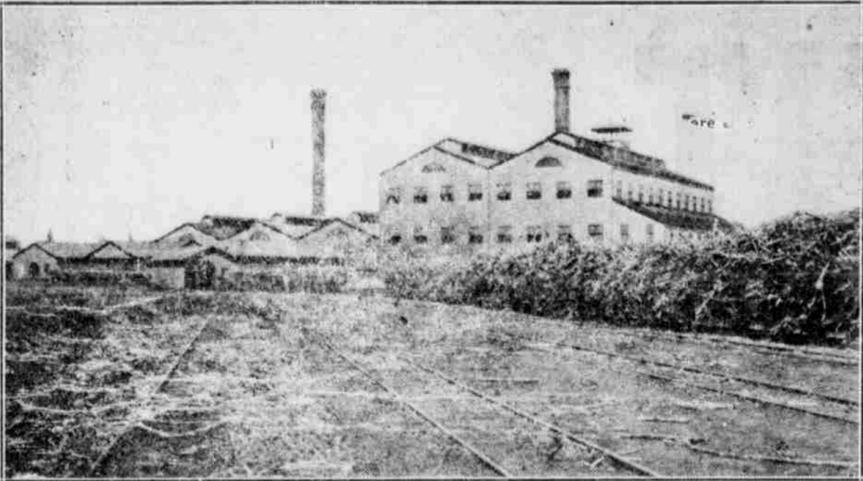


Maui Sugar Factories Set Example For Efficiency and Progressive Management



HAWAIIAN COMMERCIAL AND SUGAR COMPANY MILL AT PUUNENE. THIS FACTORY HAS THE LARGEST OUTTURN OF ANY IN HAWAII AND IN COMPLETENESS AND EFFICIENCY IS WITHOUT RIVAL.

As with the other islands of the Hawaiian group so was it with Maui that sugar cane growing was the first important industry to be undertaken on a large scale, and as it is with the other Islands so also is it with Maui that sugar production continues its greatest industry. In its sugar industry today Maui leads all the other Islands in several respects for it has the largest producer of raws in Hawaii, its plantations produce more sugar each on the average than do those of any other Isle, it has a plantation which is increasing its acreage and expanding so that in time it is likely to take second place, a third member of its group is remarkable for use of by-products and embarkation into other lines than sugar, and all in all it leads its sisters in thoroughness of methods, excellence of equipments and in results secured.

There are seven sugar plantations on Maui and the seven average more than 20,000 tons of production this year although two of them have outturns of 2000 tons or less and a third only about 6000 tons. Such production, too, has come in the face of adverse conditions for the Island as a whole has suffered from dry conditions much of the time since 1917. Essentially its plantations are irrigated and it is from this fact that it was able to overcome the adverse conditions and to produce more than 135,000 tons of raws in 1920 as compared with 132,991 in 1919 and 137,786 in 1918. The largest crop in its history was in 1915 when 160,283 tons were sent away.

During the present season there has been experienced one of the worst and most persistent droughts the Valley Island has ever known. Under the best of circumstances it would be difficult to make anything like an accurate record of the next crop in October and weather conditions now make any attempt at forecasting futile.

All the larger mills on Maui are engaged in overhauling the plants and making greater or less enlargements and betterments of equipment during the period between grinds and each mill presents a busy sight while the sounds emanating from them are more suggestive of boiler factories than sugar manufacturing. It is safe to say that in recoveries from tons of cane ground Maui will continue to lead another year.

HAWAIIAN COMMERCIAL AND SUGAR COMPANY

Leading all the sugar plantations of the Islands in its output is the Hawaiian Commercial and Sugar Company at Puunene and this year it has produced the fourth largest crop in its history. The preliminary figures were 52,000 tons, it was a little later than usual in getting started by reason of late arrival of materials and new equipment and water shortage but it passed its estimate within a shade of ten percent and its figures for the year are, 57,120 tons.

Hawaiian Commercial and Sugar Company of Puunene as it is so commonly called, was the plantation for which the late H. P. Baldwin did perhaps more than any other, much as he did for his Paia plantation. The two went forward together after he acquired what is now Hawaiian Commercial and Sugar Company property.

Race With Spreckels

It was H. P. Baldwin who conceived the idea of carrying water from the distant Nahiku district, and it was he who succeeded in bringing the first ditch water for over twenty miles to the Paia district, in what in its later phase developed into a race with Claus Spreckels and his associates.

Spreckels, always a favorite with King Kalakaua, had secured a license, provided that Baldwin, with an earlier license, did not get his ditch built by a certain time. It seemed impossible that this could be done, but Mr. Baldwin, although handicapped by the loss of an arm and with no means but the most crude for transporting supplies, won the race. It is related of him that an inverted siphon had to be inserted in Maliko Gulch for the purpose of which his native assistants feared to make the ascension. To give them courage, Mr. Baldwin, in spite of his one arm, first made the ascension of the rope and that the Hawaiian workmen then followed.

This water brought from Nahiku was used for what was originally the old Paia plantation, and in the mill

in which H. P. Baldwin had previously lost his arm in the crusher.

In subsequent years Spreckels and his associates attempted to purchase the Baldwin properties in the Paia district, and it is told in a memorandum book written by his son Arthur, an attorney in Cleveland, Ohio, that \$500,000 was the sum it had been decided to accept. The deal failed to go through and in time Baldwin himself acquired the Spreckels' plantation, now known as the Hawaiian Commercial and Sugar Company, thus combining the Baldwin plantations, but as separate properties, located between Wailuku and Makawao.

Welfare Work Pioneer

He also initiated welfare work for the employees, club house, hospitals and schools and other beneficial institutions. On his death Frank F. Baldwin succeeded to its management and he has kept Puunene at the front in production, progress, equipment, results and in kindly interest for the good of its employees, skilled and unskilled.

In a recent issue of Maui News what is going on in the mill between grinds, including the installation of a new quadruple evaporator, was told, as also additions to the pumping plant that are contemplated, the new automobile repair and machine shop, and other details. Its mill is now the equivalent of a 15 roller.

A feature not mentioned heretofore is the bag making machinery which is being installed. Heretofore the company has purchased its containers but is now making its own.

In addition to the up-to-date equipment of the hospital the most modern of X-ray equipment has been secured and a latest model of operating table has been ordered.

Roster of Staff and Force

The roster of officials and department heads follows:
 Manager—F. F. Baldwin.
 Assistant Manager—C. C. Campbell.
 Mill Superintendent—Wm. Lougher.
 Mill Engineer—R. E. Hughes.
 Chemist—J. H. Pratt.
 Electric Power Plant—F. W. Peacock.

Well No. 2—W. S. Mason.
 Head Machinist—A. S. Taylor.
 Pump Superintendent—E. F. Deinger.

Doctors—Dr. F. E. Sawyer, Dr. F. R. Missner, Dr. W. L. Maples.
 Division Overseers—Jas. T. Fantom, D. F. Quill, Jas. Smith, John T. Moir, Jr., Alfred Gerner, H. A. Hansen.

Steam-Plow Engineer—C. Hansen.
 Head Nurse—Mrs. C. J. Beggs.
 Nurses—Miss Pauline Kitchen, Miss Winifred Scott, Miss Maja Hassell.
 Warehouse Foreman—C. E. Chatterton.

Cattle Ranch Manager—Ben Williams.

Head Carpenter—Ed. J. Walsh.
 Cashier—David C. Rattray.
 Office Staff—Wm. McGerrow, A. E. Sayers, R. O. Humphrey, D. H. Young, Stenographer—Mrs. Mason.

PIONEER MILL COMPANY MAY YET RANK SECOND

Pioneer Mill Company, an American Factors plantation, comes second this season for production on Maui but not so in the Islands. However, it

has secured additional acreage which before many years will be producing largely and put the concern at Lahaina up with the very largest producers. Its preliminary estimate for 1920 was 28,500 and its outturn was 29,264. Like other Maui plantations it has been handicapped for the past several years by adverse weather conditions. The company has been true to its name and has pioneered in electrification of its plant and may claim to be leader in the Islands in that respect.

Pumping Plant Excels

The plantation now has three hydro plants with an 850 kilowatt output and a steam plant with a 750 kilowatt output. Later two more hydro plants will be installed. A new pump has been put in at the Kaanapali station to replace one abandoned in 1900 because of the salt content of the water. This pump provides 5,000,000 gallons of water additional every 24 hours, with no further trouble from the salt.

Pioneer Mill Company also has a 12,000,000 gallon electric pump at the Lahaina station built in 1918, that was erected there to replace the old steam pump. The total pumping capacity of the Pioneer plantation now averages 50,000,000 gallons daily.

Under an agreement with the Baldwin Estate, the plantation now gets water from the Honokohau ditch which permitted the development of a new pumping plant at Kahana two miles west of Kaanapali, and to the aid given by this ditch water is attributed the elimination of the salt content formerly in the water from the Kaanapali pumping station.

Much New Work

During the present between grind season a considerable amount of work is going on in the mill the most important of which are a new evaporator and "16-40" centrifugals. A reinforced concrete machine shop has just been completed and a reinforced concrete garage and repair shop is being put in. In addition to this the machinery recently arrived for a new hydro-electrical pump going in at Waihikuli, the work of putting it up to start immediately.

For some time past work on lining of ditches has been in progress and it is expected the Lahaina section will be brought well into shape by the end of next year.

Numerous changes and improvements have been made in the various camps of the company for its plantation laborers and still others are planned and in caring for the welfare of its employee Pioneer Mill Company is in the forward ranks of Hawaii's plantations.

Roster of Staff

Officials and department heads are:
 Manager—Arthur W. Collins.
 Assistant Manager—F. Stark.
 Divisional Overseers—C. Farden, H. Robinson, L. T. Lyman.
 Mill Superintendent—H. S. Walker.
 Chief Engineer—Geo. Crook.
 Civil Engineer—E. T. Gillin.
 Pump Engineer—E. B. Smith.
 Ranch—W. H. Richard.
 Office—G. L. Keeney.
 Lahaina Ice Co.—Wm. Smith.
 Lahaina Store—J. E. Gannon.

(Continued on Page 8.)



Wailuku Sugar Company Mill at Wailuku. This company has been steadily working up to its former record of production ever since the plantation suffered severely from the disastrous flood of December, 1915, which wiped out many of its acres of cane.

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DON'T FAIL TO CALL AT OUR EXHIBIT AT THE FAIR AND SEE THE NEW BEST "SIXTY" TRACKLAYER—ACKNOWLEDGED THE PEER OF MECHANICALLY PERFECT TRACTORS.

A tractor built to withstand the severe work on plantations in the Hawaiian Islands.

Ask The Man Who Owns One.

Following is a partial list of recent purchasers of the latest model BEST Tracklayer, a number of whom have placed repeat orders:

- | | |
|---------------------------------|--------------------------|
| California Packing Corporation | Knudsen Bros. |
| Ewa Plantation Co. | Kohala Sugar Co. |
| Halawa Plantation Co. | Laie Plantation |
| Haleakala Ranch | Laupahoehoe Sugar Co. |
| Hawaiian Canneries Co. | Libby, McNeill & Libby |
| Hawaiian Commercial & Sugar Co. | Lihue Ranch |
| Honolua Ranch | Oahu Sugar Co. |
| Honolulu Plantation Co. | Parker Ranch |
| Honolua Ranch | Oahu Sugar Co. |
| Hutchinson Sugar Plantation | Pepeekeo Sugar Co. |
| Kahuku Plantation Co. | Puakea Plantation |
| Kaiwika Sugar Co. | Waialua Agricultural Co. |

Advance Announcement

The new BEST "20-30" model, built on exactly the same lines as the "Sixty," will be on the market the first of the year. An inquiry will bring complete information regarding this popular sized model.