

# HOW WEATHER BUREAU FORECASTS STORMS AND FLOODS

WASHINGTON, D. C., Jan. 23.

Many people have an idea that there is something mysterious and occult about the work of the weather bureau in forecasting the coming storms, frosts and floods. Not a few think that the observers must necessarily get their data by reading the planets, the stars and the moon. As a matter of fact the forecaster of the bureau foretells the coming of disturbances in a businesslike way, very similar to that in which a man who has ordered a shipment of goods would estimate the date of its arrival.

Storms as a rule do not originate in the United States. The come to us, some from the Philippines, Japan, Siberia, Alaska, Canada or the Gulf of Mexico. The weather bureau gets cable, telegraphic or wireless notice of a foreign storm. Station after station, or vessel after vessel reports the storm's arrival in its neighborhood, so that the general direction and rate of progress can be determined very early. In fact, the arrival of some storms can be foretold ten days in advance.

**Watch Low Barometers**

The forecasters watch for the region of low barometer which is the storm center around which the winds blow. This whirl or eddy moves bodily toward with the general eastward drift of about 650 miles a day in our latitudes. As the lines of equal pressure (isobars) around the low center crowd closer together, the winds attending the storm increase in force. The forecaster determines the direction of movement of the storm and its velocity.

When weather disturbances are reported, the forecasters know from experience about how long it takes to reach our Pacific coast, and then how long after they will reach the Atlantic coast. For example, if a storm coming from Siberia drifts eastward around the north pole and reappears in Alaska, it should appear in Washington and Oregon in about two days; should get to the Great Lakes in six days and to the Atlantic coast in seven or eight days.

**Storms Sidetracked**

Unexpected conditions may delay storms or diverting them from the straight track just as a refrigerator car may be thrown off its schedule or be shipped by accident on a wrong road. Some of these storms deplete themselves by running into regions of high barometric which are of greater magnitude and extent than the storm itself. Some of them, however, travel completely around the world.

To keep tab on cold waves that come into the United States from Canada and Alaska, the weather bureau studies the Canadian weather reports. England sends reports from Iceland, the British Islands and continental Europe, and daily reports come from St. Petersburg on the conditions in Russia and Siberia.

The same businesslike system used in tracing the track of a storm is applied in determining the arrival of frost.

**Forecasts of Floods**

Flood forecasts are made in much the same way. Information as to the amount of rainfall at the head waters of streams that cause floods are covered by telegraphic reports sent by local observers. As this rain reaches the main channel, the height of the water in the channel is determined by successive gauging stations. Past records establish how much a height, say of twenty feet at Dubuque, Iowa, will produce at Davenport, another station eighty miles down the Mississippi. This plan is followed all the way down the river, and at each point full allowance is made for the effects of water from tributaries, and from additional and local rainfall. As a result of these observations in the recent flood, the people of Cairo had warning a week or ten days in advance. The Pittsburgh district can be given only twelve to twenty-four hours' notice, because a flood is upon them within twenty-four hours after a heavy rain storm.

With Medford trade is Medford made

**TRADES TRADES****Portland Residence**

Eight room modern house, cement basement, paved street; lot 66x110, valued at \$4000; will trade for home here are will take good residence site to value \$2000.

**North Central**

Residence property value \$2500, clear; will trade and pay difference.

**Bennett Investment Co.**

Real Estate Loans Insurance

## NEWS FROM ASHLAND AND VICINITY

A heavy snow storm fell in Northern California Wednesday night and Thursday. The snow line began just south of Barrows on the Pacific highway and at Siskiyou station measured four feet and at the summit of the mountain six feet and when Hilt was reached measured sixteen inches. In the Mt. Shasta section the snow reached eight feet at Dietz and between that place and Siskiyou two passenger trains were stalled for many hours with the rotary snow plow out of business between them. The snow fall was heavy through the Sacramento canyon as far south as Delta. The railroad between Ashland and Weed was open all the time. The blockades were south of the Weed branch as they always are.

Mrs. Kate Kiltner Fox, wife of David F. Fox died Wednesday. The funeral will be held at the residence on Hargadine street at 2 o'clock Friday afternoon.

The funeral of Mrs. George Morris took place Thursday from the residence on Factory street, interment in Mountain View cemetery. She leaves a husband, an employee of the railroad shops, and five children.

Ben Mashorn who is manager of a hotel in Eastern Oregon was united in marriage with Miss Morgan at her home at Dallas, Polk county. Ben was a former student of the Southern Oregon State Normal School.

## COURT HOUSE NEWS

Reported by Jackson County Abstract Co., Sixth and Fir Sts.

**New Cases**

Margaret Read vs. B. O. Lockwood et al. Suit to foreclose mortgage.

In the matter of H. E. Boyden for a writ of habeas corpus. Petition and order.

Saulding Mfg. Co. vs. F. Y. Allen. Affidavit and order on appearance.

Margaret Tice vs. Edwin B. Norton et al. Affidavit and order of publication of summons.

W. E. Phipps, notary commissioner.

J. C. Hannah files stock and brand mark.

E. B. Rainey files stock and brand mark.

**Real Estate Transfers**

J. E. Conway, et ux to Julio Endelman, 40 foot lot on Nursery street Ashland, part of block 41, W. D. ....

Julio Endelman to F. E. Conway, same, W. D. ....

F. E. Conway et ux to F. E. Watson, same, assn. of execs.

Ellen J. Cole to Rufus Cole, undivided one-half interest in D. L. C. 37-41-1E and D. L. C. 47-41-2E, W. D.

United States to Frank Redner ... Patent

Frank Redner to J. A. Bohn N. W. NW 14-35-4W, W. D. ....

A. L. Loomis to Edith Loomis 19 acres in D. L. C. 44-37-2W, Q. C. D. ....

W. T. York et ux to W. N. Campbell and S. A. Nye, same, Q. C. D. ....

W. T. York et ux to W. N. Campbell and S. A. Nye, part of 1 block 3, Barr's Add to Medford, B. & S. D. ....

Mr. and Mrs. Fred Wald of Medford were week-end guests of Mr. and Mrs. D. H. Slead.

Word has been received from Lyndall Jacobs of Council Bluffs, Iowa, that she will reach here the latter part of this week. Miss Lyndall is a sister of George Jacobs who has been running the ranch alone.

Several from here attended the entertainment given in Gold Hill by Prof. Reddy of the university at Eugene. All were well pleased and should he return no doubt a greater number would endeavor to attend.

There seems to be an abundance of moisture falling. We think if it keeps on at the present rate it may reach the normal number of inches of rainfall.

Miss Bertha Woolverton was a caller in Medford Monday.

**At the Isla.**

"Laughter is good for the soul," someone has said. Whoever said it must have been thinking of "Beauty Undressed," for this delightfully merry comedy is full of laughter and must therefore be good for the soul. This you may verify by going to the Isla Theater on Friday or Saturday.

The great denouement takes place upon the commodore's private yacht far out at sea when it is discovered that Irene's supposed beauty, as well as the French Viscount's, is all false. It is made up of wigs, toupees, false eyebrows and artificial teeth. When this is discovered,

Harry, the commodore's son, and Helen, Mrs. Preston's daughter, are reunited in love and become engaged, which was what the commodore had been planning all along. The denouement is brought about through the use of a fishing rod and tackle and a false alarm. As there are no goats or ostriches in the sea, it is certain that the false wig, toupee, eyebrows and teeth, which were part of Irene's and the Viscount's beauty, were not eaten, but it is sure that even the fishes must have had a good laugh.

## RIVERSIDE RIPPLES.

A gloriously good time was enjoyed by all who attended the masquerade ball in the McDonald house on Riverside Saturday evening. Between fifty and sixty were in attendance, some being guests invited by members of the club.

Those from away were Mr. and Mrs. Carley, Mr. and Mrs. Wahl, W. W. McDonald, the Misses Marguerite, Florence Clark, Mamie Clark, Messrs. Paul McDonald, Clinton Parkeyville, Charles Carr and Floyd Hart, all of Medford; Mrs. McQuillen of Ashland, Mrs. Hughes and Mrs. Dimidio of Portland.

A buffet supper was served consisting of coffee, sandwiches and cake.

The costumes were all good, Mrs. Schauberry and Miss Harper having the guests disguised. Following are some of the make-ups: George Jacobs, Clarence Cook and Ben McDonald, clowns; Paul McDonald, Pierrot; Floyd Hart, negro; Charles Carr and Clinton Parkeyville, rathah boys; Bertha Woolverton, Gypsy maid; Marguerite Carley and Mamie Clark, French dolls; Mrs. Schauberry, an old negro woman; Mr. Schauberry, Weary Willie; Mrs. G. B. Alden, Dolly Varden; Mrs. C. D. Woolverton, Irish washwoman; Mrs. I. H. Porter, "Little Red Devil"; I. H. Porter, Hunter; Mrs. Ben Maymon and Gladys Hamond, fancy gowns of crepe paper; the Misses Flippin, gowns of the old times; Ralph Dusenberry, country gentleman. Music was furnished by Miss Mamie Clark, violinist from Medford, also Messrs. Benji Harrison, John Short and Ralph Dusenberry, violins, and Richard Swacker, banjo. The central location of the McDonald house and the good floor for dancing cause Riverside people to improve their opportunities and another good time is planned for early in February.

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Party wants to rent a large stock ranch with privilege of buying.

38 acres close to good town; good buildings, half irrigated. A fine buy at \$1000.00 and \$1500.00 cash will handle.

20 acres of pears in fifth year, a fine proposition at \$225.00 an acre.

Good, modern homes for rent.

C. D. HOON

Room 10, Jackson County Bank Bldg.

## WHY?

A 1914 offer.

45 acre dairy and garden tract, all Bear creek bottom, free soil, good house, plenty shade, good spring and large barn, 20 acres alfalfa, none better in Jackson county near Medford. Owner must leave at once.

Price Asked \$6000.00

I want you to see this. It is the cheapest Bear creek bottom land I have ever offered for sale.

Furnished and unfurnished houses for rent.

J. C. BARNES

First National Bank Building  
Phone 120-J**FOR SALE—MISCELLANEOUS**

FOR SALE—Team, wagon and harness horses weigh 2750, wagon 3 1/2 inch in good shape, \$250.

Light farm wagon, ran 200 miles worth \$125, for cash, \$70.

One 7-year-old horse, weighs 1300 lbs., works anywhere, \$125.

Single footer, saddle horse, gentle for women or children, will drive, \$75.

One 5 passenger, 4 cylinder, 30 horsepower car in fine shape worth \$900 for \$600. See R. H. Toft room 32, Jackson County Bank Bldg.

FOR SALE—Cheap, piano, buffet, dresser and kitchen cabinet with cupboard, P. A. Finlayson, opposite Lone Pine school, 265.

FOR SALE AUTOMOBILES—One 1914 model B Buick, electric lights self starter. Run 500 miles on pavement. A snap for some one who wants a light family car.

One 1911 Cadillac in good running condition; a reliable car to buy, at a snap.

One 1912 E. M. F. run about three thousand miles, always had the best of care, and in fine condition. Hail Taxi Company, 260.

FOR SALE—Body fir cord wood and cedar fence posts for sale. Apply or address Neuner Bros., Glendale, Ore. 273.

FOR SALE—Furniture for sale. Call Friday or Saturday, 1119 West 10th. p60\*

FOR SALE—Manure delivered by the load. Also black loam. Phone 684-R3. 262

FOR SALE—Lunch counter, \$30 daily receipts. Sacrifice, leaving city, \$300, part cash. Daley, over Jackson County Bank. 282

FOR SALE—Light buggy or will trade. Wanted light hack, saddle, fresh cow brood sow. W. O. Colbinst, R. F. D. No. 1. 262

FOR RENT—Close in four room house, \$10 per month with city water paid. Location 207 South Ivy street for particulars. Call phone 349-J. 243

FOR RENT—New and second hand suits 35c up; shoes 25c up, coats and vests 35c up, overcoats \$1.00 up, laundry collars, 2 for 5c, good and first class guns, watches, gum boots, tents, slickers, etc., for sale or rent, your own price. Call room 33, Jackson County Bank Bldg. 280

FOR RENT—50 tons of first class baled hay, 15 extra good cows, 10 Durham, 5 Jerseys, fresh and coming fresh. 50 tons of first class baled hay, 3 fine horses, spring wagon and cart. Walsh's Ranch on Spring street, mile out North Roosevelt avenue. 276

FOR RENT—Nice dry 16-inch balm chunk and stove wood in not less than two tier loads. The best wood in the market. B. F. Van Dyke, phone 403-R. 274

FOR RENT—15 extra good cows, 10 Durhams, 5 Jerseys, fresh and coming fresh. 50 tons of first class baled hay, 3 fine horses, spring wagon and cart. Walsh's Ranch on Spring street, mile out North Roosevelt avenue. 276

FOR RENT—Large sleeping rooms, and modern housekeeping apartments, prices very reasonable. Phone 247-L. 222 South Holly street.

FOR RENT—Newly furnished rooms, each room suitable for one or two gentlemen. Phone and bath. Rent \$10.00 per month. 1121 East Main. 278

FOR RENT—Furnished housekeeping rooms, lights, gas; also half bed room, wood heaters. 234 Ninth St. 274

FOR RENT—Light housekeeping and transient rooms, nicely furnished, cheap. The Oxford, 223 W. Main St. 278

FOR RENT—Large buggies due to farrow latter part of February. Gray Crags Orchards, lower Table Rock. Phone Central Point. 260

FOR SALE—Team, \$200. H. W. Barneburg, box 747, Medford, Ore. 269

FOR SALE—Two colts, one 1005 and one 1200 lbs. Price \$200. F. E. Barneburg, box 747, Medford, Ore. 269

FOR SALE—Large broad sows due to farrow latter part of February. Gray Crags Orchards, lower Table Rock. Phone Central Point. 260

FOR SALE—Jersey milk, delivered \$2.50 per quart per month. 721 Bennett Ave. 264

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