

WHAT UNCLE SAM DOES TO HELP HAWAII CROPS WILL BE SHOWN AT FAIR

U. S. AGRICULTURAL EXPERIMENT STATION TO EXHIBIT USEFUL WORK

Director J. M. Westgate Outlines What Each of the Four Divisions Will Do in Way of Participation—Gives Graphic Demonstration of Value of Scientific Research to Produce Best Crops—New Pineapple Spray Effects Shown

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One of the divisions of the Hawaii experiment station is labeled "extension." That, translated into common, every-day language, is "publicity."

It is easy to see from that that the station is going to make every effort to attract the attention of every visitor to the Hawaii County Fair to its exhibit.

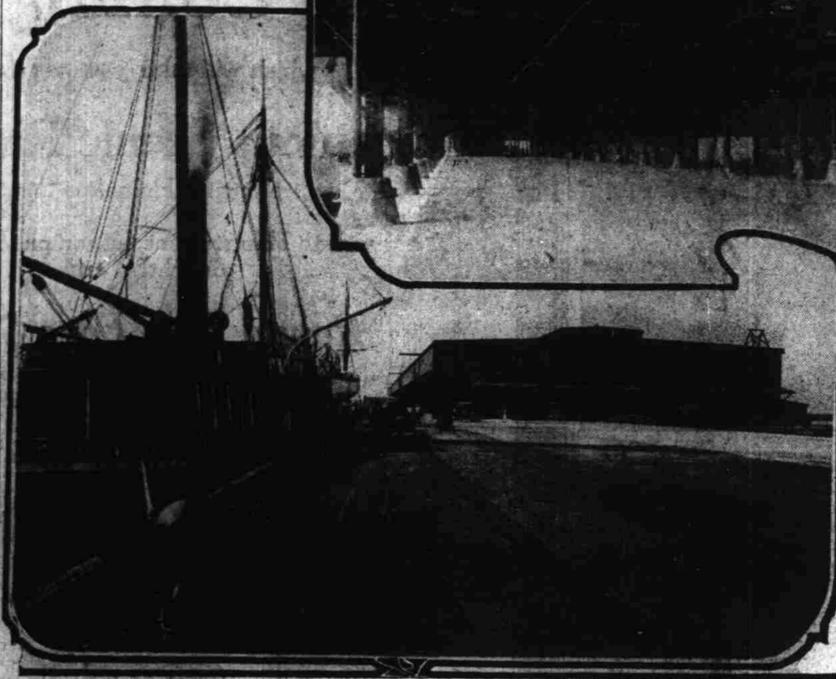
Each of the divisions—extension, territorial marketing, horticultural and chemistry—will have an exhibit that will arouse interest of the passer-by and teach him something when he has stopped to examine it.

A display of pineapples grown on manure-rich soil, treated and untreated, will form perhaps the most interesting exhibit to the general public. Unless they spoil on the way, there will be a group of big, luscious-looking fruit, the finest grown, and beside them a few little runts, red and wizened looking. Nearby will be illuminated colored photographs on glass showing the field from which the two groups were taken, with a long row of the big, healthy pines stretching into the distance and beside it a row of the red, sickly-looking fruits.

Doctored the "Pines"
Below will be a card explaining that the healthy pines looked just like the wizened ones until they were sprayed with sulphate of iron; that the few drops of chemical acted as magic, causing the fruit to develop almost over night.

For those who have mango or avocado trees in the yard, or are cultivating them on a commercial scale, there will be an exposition of the correct way of grafting and budding the trees, with a demonstration of the advantages. Ranged in a row there will be first, a seedling with its dwarfed and unattractive fruit; next

a seedling with a "T" incision in it; then, a seedling with a bud from a pedigreed tree in place; and last a (Continued on page twelve)



A splendid site for the Hawaii County Fair is Kuhio Wharf, Hilo, even with such drawbacks as some distance from the town and almost constant use for water front purposes. It is roomy enough for two fairs. At night it will be well lighted. The photo above shows the interior, with the side opening toward the sea on the left. In the rear, right-hand side, will be the livestock exhibits. The lower photo shows an end of the wharf and an inter-island steamer lying at the dock.

The electrical energy sold in London exclusive of that used for traction, increased from 14,206,900 kilowatt hours in 1894 to 334,442,700 kilowatt hours in 1914.

Two hundred members of the Pittsburg Military Training Association left Pittsburg for the military training camp at Plattsburg, N. Y.,

Kuhio Wharf to House Many Fine Exhibits

MOUNTAIN CLIMBING ON BIG ISLAND HAS MANY INVITING POSSIBILITIES

Valuable Information Given in H. W. Kinney's Book to Those Wishing to Engage in Long "Hikes"—Visits to Mauna Loa, Mauna Kea and Hualalai are Feasible

Mountain climbing on the island of Hawaii is arduous, but with proper precautions, above all, with proper guides, is not particularly dangerous. It is a sport that deserves much wider popularity and some day perhaps the Trail and Mountain Club of Honolulu will develop into a territory wide organization, which will tackle the big Hawaiian peaks, such as the Mazamas, the Sierras, the Mountaineers of Seattle and other famous associations of climbers.

Mauna Loa, Mauna Kea and Hualalai have been much in the public eye lately because of the valuable researches of Prof. W. A. Bryan, who has ascended all three, made studied comparative ages as indicated by geological formations. In a less scientific way Henry Walsworth Kinney, now superintendent of public instruction, made the climbs and later incorporated some of his information thus gained in the little booklet, "The Island of Hawaii."

The chapter on "The Mountain Country" is well worth reproducing. Here it is:

"The mountains of Mauna Kea, Mauna Loa and Hualalai and the highlands surrounding them are comparatively seldom visited, as the journeys to the summits are attended with difficulties, unless the traveler can depend on the ranch stations for assistance. The Puu Oo ranch is ordinarily the starting place for the summit of Mauna Kea, though this mountain may be ascended from almost any side. From Hilo one follows the Kaunaha road to the end of the wagon road at the big flume. Here one should take the first trail left of the last house on the road and take the trail across the lava flow. At about 3500 feet elevation is a cave at the left of the trail with drinking water. The last part of the trail is across grass. From Puu Oo one must take a guide to the summit, the trip from that point to the top and back being made in a day. Near the summit is a lake, as well as a quarry

where the old Hawaiians made stone implements. Snow is generally found near the top.

"The ascent of Mauna Loa is more seldom made as it is more arduous, and as the top can be gained only from a few directions. The Volcano Stables Company prepared a trail, with a camp, which starts near the gate which crosses the Volcano-Kau road east of Kapapala. The trip can be made by autoing to the camp in an afternoon, making the trip from camp to summit and back to camp in a day, returning the following day. It is also possible to make the trip from the Pualehua station, in Kona, to the summit and back to the station in a day.

"The Hualalai mountain is more accessible. The Judd road, which was intended to lead in a straight line from Kona into Hilo, but was abandoned, leads to the Ahua o Umi, where King Umi held the first census. He had the population from each district make a pile of stones, each person depositing a stone, the size of the piles indicating the relative sizes of the population of the districts. A better trail to this point leads from the Pualehua station. It was formerly a wagon road, used for carrying wool to the beach. A short distance below the ahua, north of the Judd road, is a cave with an unfailing water supply. Another trail leads from Kaimaliu, crossing the Judd road a few miles north of the upper road, to the Hualalai summit. It passes several craters. On the north side of the summit is a blowhole, known as the "bottomless pit." Still another trail runs from the Judd road to the summit. It passes a sandy plain which was used by the old Hawaiians for races and other sports. A trip, covering all the points mentioned, can be made in a day. Hawaiian guides can be had at Kaimaliu at from \$2.50 to \$3 a day. All the summits offer splendid views of the entire island, as well as of the other islands in the distance."

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