallation of another pumping station at Lehand. Utah county, where the farmers are promising to raise for five consecutive years, each season 4,000 acres, there is no question that ample beets will be grown to run the Lehi factory at full councily for a good long actory at full capacity for a good long sempaign.

Applications are also coming in for applications are also confing in for-more acreage in Bear River valley and wa estimate at this time that for next reason we will have at least 4,000 acres contracted for the Garland factory.

MANAGER CUTLER'S VIEWS. Summing up the question of the beet

summing up the duration of the order sugar industry in these intermountain states and the possibilities of its ex-tension, I will say: The sugar con-sumption of the United States in 1902 was upwards of 2.500,000 tons, and the production was as follows:

Louisiana	
	9400
Hawall 875	000
Total	463

PIPE CONNECTING THE CANALS.

This cut illustrates the syphon pipe connecting the canals on the east and west sides of the Bear river. This pipe is made of red wood and is \$ feet in diameter, inside measure, the timber being 312 inches thick. This pipe line is constructed so that if the water supply from the east side canal should ever be interrupted, the power plant can be operated by bringing water across from the west side, the elevation of the canals on both sides being identical. The pipe is carried across the river on a sized bridge with concrete abutments. The bridge and the pipe form a magnificent piece of engineering work, and the cost was about \$50,000,

year more sugar than the whole con-sumption of the State of Utah, the that there will be an output of 10,000,question resolves itself into a problem of economics. To be able to compete of economics. To be able to compete, with prices at the point of distribution, a factory must be supplied with a max-imum tonnage of beets of good quality at a reasonable price: It should have cheap fuel, and be evabled to utilize its by-products and above all, it should be economically managed. This can only be done by operating on a large wale as it is conceded that small facto \$65,000.

scale, as it is conceded that small fac-tories cannot compete, even under the best of conditions, with those of larger aracity

caracity. Seey, Wilson is quite optimistic con-cerning our rapidly developing beet sugar industry to which he is lending every effort possible. He says: "The beet sugar industry is developing sat-isfactorily. In 1896 29.220 tons were made one view and 290 000 tons were istactorily. In 1896 23.220 tons were made, one year ago 220,000 tons were made, Careful estimates put the crop now being worked up at 260,000 tons. This is a more rapid development than has taken place in sugar making with new conditions in any other country. The future of the crop depends upon the admison of economic methods in

The La Grande. Ore., factory hade contracts for 1,000 acres of beets which produced 12,000 tons. The year's output of sugar at the factory was 2,500,000 pounds. There were 200 men employed at the factory this year. The operating expenses were \$20,000. The season's run commenced Sept. 30, and

The adaption of economic methods in field and factory. The growing of seed in the United States of a superior quality is assured, which will result in funch richer beets and a better yield than from imported seed that is never first-class. Heavier tomage per acre will come from bet-ter farming, and greater economy from the intelligent disposition of the by-products. The industry is now well

established. THOMAS R. CUTLER.

THE UTAH SUGAR CO'S

POWER PLANT.

One of the most modern power plants that has been built in the west, is that of the Utah Sugar company, situated at the mouth of the Bear River canyon,

the beet raisers have done well this year, and that the outlook for the year of 1904 is very bright. the power-house having been construct-ed to contain machinery for 4,000 horse-power machines, half of which are now installed. The pole line is run to Ogden and carries 250,000 pounds of No. sugar factory will soon pass into his-tory. By Jap. 1, 1904, the 15,000 tons of beets still on the ground and in the company's sheds, will have been cut into pulp and the plant will close what 1-0 R. & S. copper wire; at Ogden the Utah Light & Power company will make connection and the power will be used in Salt Lake county. No ex-pense has been spared to give efficiency

has been its most successful season. What all this means to Cache Valley of service of service. The Utah Sugar company has been doing some heavy work the past two years to improve the conditions of its canal system, and it is now distribut-ing water on the west side of Bear river to 40,000 acres of land, and has made arrangements with the Hammond Construction company whereby that manufacturing. But the most import-ant fact is, that 41,000 tons of beets istruction company, whereby that a is constructing and will operate a al to irrigate the lands on the east e, the intention being to reach neyville in time for the next irrigat-season, and while the Sugar comcallty where beets are being parts of the world. Prices have steadl-by decreased, and when it is remember- with the people on the east side for share in the general benefits of such pounds of sugar.

ed that Lehi alone will produce this the Ogden factory, which produced have our biggest run; the farmers have learned to raise beets by getting down to better farming and fertilizing their land, planting and working their beets 1000 pounds of sugar. The Orden fac-tory employs 200 men during the cam-paign season, and the annual expenses for operating the factors will expenses carly, and they find them a crop can be depended upon; the heavies hor is early in the spring before work has come on, and late in the when the harvest is over; no other tory in the state has such cond

AT LOGAN.

contend with as this factory has farmers of Weber county have put to straits to find help to a their crops and care for them the The Logan factory commenced its The Logan factory commenced array run for this year on Sept. 17, and expects to complete it by Jan. 1. 1904. The beet growers planted 3,800 acress of beets for Logan, and received 42,000 the summer; no need of any man, man or boy or girl being idle, for Sugar company and these other e panies find work for all with good tons of beets from that acreage. The expectation is that 10,000,000 pounds of sugar will be produced at that fac-tory, whose operating expense will amount to \$65,000. The same number wages, and in my opinion the prosts for those companies and the Su company as well the farmers and of men were employed at that factory other laborers are bright for the fut JOB PINGREE. as at Ogden.

FALLING OFF AT LA GRANDE. The La Grande, Ore., factory made

CACHE COUNTY BENEFITS.

The third year's run of the Logan

ended Nov. 4

THE GREELEY SUGAR CO.

gamated Sugar Co.

Agricultural Superintendent Amal-

The Greeley Sugar Co, is hargely owned by people in Utab, hence a re-port of its operations for the year 1963 will be of interest to "News" readers. Supt. C. A. Granger to a representative of the "News," who interviewed has hast week, said

season's run commenced sept. so, and
ended Nov. 4.
It is estimated that the three factories will have about 50,000 tons of beet
pulp which is sold for 50 cents per ton, and this year every ton of it has been
purchased by the baget growers, who have learned to appreciate its value
in the fattening of stock.
At all the factories \$4.50 per ton has
been puid for beets. The raising of sugar beets has become one of the leading agricultural industries of Utah, and is gradually improvins. A good price is paid for the beets and the agricultural is are finding that it is one of the most profitable crops they can raise. The management of the west raisers have done well this

northern Colorado, so that now all are working together in perfect harmony and accord. The result is that the districts from which each factory will receive beets will be clearly defined and adhered to, and each factory will be able to secure practically all the beets required for the full season's campaign.

Generally speaking, the growers are very well satisfied, not only with the beet crop, but with the treatment re-ceived at the hands of the sugar com-paries, and the industions are that coived at the hands of the sign -panles, and the indications are that the beet crop is already established as one of their principal resources. The additions and improvements made in the Greeley factory during the

tan only be realized by a little figuring. For instance, it means that the Amal-gamated has paid our farmers about \$185,000 for beets. It means that about \$40,000 has been paid for labor in plant of greater capacity than w theipated. Instead of cutting tons of beets a day, the 700 ton b has often been reached, and it 18 last year, which indicates that better methods are employed by the farmers whose lands are yielding greater re-turns. Not only farmers and laborers share in the general benefits of such worked, from which there will be an out-put of approximately 12,000,090

future