

ARTESIAN BASINS
Various Geological Investigations in Parts of Oregon.

SIGNIFICANCE OF SPRINGS

The Necessity for Legislation Restricting the Utilization or Rather the Waste of Subsurface Waters is Also Emphasized.

Flowing wells can probably be obtained in a number of districts in southeastern Oregon, and southwestern Idaho, according to a report issued by the United States Geological Survey as Water-Supply Paper No. 78.

The presence of artesian conditions in an area is frequently inferred by geologists from a study of rock structure. In what is properly termed an artesian basin the layers of rock are bent downward, so as to resemble a pile of shallow plate-shaped dishes placed one within another.

Significance of Springs.

Confirmation of the supposition that water under pressure exists beneath the surface in any area is found at many places in the occurrence of warm springs—those with temperatures ranging from 60 degrees to 100 degrees F.

Professor Russel calls attention to the fact that while warm springs may indicate the presence of a water-charged layer that would supply flowing wells, a hot spring, or one having a temperature of more than 100 degrees, is not so favorable an

indication. Hot springs ordinarily rise from depths so great that even if they come from a well defined water-charged layer it would be unavailable as a source of supply for most purposes for which artesian water is used, as the expense of drilling to reach it would be unjustifiable.

Needs for Restrictive Legislation.

The necessity for legislation restricting the utilization, or rather the waste, of subsurface waters is also emphasized. Owners should be compelled by law to case every drill hole in an artesian basin—that is, to place an iron casing or tube in the hole, made sufficiently tight to prevent water from rising outside of it.

Prof. H. A. Howell, of Havana, Cuba, Recommends Chamberlain's Cough Remedy.

"As long ago as I can remember my mother was a faithful user and friend of Chamberlain's Cough Remedy, but never in my life have I realized its true value until now," writes Prof. H. A. Howell, of Howell's American School, Havana, Cuba.

"Pardon me," began the new acquaintance, "but are you the Mr. Cadley Nuritch who wrote that magazine article last month for us?"

"Of course. I know that. I read the article."—Philadelphia Press.

PORTLAND MARKETS
Latest Quotations in the Portland Market.

Complete Market Reports Corrected Each Day Giving the Wholesale Prices of Commodities, Farm Produce, and Vegetables.

PORTLAND, March 10.—Further shipments of California butter to this market are expected within a few days, and it is quite probable that local prices will be put down this week in order to meet the competition from the South.

Grain, Flour, Feed.

Wheat—Club, 82c; Valley, 82c; bluestem, 84c; red Russian, 80c. Oats—Producers' prices: White, \$28; gray, \$26@27.

Flour—Hard wheat, patent, \$4.80; straight, \$4.00; graham, \$4.50; rye, \$5; whole wheat flour, \$4.45; Dakota, \$6.40@6.60; Eastern rye, \$6.60; Pillsbury, \$7; Corvallis, \$4.40.

Hay—Wholesale selling prices;

Valley timothy, \$17@18; Eastern Oregon, \$20@21; clover, \$14@15; alfalfa, \$12@13.

Barley—Producers' prices: Brewing

\$28.50; feed, \$27; rolled, \$28@29. Buckwheat—\$36 per ton.

Cereal Foods—Rolled oats, cream,

90-lb. sacks, \$7; lower grade, \$6.50; oatmeal, steel cut, 45-lb. sacks, \$8; 9-lb. sacks, \$4.25 per bale; oatmeal (ground), 45-lb. sacks, \$7.50 per barrel; 9-lb. sacks, \$4.00 per bale; split peas, \$4.50 per 100-lb. sacks; 25-lb. boxes, \$1.25 per box; pastry flour, 10-lb. sacks, \$2.75 per bale.

Fresh Meats and Fish.

Oysters—Shoalwater Bay, per gallon, \$2.25; per sack, \$4.50; Toke Point, \$1.60 per 100; Olympias (120 lbs.), \$6; Olympias, per gallon, \$2.25. Fresh Meats—Veal, fancy, 100 lbs., average, 9@9c; 100 to 150 lbs., 8@8c lb.; large and coarse, 5@7c; hogs, fancy block, 7@7c; heavies, 6@7c; beef, bulls, 3@4c; cows, 4@5c; steers, 5@6c; muttons, medium size, 10@11c; large and coarse, 8@9c. Clams—Little neck, per box, \$2.50; razor clams, \$2.00 per box.

Fruit.

Domestic Fruits—Apples, fancy, \$1.75@2.50 box; common to good, \$1@1.50 box; pears, \$1.75@2.00 box; cranberries, \$7.00@9 per barrel. Dried Fruits—Apples, 9@10c per pound; apricots, 27@29c; peaches, 11@13c; pears, 11@14c; Italian prunes, 5@6c; California figs, white, in sacks, 7c per pound; black, 6@7c; bricks, 75c@8.25 per box; Smyrna, 16@17c per pound; dates, Persian, 6@7c per pound.

Tropical Fruits—Lemons, \$2.00@3.50 box; limes, 75c per 100; oranges, new navels, \$1.75@2.50 box; grapefruit, \$3.50@4.00 box; bananas, 5c lb.; crated, 5c lb.; tangerines, \$1.40@1.50 box; pineapples, \$4@5 dozen.

Groceries, Provisions, Etc.

Sugar (sack basis)—D. G., \$5.65; XX, \$5.45; beets, \$5.45; Golden C, \$3.50; extra C, \$5.15; powdered, \$5.80; boxes, 55c cwt. advance over sack basis; fruit or berry sugar, \$5.65; boxes, 55c cwt. advance over sack basis (less 1c if paid for in 15 days).

Coffee—Mocha, 24@28c; Java,

fancy, 25@28c; Java, good, 20@24c; Java, ordinary, 17@20c; Costa Rica, fancy, 18@20c; Costa Rica, good, 16@18c; Arbuckle, \$16.63 cwt.; Lion, \$15.88 cwt.; Colombia coffee, 14c lb.; Salvador, 11@14c. Rice—Imperial Japan, No. 1, \$6.25; Southern Japan, \$5.25@5.75; broken, 5c; head, fancy, \$6@6.75. Sage and Tapioca—6c. Provisions—Hams, large, 13c; small, 13c; picnic, 9c; boiled hams, 22c; boiled picnic, 28c; breakfast, bacon, fancy, 22c; English, 15c; dry salted short clears, 10c; backs, 10c. Dates—Golden, 60-lb boxes, 6@6c; 1-lb packages, 8c; Fard, 15-lb boxes, \$1.40 box. Lard—Kettle-rendered tierces, 11c;

subs, 12c; 50s, 12c; 20s, 12c; 10s, 12c; 5s, 12c. Standard pure: Tierces, 1c less; compound, tierces, 8c; least, 13c.

Raisins—Loose muscatels, 3-crown, 7@7c; 4-crown, 7@8c; bleached seedless Sultanias, 9@12c; unbleached seedless Sultanias, 8@8c; London layers, 3-crown, whole boxes of 20 pounds, \$2.00; 2-crown, \$1.75.

Canned salmon—Columbia River, 1-lb talls, \$2.10; 2-lb talls, \$3.00; fancy, 1-lb flats, \$2.25; 1-lb flats, \$1.40; fancy, 1-lb, ovals, \$2.75; Alaska talls, pinka, 95c; red, \$1.40; nominal, 2s, talls, \$2.25.

Spices—Cloves, 25c lb; chillies,

13c lb. Salt—Bales of 75-2s, bale, \$2.15; bales of 60-3s, \$2.15; bales of 40-4s, bale, \$2.15; bales of 15-10s, bale, \$2.15; bags, 50s, 1ne, ton, \$16.50; bags, 50c; genuine Liverpool, ton, \$18; bags, 50s, 1-ground, \$13.50; 100s, ton, \$13; R. S. V. P., 20 5-lb cartons, \$2.25; R. S. V. P., 3-lb cartons, \$1.75; Liverpool, lump, per ton, \$20.50.

Nuts—Walnuts, 15@20c per lb; filberts, 16c; Brazils, 20c; pecans, 14@20c; hickory, 8c; Virginia peanuts, 6c; Jumbo Virginia peanuts, 7c; Japanese peanuts, 6c; chestnuts, Italian, 10c; Ohio, 25c; coconuts, dozen, 90c @ \$1.00; pine nuts, 17c lb.

Produce.

Butter—Country creamery, 32c@38c; city creamery, 37c; store, 15@16c; butter fat, 33@36c. Eggs—Ranch, candled, 18@19c. Cheese—Young America, 17c; Oregon full cream, flats, 15@15c.

Honey—Dark, 11@12c; amber, 12@13; fancy white, 14@15. Poultry—Old roosters, 9@10c lb; hens, 12@13c lb; dressed stock, 1@1c higher than live; ducks, 14@15c lb; turkeys, live, 11@12c lb; dressed, 15c lb; geese, live, 9@10c lb; pigeons, old, \$1 per dozen; squabs, \$2@3 per dozen.

Vegetables.

Cabbage—\$1@1.25 cwt.; cauliflower, \$1.85 crate; celery, \$4.00@5.00 crate; parsley, \$1.25; hothouse lettuce, \$1.00 @1.25 box; head, 75c dozen; spinach, box, \$1.25; Brussels sprouts, 8c; artichokes, 90c@1.00 dozen; tomatoes, \$4.50@5.50 crate; peppers, 22c lb; beans, green and wax, 20c lb; peas, 10c lb; egg plant, 20c lb; beets, \$1.00 per cwt; turnips, 75c@1 per cwt.; carrots, 50c@1 per cwt.; cucumbers, \$2@2.50 dozen; green onions, 40c dozen.

Potatoes—Buying price, 40@50c

per cwt.; sweets, \$3.50 per cwt. Onions—Buying price, \$2@2.25 per cwt.

Hops, Wool, Hides, Etc.

Hops—1907 crop, 4@5c lb. Wool—Valley, 16@18c; Eastern Oregon, 12@18c, as to shrinkage. Cascara Sagrada (chittim bark)—4@5c per lb. Beeswax—Good, clean and pure, 22@25c per lb.

Tallow—Prime, 5c; No. 2 and

grease, 2@6c per lb. Oregon Grape-root—Per 100 pounds, \$3@5.

Hides—Dry hides, No. 1, 12c lb; dry, No. 1, 12c lb; dry salted, one-third less; dry calf, 14c lb; salted steers, 5c pound; salted cows, 4c lb; stags and bulls, 3c lb; kip, 5c lb; calf, 9c lb; green stock, 1c less; sheepskins, shearings, 10@25c; short wool, according to quality, 50lb@90c; dry horses, 50c@1; dry colts, 25c; angora, 80c@1; goat, oemmon, 10@20c.

Oils, Lead, Etc.

Coal Oil—Union and pearl and astral oil, cases, 18c per gallon; water white, iron barrels, 11c; cocene and extra star, cases, 21c; headlight oil, cases, 19c; iron barrels, 12c; elaine, cases, 28c.

Turpentine—In cases, 72c; in wood barrels, 69c; in iron barrels, 65c; in 10-case lots, 71c.

Benzine—V. M. and P. and Union Naphtha, cases, 19c; iron barrels, 12c.

Linseed Oil—Raw, 5-barrel lots, 51c; 1-barrel lots, 52c; in cases, 58c; boiled, 5-barrel lots, 53c; 1-barrel lots, 54c; in cases, 60c.

Gasoline—Union and Red Crown, bbls., 17c; cases, 24c. Motor oil, bbls., 17c; cases, 24c. 86 degrees, bbls., 30c; cases, 37c. Engine Distillate, bbls., 10c; cases, 17c.

Lead—Strictly pure white lead, in ton lots, 7c; 500-lb lots, 8c less; less than 500 lbs., 8c; red lead, 15c and 13c higher than white.

The Wily Owl.

A party of horsemen were traveling along Bridge creek, a tributary of Bad Water river, Wyoming, when their horses suddenly shied off the track at the sound of a "rattle." Search was made for the snake, but it was finally found that the sound proceeded from the burrowing owl, which lives in the burrows of the prairie dog, often, it is said, in company with the rattlesnake. Seated on a post the party heard the owl give a third rattle. And whenever they passed the spot it gave warning by its rattle, and the horses always shied off the track in alarm.—American Naturalist.

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February Official Tide Tables

Compiled by the U. S. Government for Astoria and Vicinity.

Table with columns for High Water Date, A.M., P.M., Low Water Date, A.M., P.M. for March 1908.