

**CALLS MT. LASSEN
A MOVING PICTURE**

Government Geologist Describes Activity of Only Active Volcano in the United States.

In a recent bulletin the United States Geological Survey gives a picture of Mount Lassen, the California volcano that has been in eruption since last May. The report of the activities of this, the only active volcano in the United States, was written by J. R. Diller, a Government geologist. Lassen Peak Mr. Diller refers to as a "volcanic moving picture," and he suggests that the smoking mountain may prove to be one of the chief attractions to the tourists who next year will visit the Panama-Pacific Exposition at San Francisco.

"Mount Lassen and Mount Shasta, the beautiful cones so much in evidence to the traveler on the Pacific coast north of San Francisco," Mr. Diller says in his report to the Geological Survey, "are now giving an unfamiliar view in Lassen Peak, which is plainly in view from the railroad for many miles in the Sacramento Valley between Redding and Red Bluff. Lassen Peak, however, stands at the base of the Cascade Range, and it stands between the Sierra Nevada on the south-east and the Klamath Mountains on the north-west. Its lava erupted in past ages reach the Sacramento Valley, on the one side, and on the other form a part of the vast volcanic field, one of the greatest in the world, that stretches far across California, Oregon, Washington and Idaho to the Yellowstone National Park.

"Of all portions of the Cascade Range, Lassen Peak retains the largest remnant of its once vigorous volcanic energy. Oregon and Sappa Hot Springs and Bumpass Hill, on the south, as well as Hot Springs Valley and the boiling mud lake Tartarum, on the southeast, have long attracted the attention not only of Californians, but to some extent of the tourists, to whom the region is growing more accessible every year. To these already established attractions has been added a frequent occurrence of the recent volcanic play of Lassen Peak, the region will take high rank among nature's wonders."

"But what is the nature of this new activity of Lassen? Is it really volcanic? Will it soon dwindle and become wholly extinct or, on the other hand, is it the precursor of a more profound eruption like that of Krakatoa? The excellent photographs that have been taken of the outbreak, especially those by F. M. Willford and the series by B. F. Loomis, of Willford taken from a point six miles northwest of Lassen Peak, leave little doubt in the mind of any one familiar with volcanic phenomena that the outbreak is essentially volcanic. These photographs are strikingly similar to those taken by Johnston in 1854, showing the progress of an eruption in the Lipari Islands, whose volcanic character is well known.

"The eruptions of Lassen Peak began May 29 at 5:30 p. m., with an outbreak of steam which according to Forest Supervisor W. J. Rushing, continued about 20 minutes. It formed an erator in the snow-covered summit of Lassen, about 2 1/2 by 30 feet in extent, and covered the entire snow for a distance of 200 feet with a mantle of dark, wet dust. Harvey Abbey, a forest ranger, visited the scene and reported the facts.

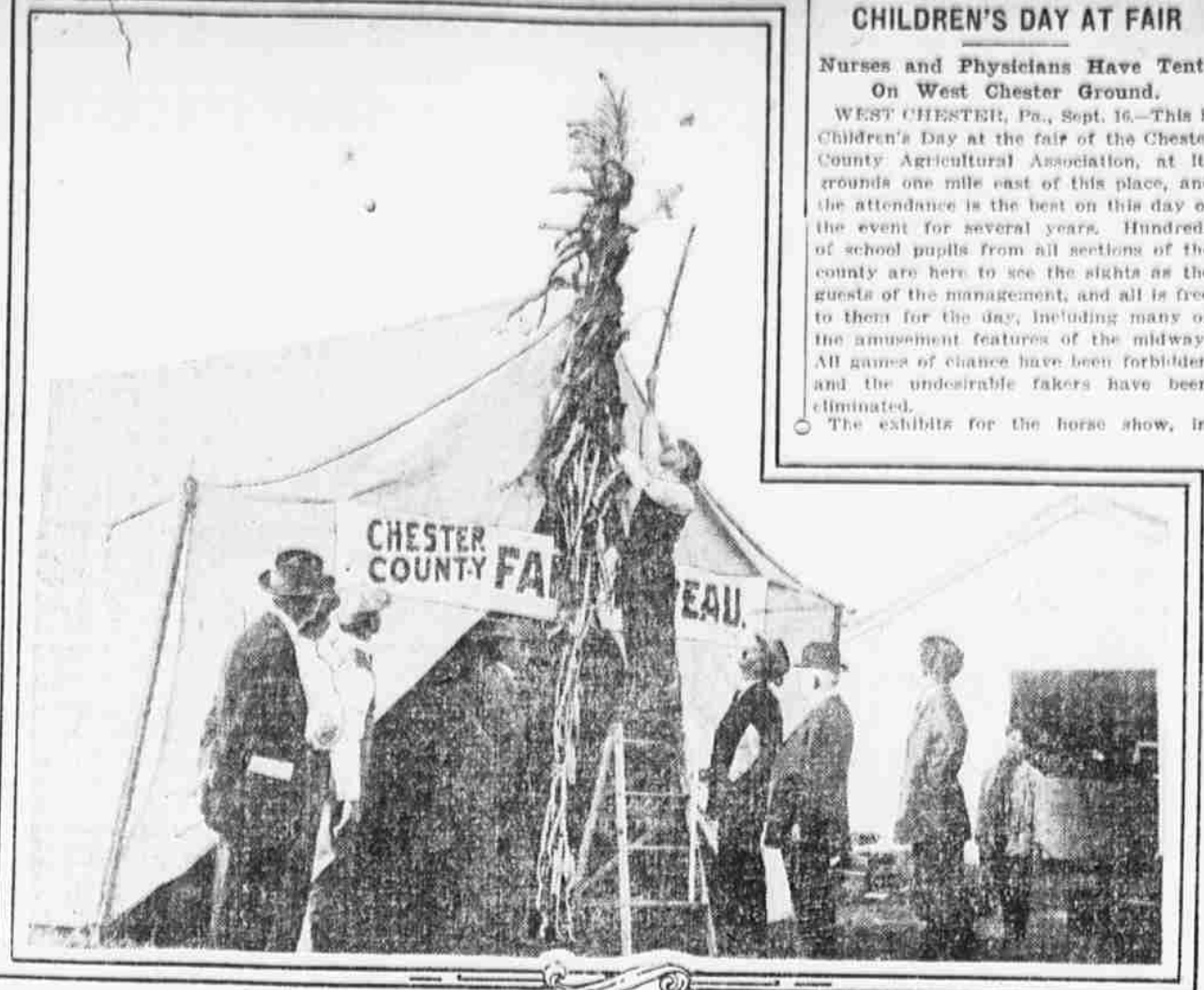
"On the following day, at 8 a. m., another eruption occurred, and on June 3 a week later, the third and much larger outbreak took place. It lasted 20 minutes and the falling column of dense black ash and steam to a height of 2500 feet. Stones were hurled from the crater, and the Forest Service outlook house, a quarter of a mile away on the tip-top of Lassen Peak, was broken by some of them. Black and white fragments accumulated about the crater to a depth of several feet. The dust and sulfurous gases carried southward by the wind were seen at Mineral, the forestry station, and the dust was reported by the Forest rangers who were in the neighborhood of the summit during the eruption. They reported the rushing steam and the falling ash, but report no rumbbling or subterranean rumbling or other electrical phenomena or great heat beyond that of steam.

"The dust was practically cold when it fell. Considerable volumes of water were ejected, and the water contained in the steam washed a gully in the snow to the adjacent tassel, which occupies what prior to the latest eruption had long been regarded as the youngest crater of the Lassen volcano. The new crater is not quite over the throat of the old one, but is a few hundred feet to the north-westward.

Continuing his report, Mr. Diller says that the eruption is visible in the Sacramento Valley for a distance of about 40 miles, and that with successive eruptions the new crater is becoming larger and larger. The other "hot holes" about Lassen Peak, Mr. Diller says, have not increased their activity, "unless it is Bumpass Hill, which is always forming." "No definite smother products," Mr. Diller continues, "have been found in connection with the recent eruptions of Lassen Peak. The ejected dust, as far as can be judged from an examination with a small pocket lens, is distinctly of pulverized granite, perhaps in part decomposed. The quartz and apparently also the siliceous matter are bright, but the hornblende, feldspar and mica are, of course, not so abundant in the ash, and are less evident. An examination with a petrographic microscope confirms the conclusion that the dust is the product of the pulverizing action of the explosive gases on the rocks through which they are escaping, and not the result of the explosive expansion of gases in a liquid lava.

"That heat has recently risen in the core of Lassen Peak is evident from the fact that whereas it was once cold, now it is hot and steaming. When K. E. Hayden and I were on the mountain in June 1913 and slid down the 200-foot to Yellow Hill, there was no sign of heat in the summit of Lassen Peak, struck by many thunderbolts during storms and surrounded by fire and there being no lightning in the air, it was as hot then, and the little lake in there is now, but the heat and the crater these new features appeared with the first eruption. But the only thing that is not yet precisely hotter indicates that the fire of temperature is local, and does not, at least as yet, affect the mountain mass. Time alone can tell what Lassen is going to do. The volcano may subside in its former quiescence. But we must not forget that it was only the top of the old Lassen that was blown off to make Monte Shasta and the Ventnas of today. Krakatoa

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CHICKENS FROM CRATES ON THEIR ARRIVAL AT FAIR GROUNDS

SCENES AT CHESTER COUNTY FAIR

Katun blow up from the very base with tremendous effect. There seems no good reason at present to fear a Krakatoan outbreak at Lassen Peak, but the part of wisdom dictates a close watch.

"Eruptions, as a rule, break out suddenly. Statesmen will generally find the viewpoint from which Loomis' photographs were taken close enough if the mountain is active, but if all is quiet and the seeder after knowledge must see the crater for himself he should be sure to ascend on the windward side, and approach with caution."

TOBACCO NOT TURKISH

Country Where Much of It Grows Now Greek or Bulgarian.

The former Turkish cigarette tobacco fields in European Turkey have been divided up between Greece and Bulgaria, according to Vice Consul General Heizer, of Constantinople. Tobacco was the principal item in the exports to the United States from Turkey during 1913 and amounted to \$16,357,857, a gain of

CHILDREN'S DAY AT FAIR

Nurses and Physicians Have Tents on West Chester Ground.

WEST CHESTER, Pa., Sept. 16.—This is Children's Day at the fair of the Chester County Agricultural Association, at its grounds one mile east of this place, and the attendance is the best on this day of the event for several years. Hundreds of school pupils from all sections of the county are here to see the sights as the guests of the management, and all is free to them for the day, including many of the amusement features of the midway. All games of chance have been forbidden and the undesirable fakers have been eliminated.

The exhibits for the horse show, in



charge of R. Penn Smith, are on the ground. The competition is strong in every class and the awards will be made by the judges as far as possible tomorrow, the work being continued on Friday if not completed.

Norris F. Temple has a display of 900 of the finest fowls in the poultry division, and the section for cattle was never better filled, animals being there from many States as well as from all sections of the county.

The women have a splendid exhibit of preserves and handwork of many kinds, and have tents for the reception of women visitors on the ladies, a corps of nurses being on hand to care for the latter while the parents view the exhibits. Physicians are on hand at a hospital tent, assisted by the first aid corps of boys, all trained, who have performed such duty at every big gathering here for years.

SAN SALVADOR IS IN NEED OF MORE TEACHERS

Arrangements Made to Obtain Director and Assistant From Germany.

SAN SALVADOR, Salvador, Sept. 11.—In a short time the Government expects to reopen the normal school for men teachers, which was closed several years ago. The shortage of instructors has been felt to a considerable degree. Arrangements have been made to bring in a director and assistants from Germany.

The normal school for girls continues to prove its value. This school is in charge of a French instructor. Intermediate and high school instruction is carried on in eight schools in the republic, among which is the National Institute. The number of matriculates in these schools last year was 275.

RARE STONE LOCATED

May Be Able to Use for Lithography.

J. W. Looman, a mineralogist of Nashville, Tenn., says that he found in Morgan County, Ala., what he believes is a first-class lithographing stone.

Mr. Looman will ship specimens to a lithographing house at Memphis, Tenn., for the purpose of having the stone thoroughly tested, and in the event it proves to be what he thinks it is a company will be organized to mine the stone and place it on the market.

The lithographing stone of the world comes primarily from Bavaria, Germany. This makes it quite expensive to transport to this country, even in time of peace, and now that all Europe is at war it is impossible to import it into this country at all.

UNION TRACTION TRIES TO BLOCK TRANSIT

Continued from Page 1

by the Union Traction Company, the urgent need for the establishment of the new high speed lines and for the other advantages arranged for the public by the transit program still will exist and they will have to be obtained without both the Philadelphia Rapid Transit Company and the Union Traction Company will forfeit that protection which is afforded them by the transit program against loss of net income diverted to the high speed lines and against loss of exchange ticket revenue.

"The city has the legal authority, the financial ability and the necessary machinery to establish adequate rapid transit facilities and the people have the power to abolish exchange tickets."

If any action by the city be deferred until after the Union Traction Company has agreed to the program, he said, then all thought of rapid transit may as well be abandoned, because that would be the equivalent of giving the Union Traction Company the power of veto on the whole enterprise. It continued:

NO SIGNIFICANCE IN PROTESTS.

"Much has been said about the protests filed by various stockholders of the Union Traction Company. These protests have any significance they might otherwise have when it is realized that they were obtained in response to a circular letter

containing an absolute misrepresentation of a material fact.

"That circular stated to the Union Traction stockholders that they should supply funds not only for the extension and equipment of existing lines, but for the equipment of the now proposed city-built and owned system of rapid transit lines. It has never been proposed by any one that the Union Traction stockholders should contribute one dollar for the equipment of any city-built or owned system of rapid transit lines. The cost of equipping these lines would be approximately \$100,000, but the proposed agreement with the Rapid Transit Company provides that all funds for that purpose shall be furnished by the Rapid Transit Company, and not by the Union Traction Company. The only thing that Union Traction stockholders are asked to do is to supply funds for the normal extension of existing surface lines."

"The protests of the Union Traction stockholders, therefore, are protests against a thing that has never been asked or suggested, and can have no possible force as a protest against the only thing that has been suggested or asked."

LEADERS FRIGHTENED

An illustration of the fright of Councilman leaders in the face of the united demand for an immediate start in carrying out the transit program was given at the meeting by Select Councilman Edward W. Patton, of the 27th Ward. Mr. Patton, who is a member of Council's Finance Committee, appeared at the meeting and protested his loyalty to the interests of the people and pledged his vote in the Finance Committee and on

the floor of Council's chamber to the transit plans of Director Taylor.

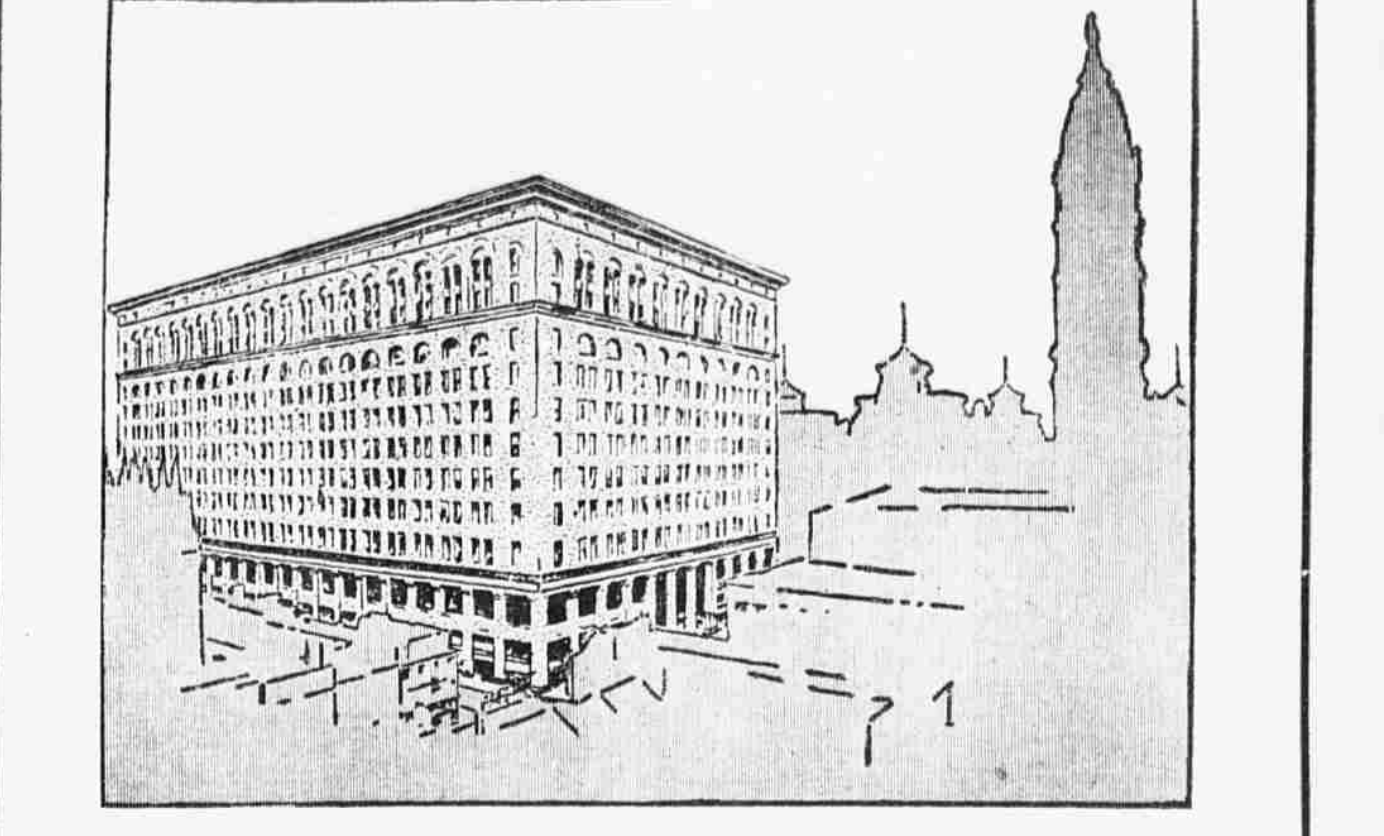
He then displayed a letter sent out by Edward B. Martin, chairman of the Transit Committee of the United Business Men's Association, in which the voters of the 27th Ward had been told to demand of Patton that he define his attitude on the transit situation and to vote against him in his campaign for the State Senate if he did not favor the transit plans.

"He charged that Councilmen were being 'coerced' to favor the transit plans in this manner. His friends and foes jumped to their feet immediately, but Mr. Martin quieted things by apologizing for having misunderstood Patton's attitude regarding transit."

Charles L. Pluck introduced the resolutions which were unanimously adopted, expressing the gratification of the association at the achievement of Director Taylor's request for the \$500,000 appropriation, and pledging the co-operation of the association in the fight for rapid transit.

Walter B. Betslet, president of the Northwest Business Men's Association, tried to help the candidacy of Senator Percuss by telling the business men at the meeting that Percuss had had something to do with Council's leaders, reversing themselves in the matter of the \$500,000 for the preliminary work. Others who spoke were Edward B. Martin, 154-15th St. Lafayette, of the Loan Improvement Association; James J. Muller, of the South Philadelphia Business Men's Association; Councilman James E. Landon, of the 25th ward; Edward A. Noppe, and State Senator Oaks.

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- 200 new Oriental rugs, Mossaols, Shiraz, Guindjes, Cabestans and Beluchistans, average size about 3x6, special at \$5.75, \$10.25, \$11.55 and so on up to \$22.50. (East Aisle)
- A special sale of young women's English top coats made in London to our own order, in 16 and 18 year sizes. For golf field and all outing wear, at \$10 each. (Second Floor, Chestnut)
- The arrival of some very pretty new white wash waists for women to sell at \$2.50 each, and upward. (Third Floor, Central)
- 160 boys' Balmacaan style overcoats in weather-protected fabrics, at prices about one half of usual---\$5 for tweeds and \$7.50 for velvets finish plaids. (Subway Floor, Market)
- A special disposal of new pillow cases of Irish linen, variously embroidered, priced at \$1.85, \$2.75 and \$3.50 a pair. (First Floor, Chestnut)
- Disposal of 150 women's new tailored suits, samples of early winter styles, marked specially at \$17.50. Also at the same place, 75 new Redingote suits of diagonal chevrot. (First Floor, Central)
- Fine choice of new plaid blankets, favored specially for college use. All wool at \$8 and \$8.50 a pair in double bed size; part wool, \$5 a pair. (Fifth Floor, Market)
- A little disposal of lace remnants---lace and chiffon---at about half their usual prices. (Main Floor, Grand Court)
- Arrival of women's washable gloves for autumn wear. Chamois \$1 and \$1.35 a pair; long white doeskin gloves \$1.85 to \$2.75 a pair. Washable leather gloves at \$1.50 and \$2.25. (Main Floor, Central)

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