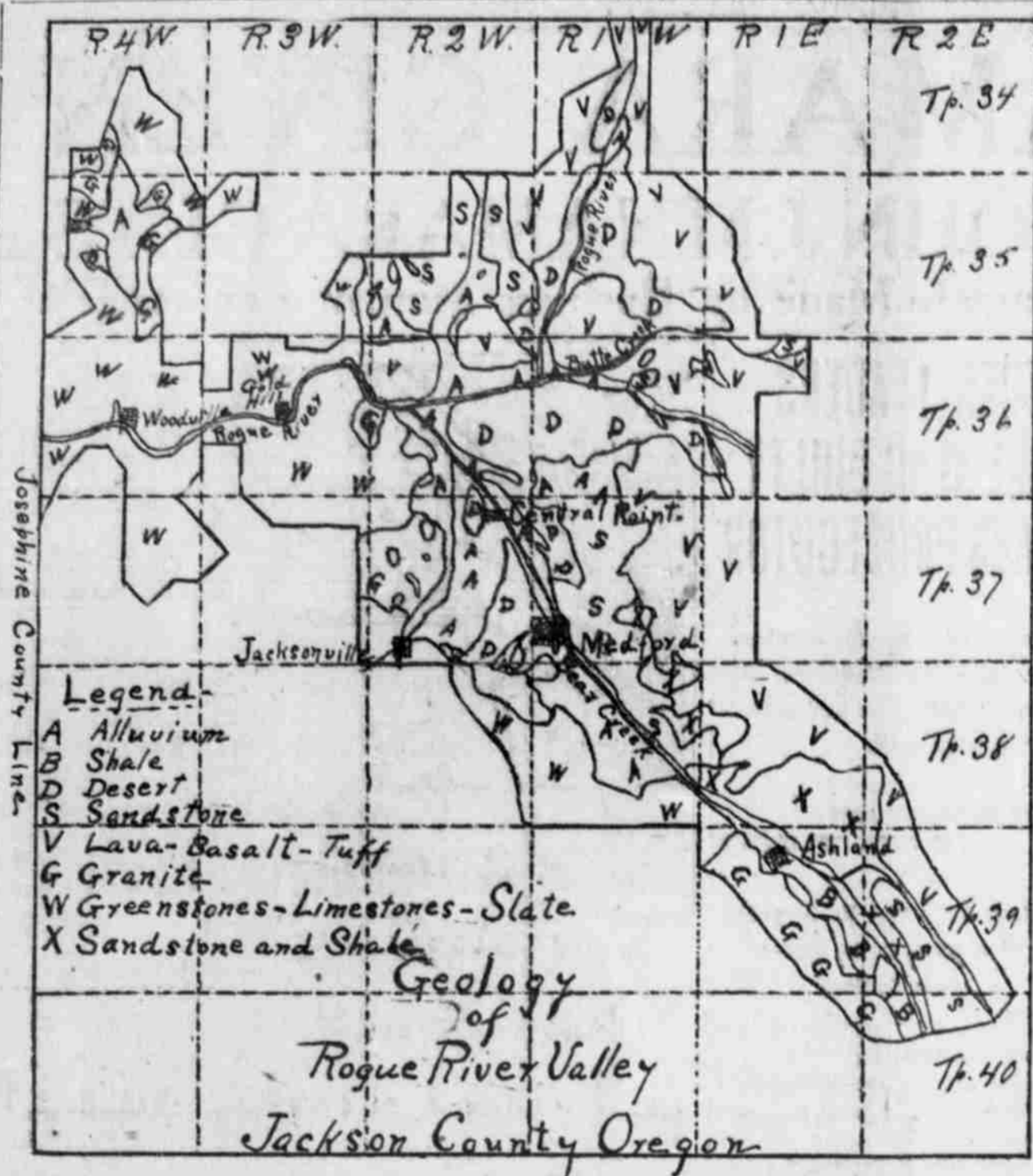


NOTES ON THE GEOLOGY OF THE ROGUE RIVER VALLEY AS SHOWN BY SOIL SURVEY

FIFTY TYPES OF SOIL FOUND

However, Not Until the Map and Advance Sheets of the Soil Survey Are Published Can Nature of Types Be Told.

Although all of the field work on the soil survey of the Jackson county area has been completed, it will be some time before the results will be published. The making of a soil map, as well as a thorough study of the soils of the Rogue River valley, is no easy task when it will be remembered that there are more than fifty soil types in the valley. There is an impression held by a few people that a soil survey of the valley had been made some three or four years ago, but this is not true. Naming perhaps half a dozen soils in a very indefinite way without mapping them is not a soil survey. Previous to the making of a soil survey it is usual to consider the geology of the district. This is done in order to determine very carefully the nature of the rocks from which the soils have come. The following notes with the accompanying map will show approximately the area over which the government soil survey was made, as well as some of the larger groups into which the valley soils have been placed. The notes are largely on the general form of the valley, the geology of the rocks, the geological structure and the geological history of the district. The notes are in no way complete, but represent merely an outline of what one may find by a hasty excursion over the valley. Not until the soil map and advance sheets of the soil survey have been completed will there be anything published as to the nature of the fifty or more soil types.



features of the eastern slope of the valley. They are much more pronounced, however, in the southern than in the northern end of the valley.

Geology—The Rocks.

There are five sources of material for the soils of the Rogue River valley. They are:

1. A series of hornblende, micaeous, feldspathic rocks usually metamorphosed into slates, serpentines and schists.
2. A series of granites and granite gneiss.
3. A series of rather soft sandstones, shales and conglomerates. The sandstones and sandy material in the shales and conglomerates seem to be made up to a considerable extent of other material than quartz. They are not at least pure, or nearly pure, quartz sandstones. The pebbles in the conglomerates, however, are many of them quartz. They are thus of quartzite and other metamorphic rocks and of various fine grained igneous rocks.
4. A series of basalts, tuffs, and possibly breccias.
5. The valley filling consisting of material from all the rocks named, as well as material carried from greater distances. The greater part of it, however, is derived from the rocks described in 1 to 4.

Geology—The Geological Structure.

The rocks all dip eastward except some sheets of volcanic rocks in the northern end of the valley which lie nearly or quite horizontal. The reason for this, whether due to a flow that took place subsequent to the folding of the other rocks or to a decrease of the folding in that direction, was not determined.

As a result of the eastward dip, the older rocks lie to the west and the younger ones to the east. The older rocks, the metamorphic rocks, and the granites are relatively hard rocks and form the mountains of the western side of the valley. The metamorphic rocks seem to be softer than the granitic rocks; and along at least a part of the valley boundary they form a series of lower mountains with the higher granitic hills lying back of them.

The sandstones lie next above the granitic and metamorphic rocks. Being soft, they have been eroded, and it is on them that the valley has been worn. They form the low hills lying in the valley and along the valley boundaries. They lie up on the slopes of the lower metamorphic hills and the western side of the valley, but do not seem to reach more than a very few hundred feet above the valley floor. The conglomerate beds seem to be responsible for a number of low hills out in the valley.

Above the sandstone series lie the basalt flows and the tuff and breccia beds. They form the eastern valley wall but outcrop mainly on the higher slopes; the sandstones dipping into the mountain below their outcrop in the lower slopes. There is some indication that the upper part of the sandstone series has one or

more tuff beds and possibly some lava sheets interbedded, but this was not definitely determined. From the soil standpoint, however, it is relatively unimportant, however important it may be from the geological standpoint.

A very small proportion of the tillable soil of the valley lies on the basaltic rocks because they outcrop high above the valley floor. In the northeastern portion of the valley a number of ovens extend eastward into the basalt regions when the soil is residual on the basaltic rock. The basalt material is an important modifier of the soils along the eastern slope of the valley, especially; and a great deal, in fact, the predominant part of the material of the valley filling on the eastern side is basaltic.

Geology—Geological History.

The first or oldest event, or series of events, seems to have been the formation and metamorphosing of the series of metamorphic rocks lying along the western flank of these mountains. So far as my observation goes, it seems to have been mainly eruptive in origin. How far west it extends, or what change in character takes place in that direction, is unknown to me.

The next important event seems to have been the intrusion into these metamorphic rocks of the granites which occur along the west side of the valley and in the higher hills west of it.

SON-IN-LAW VS. FATHER-IN-LAW

Mayoralty in Eagle Point Is Bound to Remain in the Family Anyway—Will Van der Helten Opposes A. J. Florey.

A hot battle at the polls is being waged at Eagle Point today, which partakes in a degree of a family row. For A. J. Florey, postmaster, who is in the race for mayor, has as his opponent William Van der Helten, his son-in-law. No matter what the outcome is, the job will be in the family.

Girls Attacked.

SAN FRANCISCO, Dec. 5.—Slashing three men with a razor after attempting an attack upon two girls, Stephen Zelasky is dying at the Emergency hospital today, and Policeman John W. Sheehan, one of his victims, and the man who shot Zelasky, is also in a serious condition. Annie Bradley and Mary Butler, both 16, who were attacked by Zelasky, are also in a serious condition.

NOTED GIRL VISITS CITY

Miss Lawrentz, Champion Woman High Diver of the World, Here on Vacation, Visiting With Friends.

Miss La Reina Lawrentz of Cleveland, Ohio, is visiting her cousins, Miss Dora Lawrentz and Mrs. Mabel Starks, in this city.

Miss La Reina is a world renowned girl, as she is the highest known horseback diver of the world. She mounts a tower sixty-five feet on horseback, then the horse makes a dive down into the shallow depths of eight feet of water with Miss Lawrentz on his back. She also makes dives of ninety-six feet without the horse. She is now on a seven months' vacation. The last dive she made on horseback before her vacation was in the presence of William J. Bryan, who came forward after she made her dive and shook hands with her and congratulated her for her brave and daring act. She has also dived in the presence of President Taft, who also shook hands with her and congratulated her. When but 11 years of age she made a dive of ninety-six feet from the top of a tower into the ocean. She is now a tall, slender girl of about five feet eleven inches, with a fine muscular development and a chest expansion of five and three-fourths inches, which is far above the average. Miss La Reina is really a wonderful girl.

SCRANTON, Pa.—Hugh Jennings, manager of the Detroit Tigers baseball club, who was injured in an automobile accident here, is much improved, according to an announcement from the sickroom today.

Many Failures

But Parisian Sage Overcame Miss Kruger's Hair Troubles. PARISIAN SAGE is not guaranteed to grow hair on bald heads, but it is guaranteed by the well known druggist, Chas. Strang, to stop falling hair, eradicate dandruff and stop itching scalp, or money back. Sold in every town in America by leading druggists for 50 cents a bottle. Read Miss Kruger's letter.

"PARISIAN SAGE is the best hair grower and beautifier and dandruff cure. I lost all my hair through typhoid fever; I was almost baldheaded and my scalp was as sore as could be. I tried everything, but in vain. Finally I tried PARISIAN SAGE, and after using one bottle my hair started to grow, and has grown three or four inches inside of two months. I advise every woman who wants beautiful hair to use PARISIAN SAGE." Miss Meta M. Kruger, Brownstown, Minn.

UNCLE JIMMIE TWOGOOD WRITES

Tells of Pioneer Friends in Rogue River Valley, Recalled by the Death of Mrs. Kenny, Nee T'Vault.

BOISE, Idaho, Nov. 26, 1911.—To the Editor: I was very much surprised awhile back to notice the death of my dear old friend Mrs. Kenny (nee Lib T'Vault). It was in the month of August, 1851, that I first met Col. T'Vault in Oregon City. At that time General Joe Lane, Delezen Smith, J. M. Shepard, and his brother-in-law were called the "wheel horses of the democrat party," and ran things to suit themselves, but it didn't last.

It was the spring of 1852, that Col. T'Vault moved out south to the Rogue river valley and took up a ranch 10 miles north of Jacksonville and called the place where they had the postoffice Dardanelles. Gold was struck there afterward by Ish, Johnny MacLothlin, Henry Clippell, August Brown and others. In the Indian war 1853, Doc Rose and John R. Hardin were waylaid and killed near there. Hardin had married Amanda Gaul of Gaul's creek, widow married Hawkins Shelton of Roseburg, lived neighbors to me here many years. Both are gone now.

Of my old dear friends the T'Vault's, the old gentleman and wife, Lizzy, Sanny and George are all gone now as are Col. John E. Ruff, whom I knew in Chicago in the '40s; Mike Hanley, Wayner Foudry and hundreds of others. Dave Lynn and John Hanley of Boise, Joe Plinkham and James H. Finney are all that are left. At the rate the pioneers are passing away, I soon will be all alone. I am approaching my 86th birthday. My oldest sister, Mrs. M. L. Satterlee, of 2704 Michigan avenue, had 150 guests at her 91st birthday party, which was on October 16.

Joe Plinkham is manager of the Boise assay office. John Hally and wife, nee Miss Burrel Griffin, and Jim Finney that ran the pack train to Crescent City and who is now proprietor of the Finney theater, which cost \$100,000, are all 10 years younger than myself, and are all in good health and vigorous. The weather in Boise is ideal, warm, clear, sunshiny days, no storms or wind yet. It is next to Rogue river valley, which has the best climate on the coast.—J. H. Twogood.

TO CURE A COLD IN ONE DAY Take LAXATIVE BROMO Quinine Tablets. Druggists refund money if it fails to cure. E. W. GROVE'S signature is on each box. 25c.

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The greatest American play ever written.
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The great racing scene is a thrill.
Prices: First 10 rows, \$1.50; next 7, \$1; orchestra circle, 75c; balcony, first three rows, \$1; next 3, 75c; gallery, 50c. Seats now selling.

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