

MISCELLANEOUS.

THE GULF STREAM.

The Gulf Stream is a current in the Atlantic Ocean, issuing from the Gulf of Mexico between Florida and Cuba, following the general direction of the coast of the United States so far as to near Long Island, thence trending easterly, increasing in width until it reaches mid-ocean. There it divides, one portion going northward and probably reaching the open Polar Sea (if there be one) via Spitzbergen; another portion washing the shores of the British Isles, while still another stream warms the Azores, Madeira, Canary and Cape Verd Islands, finally joining the Equatorial Current, to be returned to the place whence it started.

This stream is narrowest between Cape Florida and the Bemini Islands, where it is limited to forty-four miles in width. Its velocity there is from three to five miles an hour, and its highest surface temperature is 85°. It is bounded by walls of cold water, the distance of which from the shores varies greatly. At Cape Florida the inner wall is only a little distance from the shore; at St. Augustine it is often seventy-five miles; at Charleston, seventy; at Cape Hatteras, thirty-five; at Cape May, one hundred and thirty-seven, and at Sandy Hook two hundred and fifty-five miles. This walls are distinctly marked, as are also the bands, so called, of the stream itself, the middle of the stream being colder than either side, and thus, in crossing the stream from Cape Hatteras, we first find warmer water thirty-five miles from shore, then we cross the first maximum or hot band, fifty miles wide, then the cooler band thirty miles wide, and again a second warm band fifty miles wide. The middle of the southern portion of the stream is considerably higher than either side, and is readily seen by watching any floating thing on a calm day. It will leave the ship from which it is thrown, to the east or west as the ship may be on one or the other side of the center of the stream. When it leaves the Florida Straits its waters are of a deep blue, differing much in color from those adjacent, and the boundary line is marked by the color for more than a hundred miles.

The stream does not always occupy the same position. In September it touches Nova Scotia and Newfoundland, but in March its northern limit is many miles further south. The temperature compared with the ocean waters shows a difference of from 20 to 30 degrees at the surface. This difference decreases with the depth of the water, and more rapidly at the north, showing there only a comparatively thin stratum of warm water, while off the Florida coast a difference is found at a great depth, proving, it is believed, the existence of an under current from the Arctic regions that goes to fill the place in the Gulf that would otherwise be left void.

It is computed that the force required to produce the Gulf Stream equals that which would drive 90,000 millions of tons up a grade of three inches in a mile at the rate of three miles an hour. To the warmer waters of the stream are owing many of the excellent fisheries along the Atlantic Coast. The fish prefer the cooler waters along shore, where they congregate in large numbers and are easily taken.—*Rural New Yorker.*

POISONOUS FIREWORKS.

A correspondent, referring to our article under the above heading stating that a lady in Bristol, N. H., died from the effects of fumes from red fire, doubts whether this was the cause of her death. But if the red fire used was such an absurd composition as nitrate of strontia, black sulphide of antimony, sulphur, and chlorate of potash, it is evident that the arising gases must be injurious to health. Many recipes current in newspapers, scientific books, and even school books, are bad, and are evidently copied from some old obsolete publication. "Properly made red fire," says our correspondent, "should contain no sulphur or antimony in any form whatever."—*Scientific American.*

Corn and oats will this year take the place of wheat in Wautonwan county, Minnesota.

—It is estimated that the number of ladies who cannot pass a mirror without glancing into it, averages about twelve to every dozen.

NOTICE TO MINERS.

United States Land Office, Helena, Montana, March 7, 1877. Albert J. Stephens, whose post office address is Camp Baker Meagher county, Montana Territory, has this day filed his application to enter as agricultural land, under the final homestead laws, the northeast quarter (N E qr) of section 22, township, No. 11 north, range No. 4 east, which land is suspended from entry. Notice is hereby given, that a hearing will be had at this office, on the seventeenth day of April A. D. 1877, at ten o'clock a. m., to determine as to the mineral or non-mineral character of said land, and testimony to be used upon said hearing will be taken before William Gaddis, a Notary Public at Camp Baker, Montana Territory, on the 14th day of April, A. D. 1877, at 10 o'clock a. m. It is alleged that there are no known miners, nor mining improvements, upon said land. J. H. MOE, Register.

March 15, 1877-17-5w.

SUMMONS.

IN THE PROBATE COURT OF MEAGHER COUNTY, TERRITORY OF MONTANA. CHARLES T. RADER, Plaintiff, vs. MAZDON FITZ, Defendant.

The People of the Territory of Montana send greeting to Mazdon Fitz, Defendant. You are hereby required to appear in an action brought against you by the above named Plaintiff in the Probate Court of Meagher County, Territory of Montana, and to answer the complaint filed therein, within ten days (exclusive of the day of service) after the service on you of this summons—

if served within this county; or, if served out of this county, but in this district, within twenty days; otherwise, within forty days—or judgment by default will be taken against you, according to the prayer of said complaint.

The said action is brought to recover the sum of Four Hundred and Ninety-Nine Dollars and Thirty-One Cents, alleged to be due from you to said Plaintiff, for money paid, laid out and expended for you, at your instance and request, and for your benefit, at Helena, Montana Territory, between the 7th day of April, 1876, and the 11th day of March, 1877.

And you are hereby notified that if you fail to appear and answer the said complaint, as above required, the said Plaintiff will take judgment against you for the sum of Four Hundred and Ninety-Nine Dollars and Thirty-One Cents, with interest and costs of suit.

Given under my hand and the Seal of the Probate Court of the County of Meagher, Territory of Montana, this 16th day of March, in the year of our Lord one thousand eight hundred and seventy-seven.

G. A. HAMPTON, Clerk.

OUR COMBINED CATALOGUE FOR 1877, OF EVERYTHING FOR THE GARDEN

Numbering 175 pages, with colored plate, SENT FREE To our customers of past years, and to all purchasers of our books, either Gardening for Profit, Practical Floriculture, or Gardening for Pleasure. (Price \$1.50 each, prepaid, by mail.) To others, on receipt of 25c. Plain Plant or Seed Catalogues, without plate, free to all. PETER HENDERSON & COMPANY, Seedsmen, Market Gardeners and Florists, 25 Cortlandt St., New York. January 25, 1877-2-10-5w.

THERE IS MONEY IN IT. EXEMPT FROM EXECUTION, AND NOT PERISHABLE. Special Inducements to the Trade. AGENTS WANTED

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WEED Family and Manufacturing SEWING MACHINES THEY ARE THE Simplest, Lightest Running, Best Made and Most Reliable Sewing Machines in the world. (Cut this out and remember it.) Address Weed Sewing Machine Co., 203 & 205 Wabash Ave., Chicago. For Sale by

FIRST NATIONAL BANK OF HELENA Designated Depository of the United States. S. T. HAUSER, President. D. C. CORBIN, Vice President. R. W. KNIGHT, Cashier. T. H. KLEINSCHMIDT, Ass't. Cashier.

We transact a general Banking business and buy at the highest rates, GOLD DUST, COIN, GOLD AND SILVER BULLION, And Local Securities; and sell Exchange and Telegraphic Transfers.

Available in all parts of the United States and Canada, Great Britain, Ireland and the Continent. Collections made and proceeds remitted promptly. Helena, January 20, 1876-11

W. M. PRICE & COMPANY, No. 14 SOUTH COMMERCIAL STREET, ST. LOUIS, MO.

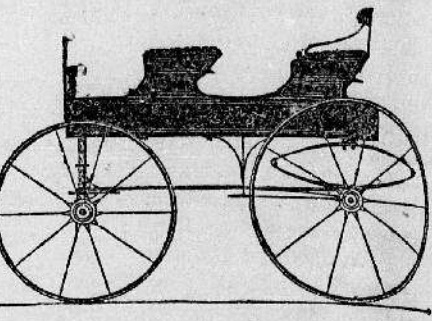


THE GRANGE WAGON.

WAGONS.	CARRIES.	WEIGHT.
2 1-2 in. Thin Skin, very light 2-h'se	1200 lbs.	\$48
2 3-4 in. " " light 2-horse	1500 lbs.	49
3 in. " " medium 2-horse	1800 lbs.	50
3 1-4 in. " " 2-horse	2400 lbs.	53
3 1-2 in. " " 3-h'e (light 4-h)	3200 lbs.	55
3 3-4 in. " " 4-horse	4000 lbs.	65
1 3-8 in. Iron Axle, very light 2-horse	1300 lbs.	53
1 1-2 in. " " light 2-horse	1600 lbs.	54
1 5-8 in. " " 2-horse	2000 lbs.	55
1 3-4 in. " " 3-h'e (light 4-h'e)	2500 lbs.	62
2 in. " " 4-horse	4000 lbs.	79

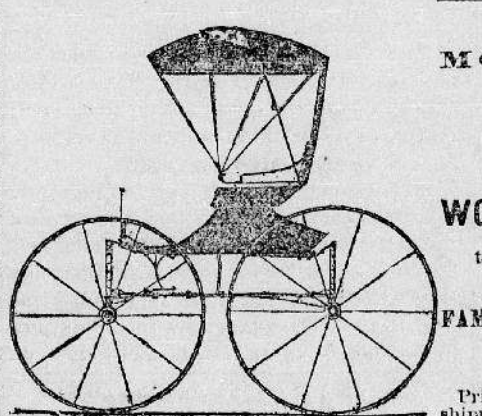
Spring Seats, \$4.00 extra, Two-leaf Springs, oil-tempered. Wheeler's Patent Brakes, \$4.50 extra.

COMMISSION AGENCY MISSOURI STATE GRANGE (Bonded in the sum of \$100,000. Manufacturers of THE GRANGE WAGON, Light Spring Wagons and Buggies, Reduction in prices for 1877.



SPRING WAGONS, FROM \$95.00 TO \$130.00. BUGGIES, FROM \$120.00 TO \$225.00.

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Riding Saddles, Riding Bridles, Horse Collars, Etc. Dress Oil, Pistol Holsters, Linen Sheets, Gigs, Saddles, Spanish Bits, Mexican Spurs,

ROUND AND FLAT BRIDLES, Ivory and Horn Martingale Rings,

Stage Lashes, Buggy Whips, Ankle Boots, Slipper Stirrups, Hill's Concord Harness, Buckskins, California Saddle Trees, Side Saddles, Curry Combs, Brushes, etc.

All Sales made at Lowest Cash Rates. January 20, 1876-1y

PEOPLE'S MEAT MARKET. KROFT & FLEMING

Keep constantly on hand the best quality of BEEF, PORK, MUTTON AND SAUSAGE

Nearly opposite the Husbandman Office, MAIN STREET, DIAMOND CITY, M. T. Nov. 25, 1875-1f.

HELENA AND DIAMOND CITY, STAGE LINE.

UNITED STATES MAIL. P. B. CLARK, - - Proprietor.

Coaches leave Helena Monday, Wednesday, and Friday, at 7 o'clock a. m. Leave Diamond City Tuesday, Thursday, and Saturday, at 7 o'clock, a. m.

HELENA AND BOZEMAN. Coaches leave Helena every morning, (Sundays excepted,) at 4 o'clock, a. m. Leave Bozeman every morning, (Sundays excepted,) at 4 o'clock, a. m. Passengers and freight carried at moderate rates.

OFFICES: HELENA—Davis & Wallace's, Main Street. BOZEMAN—Willson & Rich's, cor. Main and Bozeman Streets.

BOZEMAN AND VIRGINIA. Leaves Virginia City every Monday, Wednesday and Friday, at 4 o'clock, a. m. Leaves Bozeman Tuesday, Thursday and Saturday, at 4 o'clock, a. m. Office—in Virginia, at Raymond Bros.

BREWERS WHITE SULPHUR SPRINGS SMITH RIVER VALLEY, MEAGHER COUNTY, MONTANA.

These Springs are situated on the Helena and One roll road, 40 miles east of Diamond. The beautiful location and wonderful curative qualities of the Springs have already induced hundreds of invalids and pleasure seekers to visit them. Visitors will find good, comfortably furnished rooms, and the table supplied with the best the country affords.

TERMS REASONABLE. H. B. BRAINARD, June 29, 1876-22-6m.

COSMOPOLITAN HOTEL. Nos. 37 and 39 Main Street, HELENA, MONTANA.

Schwab & Zimmerman, Prop'rs

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TWO FINEST AND LARGEST BRICK AND STONE STRUCTURES IN THAT LINE IN THE CITY.

we can offer BETTER ACCOMMODATIONS

to the traveling public than any other house in the city, and defy competition. With this promise on our part, we ask the public to satisfy themselves. SCHWAB & ZIMMERMAN, Proprietors. Feb. 1, 1877-2-11-1f.

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FADED AND Falling HAIR The IMPROVED ARTICLE is now taking the lead over all others, leaving the hair clean, soft and glossy. C. A. COOK & CO., Chicago, Ill., Sole Agents for the United States and Canada. Sold by all Druggists everywhere. Trade supplied by all Wholesale Druggists.