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If you have lost your business advertise in the
Telephone-Register.
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YAMHILL IS THE BANNER AGRICULTURAL COUNTY in Oregon.
McMINNVILLE is the county seat and largest town, and the
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Circulation Guaranteed Greater Than That of Any Other Paper Published in Yamhill County.

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McMINNVILLE, OREGON, THURSDAY, JUNE 11, 1891.

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J. F. CALBREATH. E. E. GOUCHER.
Calbreath & Goucher,
PHYSICIANS AND SURGEONS,
McMINNVILLE, OREGON.
(Office over Bral's Bank.)

S. A. YOUNG, M. D.
Physician & Surgeon,
McMINNVILLE, OREGON.
Office and residence on D street. All calls promptly answered day or night.

DR. J. C. MICHAUX
Practicing Physician and Surgeon,
LAFAYETTE, OREGON.
Jan. 21, '88.

J. D. Baker M.D.,
SURGEON AND HOMEOPATHIC PHYSICIAN.
Office at B. F. Fuller's drug store. Residence, first house south of Baptist church, McMinville, Or.

JAMES BENNETT,
ARCHITECT.
Plans, Specifications, Elevations, Details, Personal Supervision of all work placed in my hands a specialty. Office—Up stairs in Campbell's Brick, North of Court House.
DALLAS, OREGON.

D. A. SMITH,
WATCHMAKER & JEWELER.
Shop With Hewitt Bros.
Charges Reasonable. Give me a call.
McMINNVILLE, OREGON.

WM. HOLL,
Watchmaker and Jeweler.
Dealer in All kinds of Watches, Jewelry, Plating Ware, Clocks and Spectacles, McMinville, Ore.

Eurisko Market,
J. S. HUBBS, Proprietor.
Fresh Meats of all kinds constantly on hand. Highest price paid for Butcher's stock.
THIRD STREET, McMINNVILLE, ORE.

The People's Market.
Carries the Best Line of Choice Meats in the City. Game and Fish in Season. Poultry, hams, etc., bought for the highest market price and cash paid for same. Your attention is called to the fact that we always serve the best meats to be found. Your patronage is solicited.
BOND & FLETCHER.
McMINNVILLE

TRUCK AND DRAY CO.,
CARLIN & HIGG, Proprietors.
Goods of all descriptions moved and careful handling guaranteed. Collections will be made monthly. Hauling of all kinds done cheap.

GEO. RAMAGE,
The painter, paper hanger, kalsominer and decorator can be found during the day hard at work and will be very willing indeed to give estimates and furnish designs for all classes of work. On June 1, a shop will be opened opposite the Cook House. 11-24.

The St. Charles Hotel.
Sample rooms in connection.
Is now fitted up in first class order.
Accommodations as good as can be found in the city.
S. E. MESSINGER, Manager.

COTTAGE SANITARIUM!
At Mt. Tabor.
Portland's Most Beautiful Suburb.
For the treatment of Nervous Diseases, especially those suffering from nervous exhaustion and prostration, chronic diseases and all those who need quiet and rest, good nursing, massage and constant medical care. At Mt. Tabor will be found pure air, absolutely free from malaria, good water, beautiful surroundings and magnificent views. Ample references given if desired. For further particulars, address the physician in charge.
OSMON ROYAL, M. D.,
Ninth & Morrison Sts., Portland, Oregon.

Harness and Saddles.
ELSIA WRIGHT.
Carries the Largest Assortment of Harness and Saddle Goods.
LARGEST STOCK IN YAMHILL COUNTY.
Harness of all kinds Made to Order. Re-hairing Saddle Bows.
Robes, Whips and all the Necessaries are Kept in Stock in Endless Variety.
Call and See Stock. Store on Third Street, McMinville, Oregon.

THE COMMERCIAL STABLE!
Gates & Henry, Props.
McMinville, Oregon.

Livery, Feed and Sal!
Everything New
And First-class.
Special Accommodations for Commercial Travellers.
Corner Second and E Streets, one block fourth Cooks hotel.

HENDERSON & GAUNT
DEALERS IN—
STAPLE AND FANCY GROCERIES.
The Finest Line of Confectionery in the City.
All kinds of Produce taken at the HIGHEST MARKET PRICE.
Call and examine our Stock and get Prices.
HENDERSON & GAUNT.

DR. PRICE'S
Cream Baking Powder
Used in Millions of Homes—40 Years the Standard.

HEWITT BROS. ALWAYS KEEP ON HAND
A COMPLETE LINE OF
BOOKS, STATIONARY, MUSICAL GOODS,
AT THE LOWEST PRICES.

Vehicles and Wagons!
When buying anything in this line it is well to remember that the cheapest is not the best our vehicles are of

The Finest Material and Most Skilled Workmanship!
And must necessarily cost more than those of inferior material.
Our Stock Consists of

RICE COIL SPRING, BREWSTER SIDE BARS,
DEXTER SPING FAIRY, ELLIPTIC SPRINGS,
PHÆTONS, JUMP-SEATS, BAROUCHES, ETC., ETC.
Also the Celebrated Studebaker Wagons,
All these vehicles were bought direct from the factories, hence we are in a position to give you good bargains.

JOHNSON & NELSON,
B Street, McMinville, Oregon.

OREGON, 5,709.
(OREGON WILKES.)

REGISTERED IN WALLACE'S TROTTING REGISTER, VOL. 7.
This Nightly Bred Trotting Stallion will make the Season of 1891 at the Fair Grounds, McMinville, Oregon.

DESCRIPTION.—A beautiful Bay, black points and a little white around left hind coronet, 16 hands high and weighs 1200 pounds, very symmetrical in form, combining fine style and substance.

PEDIGREE:
Foaled in 1880 by Lyle Wilkes, sire of Mattie Wilkes, 2:30; Konantz, 2:29; Chief, 2:26; Danville Wilkes, 2:27; sire of Sally Veje, 2:28.
First dam, Maggie Hamlet, by Hamlet, sire of Loretta F, 2:18; A.V. Pantline, 2:20; and 5 others with records better than 2:30; and sire of the dams of 15 with records from 2:16 to 2:20.

Second dam, the great show mare Chum, formerly Mattie Kenny, dam of Leland Stanford, 2:29; sixth level on half mile track by Duke's Norman, by Alexander's Norman, sire of Lulu, 2:14; May Queen, 2:30; records better than 2:30; also sire of the dam of Norval, 2:17, the sire of Norland who holds the best yearling record, 2:31. (Duke's Norman is thoroughbred on dam's side; 1st dam by John Richards, 2d dam by Lance by American Eclipse, 3d dam by Hephastion.)

Third dam, Rose Kenny, the dam of Messenger Chief, sire of Maid Messenger, 2:16; Sam Jones, 2:18; Col. Bradshaw, 2:20; Abel 2:24, etc., and full sister of Gen. Geo. H. Thomas, sire of Scott's Thomas, 2:21; Katherine T., 2:20, and four others in the 2:30 list. By Mambrino Messenger, by Mambrino Paymaster, sire of Mambrino Chief.

Fourth Dam Lady Messenger by Mambrino Chief.
TERMS.—\$40 for the season, with the privilege of return in case of failure to get foal. Money due on July 1, 1891, either cash or by note at 10 per cent. No responsibility for accidents or escapes, but great care will be taken to prevent either. For further particulars apply to

CHAS. WOODS,
YOUNG HAMBLETONIAN!
Will make the Season of 1891
At the McMinville Fair Grounds.
TERMS: (Due at the time of Service) \$10.
Season, (Due July 1, 1891.) 15.
Insurance, (Due when mare is known to be with foal.) 20.

DESCRIPTION AND PEDIGREE:
Young Hambletonian, dapple bay, stands 16½ hands high and weighs 1350 pounds; sired by Hambletonian Mambrino (5241) now standing at \$200; sire of Jane L 2:19; Fred Hambletonian, 2:26; Kitty Ham, 2:26; Susie S, 2:26; Laddie, double team record 2:38; Hamlin, double team record at 3 years old 2:38 and the dam of Lady Beach, 2:26; dam by Milton son of Royal George, half brother to Old Kate, mother of Fantasia; 2d dam by Oregon Pathfinder (10981).
Young Hambletonian is very stylish, and notwithstanding he has never been trained, shows much speed.

J. W. GILE, Proprietor.
CHAS. WOODS, Manager, McMinville.

FIRE BACK WARRANTED
Twenty Years
The Only Store that Gives a
WRITTEN GUARANTEE
Signed by the Officers of the Company.
The Only Store that is Trimmed With
White Enamelled Pot, Kettle and Skillet,
At the Same Price others sell you the
COMMON BLACK CASTING
—IN FACT THE—
PENINSULAR
STOVES & RANGES
LEAD THE WORLD.
I have just received a carload of stoves and Ranges of all shapes, sizes and styles and I NEVER PAY FOR MY GOODS, I will sell them cheap, This beats the old Gag "Spot Cash and no Rent to Pay."
A full line of Hardware on the same terms.

McMinville
Marble and Granite Works
Is now prepared to furnish all kinds of **Cemetery Work and Monuments!**
All kinds of **AMERICAN AND ITALIAN MARBLE, SCOTCH AND AMERICAN GRANITE**
Parties wishing work of this kind would do well to call and get our prices before purchasing elsewhere.
I. R. A. MILLER,
Broadstreet.

SUGAR BEET CULTIVATION.

The cultivation of sugar beets in this country is making some progress, the work of the department of agriculture having assisted materially in promoting the new industry. Sugar beets require methods of cultivation which are in many respects unlike those employed in the raising of other crops. The failures which have attended their cultivation have been due more to ignorance of these methods, or non-compliance with them, than to lack of proper climatic conditions or inadaptability of soil.

The department last year secured from Germany over three tons of beet seeds selected from the best varieties grown there. These were distributed in one-pound packages to farmers in the sugar-beet belt of the United States. The larger portion was sent to Nebraska, Kansas, and Minnesota, states which are next to California, the best adapted to the cultivation of sugar beets. An inspection of the methods employed by the farmers in different sections was made, and the cases in which the improved methods of cultivating were carried out rather than the rule. In most instances the farmers had pursued methods of their own invention, and their products varied accordingly. The difference between the beets cultivated according to the instructions of the department and those produced by other methods was very great. This was seen not so much in the size of the beets as in the per cent. of sugar contained in them. The experiments demonstrated conclusively the superiority of the methods prescribed by the department.

The results attained last year were far from satisfactory in most sections of the country. The weather in both Kansas and Nebraska was unfavorable for the growth of beets, as it was for other crops. It is estimated that the average yield per acre in Nebraska was between two and three tons, while in Kansas it was probably somewhat higher. The experiments made in Minnesota and Wisconsin were more favorable. A report by Henry W. Wilson, secretary of the department, on the cultivation of beets in Wisconsin: "But very few of the farmers who sent in beets to the stations for analysis had previously had any experience in growing beets. Besides this, some of the beets were grown for stock food, with no intention of testing their sugar-producing capacity. Where grown for sugar, and where good care was bestowed, the beets contained a high percentage of sugar. While the products of many of the foreign countries have been rated by capitalists than those of our operated by the farmers has frequently been the result of the better machinery used in the former than in the latter. This necessity of using special machinery is not confined to the production of sugar, but also applies to the cultivation of the beets. The tendency which is now seen in both France and Germany, and particularly in France, to enlarge the beet farms, is due to the necessity which the producers feel of using better agricultural machinery. It is said that in the northern department of France, where the culture is on the large system the industry is expanding and gaining the most ground.

The condition of the German beet grower is described by Prof. Mæcker as follows: "Our farmers are in good circumstances, which have been improved with their general system of agriculture by the introduction of the sugar-beet industry. The German has made a decided feature of advantage over the French system, in France the farmers contract with the large growers and owners of factories to grow a given acreage of beets and deliver the same to the factories. In Germany the growers of the beets are the manufacturers, and they reap a gain in the growth of the beet and the production of the sugar."
The owners of the factories now in operation in this country have found their beet-lands rather a large part of them or rented from neighboring farmers. The whole tendency in this country is to separate the farmer from the manufacturer. The unwillingness of the farmer to comply with the instructions furnished by the agricultural department shows the necessity of inducing the growers to take a personal interest in the success of the factories. In this way, it is thought, the beet lands will be secured, and at the same time larger crops. Until these two things are obtained, the permanent establishment of the beet-sugar industry in this country will be in doubt. Capitalists are willing to invest in factories if they can receive assurance of sufficient crops to run them. The following from the report of the department of agriculture shows what progress is being made in this line: "The industry has been encouraged by last season's work that they have decided to erect another large factory at Norfolk, Neb., and at the Ohio Ranch in south-western California, and work on these factories is now going on." The successful operation of the California and Nebraska factories is a fair indication of what may be gained from an extension of this industry. With a soil and climate perfectly adapted to the cultivation of the beet, the education of the producers to proper methods of cultivation seems likely to follow ultimately.

GENESIS OF TORNADES.

If We Can't Turn Them Aside, Let us Watch Them.

The fatal energy with which the season for Western tornadoes has opened this week emphasizes the need of further research to ascertain the causes of these gigantic storms and how to forestall them. Theories of their genesis are plentiful, but none of these has ever enabled meteorologists to make a timely and practical prediction as to when and where approximately the whirling monster of the air will fall. If prediction could do more than specify the day and section in which the tornado would strike, much would be accomplished. But before this becomes possible the true cause of the deadly tempest must be learned. The favorite hypothesis that a tornado is formed by an ascent or bursting up of air from the lower through the upper strata of the atmosphere when unstable equilibrium exist and the air acquires at least a slight initial whirling motion has apparently had its day. It is at best a very incomplete explanation of the remarkable geographical and seasonal distribution, as well as the mechanical phenomena, of tornadoes. The atmosphere is often observed to acquire initial whirling motion under conditions of unstable equilibrium when no tornado is bred. Whenever the warm, vapor trade wind is drawn northward over the Mississippi Valley the equilibrium of the air is disturbed, and whenever it comes in contact with a northwest wind a whirl necessarily ensues. Were these conditions adequate to produce tornadoes we should have to chronicle them at all seasons, and much effort in spring and summer than they have ever been known to occur. Moreover, if ascending currents can originate a cyclone of any kind, it would follow that the equatorial ocean, where there are all the year the greatest ascending currents, would be prolific of storms, while, in fact, it is of all regions of the globe the calmest. Some striking facts go to show that the fatal tornado never forms except at periods when there is unusual activity in the irresistible upper tropical currents, moving from the equator toward the north, with an observed velocity exceeding one hundred miles an hour and descending on our western plains and valleys. This was evidently the case on Wednesday, May 20th, just before the Missouri tornado appeared, at 3 p. m. From 8 a. m. to 8 p. m., while a feeble general cyclone was drifting from the Dakotas to Lake Superior, the barometer was everywhere rising, from Texas and the Gulf coast northward to Missouri and Illinois, and the increase of pressure coincided into the storm with southerly winds. This was the first time such a pronounced and universal rise of the barometer over the southwest has been observed for a considerable period. It is natural, therefore, to conclude that the descent of the upper tropical current from the southwest was then taking place in the Mississippi Valley. Simultaneously, in the rear of the Dakota cyclone, quite a strong surface current from the northwest was pressing down the valley of the Missouri river toward the region where the Missouri river and tropical current was apparently descending, within which Wednesday's tornado did its terrible work. All the essential phenomena of cyclonic storms can be satisfactorily explained by just such a mechanical conflict as is thus indicated, the ascending current being merely a consequence, not the cause, of the storm. Many of the ablest meteorologists, as Redfield and Dove, reached this conclusion more than a quarter of a century ago. But the recent observation of cyclonic and anti-cyclonic by Dr. H. H. Safford, at different altitudes on the Austrian Alps seem to have conclusively established it. It appears evident, therefore, that no decided progress will ever be made in predicting tornadoes or any other class of revolving storms until meteorology can discover some method of observing instrumentally the movements of the gigantic upper currents, which, descending into the lower atmosphere, are resolved into terrific whirls, within whose vortex the human race is suddenly rattled so intensely that ascending currents are set up and the upborne vapor, instantaneously cooled by expansion, is condensed into destructive torrents or "cloud bursts." If the United States had, as Europe, an Alpine mountain wall stretching east and west along our Southern borders to protect us from the full force of the descending current, we should be as exempt from tornadoes as the Old World is. Since we cannot turn aside this mighty generator of cyclones, we should at least watch its movements.—*New York Herald.*

MAXIM'S FLYING MACHINE.

The Inventor of the Rapid Firing Cannon Tackles the Air.

Maxim, the famous gunmaker, thinks that if he lives long enough he will be able to revolutionize the world, and he proposes to do it with flying machines. There is this difference between Mr. Maxim and the majority of those who have broached schemes for traversing the air with the same ease and safety which accompanies travel by land or water. Mr. Maxim has been a thoroughly practical person to the extent of acquiring many shakels, and if he has suddenly gone wrong in the upper story, he probably has the money to humor his vagaries, and need not make periodical raids upon the pockets of other people. But Mr. Maxim discusses his views of aerial navigation with an apparently approach to common sense than have many who have preceded him. He has discarded the bird as a model. "It is not necessary to imitate the flapping of wings in making a flying machine," he says. "Suppose Stephenson had said that as a horse was the most perfect form of locomotion over roads and fields, he would make his steam engine walk; what speed would he have secured?" This, though a simple illustration, indicates real progress. The cardinal error of most pioneers in aerial navigation has consisted in following nature. They have imagined that success depended upon wings, unmindful of the fact that man has improved upon nature in almost every branch of existence. The inclined plane plays an important part in Mr. Maxim's scheme. It has performed the same office in the plans of others; but, unfortunately, the engine he has invented, instead of indicating real progress, the cardinal error of most pioneers in aerial navigation has consisted in following nature. They have imagined that success depended upon wings, unmindful of the fact that man has improved upon nature in almost every branch of existence. The inclined plane plays an important part in Mr. Maxim's scheme. 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