

HORSES WILL BE IN BIG DEMAND

FANCY PRICES ARE EXPECTED

Renewed Activity in European War Zone Is Expected to Have Prominent Effect Upon Local Market—Buyers Are in the Field.

Central Oregon horsemen, it is confidently expected, are again this year going to command fancy prices for horse flesh. Renewed activity in the European war zone and impending action across the Rio Grande will, believe the horsemen of Central Oregon, create an active demand for sound horses during all of the coming three or four months.

Already, it is understood, several buyers representing eastern and middle west firms are in the field negotiating, as yet on a small scale, for the purchase of a large number of horses for early shipments. It is estimated that more than 500 head of horses have been shipped from Crook, Lake, Harney and Klamath counties so far this spring and summer, and as the months advance the activity will be greater.

War Stimulates Market.

Should the great Allied offensive continue for any length of time on the western front of Europe, with the loss of horses that is daily going on, there is little doubt that the demand for American horses and mules will be even keener than last year, when horses at the close of last summer could bring almost any price that the horsemen could quote. Coupled with the European situation any aggressive upon the part of the United States on Mexican soil, it is expected, will add to the demand for both cavalry and heavy draft horses for army purposes. It is understood that a big contract is being made through the War department for the purchase of more than 10,000 head of horses should the United States take action in Mexico.

The situation as confronts the buyers this year is considerably different from last year. The large numbers of horses that went out of the United States of first grade has greatly decreased the availability of first grade stock of this year in as large numbers as last summer. Inferior and lighter horses will be taken this year that were rejected last summer by many eastern buyers. The prices for lower grades, however, it is said, will be about equal to the first grade of last year.

For Summer Troubles.

Hay fever afflicts thousands and asthma sufferers endure torture. Foley's Honey and Tar gives relief. It allays inflammation, clears air passages, eases rasping cough, soothes and heals. This wholesome family remedy contains no opiates—a bottle lasts a long time. Sold everywhere.—Adv.

Four chairs at your service at the Metropolitan. No waiting.—Adv.

PAVINGS ARE DISCUSSED

To The Editor:

In view of a feeling by numerous citizens of Bend that the cinders on our streets are not proving successful and their agitation for more permanent paving, a few words on the numerous kinds of pavements and their costs may not be out of place.

The principal pavements now in use on this coast are concrete, Haasam, Granite, Water bound Macadam, Wood block, Vitrified Brick, Stone Block, Sheet Asphalt, Asphaltic Concrete and Bitulithic or Warrenite paving.

In laying any of the above named pavements, the street or road must first be graded to sub-grade, which is the bottom of the permanent pavement, and a proper drainage system for the street installed. The sub-grade is thoroughly rolled or compacted by tamping after which the permanent pavement is laid in various courses according to the kind of pavement specified. When the pavement has been laid it is usual to shut off all traffic from the street until the paving has thoroughly set or cured, which varies with the kind of paving.

Concrete paving consists of a mixture of broken or crushed stone, sand and Portland cement in various proportions. The City of Portland specifies that concrete shall consist of 1 part (by volume) of Portland cement, 2 parts of concrete sand, and 4 parts of broken stone. These may be mixed either by hand or mixing machine with sufficient water, poured and tamped, after which a surface coat of 1 part of Portland cement to 2 of concrete sand is laid as a finishing coat, similar to the finishing coat on concrete sidewalks. The pavement is kept thoroughly sprinkled and traffic kept off for 7 days or more until concrete has thoroughly set. The thickness of paving depends

on the conditions, varying from 4 to 12 inches.

Haasam and Granite paving are forms of concrete paving which have been patented. They consist of several layers of varied sized broken stone, thoroughly rolled with a grouting of 1 part of Portland cement to 2 parts of sand forced into the voids and the surface dressing broomed to an even surface for the Haasam and finished with a special tool to resemble granite in the case of Granite.

Water bound Macadam consists of two courses or more of broken stone rolled with sufficient water to a compact mass. The bottom course consisting of broken stone from 1 to 3 inches in size thoroughly rolled, with a top coat of broken stone from one half to one inch and finer. The water and rolling being the only binding in water bound macadam. Oil bound macadam is more of a concrete.

Wood block and vitrified brick both have a concrete base with a cushion of sand and the wood block or vitrified brick as a wearing coat. Wood blocks are 4x4x8 inches, made mostly of Douglas and Yellow Fir, and sometimes of cedar, eucalyptus, or southern long leaf yellow pine, thoroughly treated with creosote or carbolineum and laid with joints not to exceed one fourth inch which are filled with hot sand, and then rolled with a light road roller. The surface is covered with fine crushed gravel and again rolled, which process is repeated in from 5 to 10 days and the surplus material swept away. With vitrified brick paving a special brick is used, laid with a maximum joint of one half inch, with joint filled with cement grouting after which pavement is rolled. Stone block paving is laid similar to vitrified brick but the foundation coat of concrete has a cushion of sand and cement on which the stone blocks are laid and the joints between the blocks are filled with cement grout, as for brick paving.

Sheet asphalt or bituminous paving can have either a crushed stone or macadam or concrete base, with a wearing coat of bituminous material from one half to two and one half inches thick.

Asphaltic concrete and bituminous macadam derive their names from the binder used which is asphaltic oil instead of Portland cement as in ordinary concrete. The foundation for this paving is either crushed rock or concrete. Bitulithic or Warrenite are asphaltic concretes in which the proportions of materials have been patented. Both asphaltic and bitulithic may be laid on old macadam or sheet asphalt roads.

Costs of these pavements vary considerably, and the following are taken from costs in Multnomah county for 1915 and other sources.

- Concrete, \$1.45 to \$1.95 per sq. yd.
- Haasam \$1.00 to \$1.25 per sq. yd.
- Water bound macadam, 90c to \$1.20 per square yard.
- Wood block on concrete base, \$2.47 to \$2.77 per sq. yd.
- Brick on concrete base, \$1.60 to \$2.00 per sq. yd.
- Stone block on concrete, \$2.70 to \$3.50 per sq. yd.
- Sheet asphalt on concrete, \$1.40 to \$3.25 per sq. yd.
- Asphaltic concrete, 50c to \$1.75 per sq. yd.
- Bitulithic on crushed rock, \$1.44 to \$1.85 per sq. yd.
- Bitulithic on concrete, \$2.08 per sq. yd.
- Cinders, 40c to 60c per sq. yd.

Prices vary according to the thickness of paving, and in case of the patented paving like Bitulithic there is a royalty to pay which in Multnomah county for 1915 averaged 36.4 cents per square yard. The prices in Bend and Central Oregon will be higher than in Portland on Asphalt, Asphalt Oils, Cement, etc., since all supplies of this kind are from 10 to 50 per cent higher here. Our natural road materials consist of crushed lava rock, crushed gravel and cinders. The report which the City of Bend had made on these materials in 1913 showed cinders good for only very light traffic but not for concrete; crushed basaltic lava rock, good for medium heavy traffic and for concrete; crushed gravel compares with the best in the state and good for very heavy traffic and excellent for concrete.

Finally, in making any public improvement our proposed charter revision will make it easier for the property improved, since it is possible to form an improvement district of the property benefited, and issue bonds for the special improvement which bonds are retired in 20 equal semi-annual payments. This is a great improvement over the district assessment method originally in force. The maintenance of these roads, as I understand the amendment, can be taken care of in the bond issue.

Yours very truly,
GEO. S. YOUNG.

Every Tuesday night. Dance given by the Bend band at The New Hippodrome.—Adv.

Clean up and paint up. See Edwards.—Adv.

A desirable bread knife free with every annual subscription to The Bend Bulletin.

ONE CENT A WORD is all a little. Want Ad will cost you.

Is Your Name There

The following is a list of the business men and firms in Bend, who as members of the Bond Commercial Club contribute to the support of the club in its work for the benefit of the city. Is your name there? If not just tell the manager, Charles W. Erskine, that you wish to join and begin to do your part toward the betterment of Bend.

- Allen, H. E.
- Aune, Theo.
- Aune, Anton.
- Bend Hardware Company.
- Bend Bulletin.
- Bennett, Louis.
- Bend Company.
- Bend Garage.
- Brosterhaus, Ed.
- Baker, H. E.
- B. W. L. & P. Co.
- Brooks, H. K.
- Beesley, J. T.
- Barnes, W. D. (Farmer)
- Becker, F. D.
- Bend Cafe.
- Corbett, J. H.
- Coe, Dr. U. C.
- Carroll, Chas.
- Cobb, W. L.
- Cato, H.
- Carmody Bros.
- Central Ore. Credit Bureau.
- Dement, Floyd & Co.
- Denman, E.
- Davis, D. M.
- Danielson, M. J.
- Dr. Armond, H. H.
- Ellis, H. C.
- Eastes, J. A.
- Edwards, A. E.
- Eagan, A. C.
- Engelbreton, J. E.
- Erskine, Chas. W.
- Forbes, V. A.
- Faulkner, Dr. W. W.
- French, A. L.
- First National Bank.
- Ferrell, Dr. B.
- Francis, Dr. Chas. H.
- Garrison, P. C.
- Gould, R. B.
- Hudson, C. S.
- Hunter, D. E.
- Huey & Oliver.
- Hopkins, H. L.
- Hornor, G. W.
- Jones, Geo. (Farmer)
- Jennings, H.
- Johnson, Carl.
- Keyes, J. P.
- Kroenert, A. J.
- Ketchum, Dr.
- Lara, E. M.
- Larson, J. E.
- Logan, E. F.
- McKay, Clyde
- Mansheimer Bros.
- Metropolitan.
- Manning, Dr. W. G.
- McReynolds, L. G.
- McCann, T. A.
- Miller Lumber Co.
- Martin & Saye.
- Miller, Dr. Dwight F.
- McIntosh, Mrs. S.
- Norton H. G.
- O'Donnell, W. L.
- O'Kane, Hugh.
- Overturf, H. J.
- Owl Pharmacy.
- Pringle, A. M.
- Putnam, G. P.
- Pearl, E.
- Ryan, James.
- Reed & Horton.
- Roberts, S. E.
- Richter, J. C.
- Rudow, L. C.
- Smith, R. M.
- Steidl, John.
- Skuse, H. W.
- Smith, N. P.
- Sawyer, R. W.
- Short, Chas.
- Southwick, N. A.
- Symons, M. A.
- Silvis, Chas.
- Stover, B. A.
- Sipchen, Chas. (Farmer)
- Sullivan, F. W.
- Simmons & Blackwell.
- Thompson, E. M.
- Todd, R. J.
- United Warehouse.
- Vandever, Dr. Clinton.
- Wright Hotel.
- Warner's.
- Young, Geo. S.

GIVE BABY A CHANCE.

Bad air, bad milk, over-crowding, poverty, dirt, ignorance, heat—these combine in summer to kill the city baby. It seems as though the brunt of the city's sanitary sins are focused on the baby. The baby didn't ask to come, to live in a hot, dark, air-tight apartment, to be fed on dirty, half spoiled milk, to be pestered with flies and mosquitoes. He is not responsible for any of these conditions and it is his right that he have fresh air, clean surroundings and decent food. The United States Public Health Service issues free of charge to all applicants a bulletin on "The Summer Care of Infants." It should be in the hands of every mother.

Her Left Side Hurt.

Mrs. Laura Beall, Plattsburg, Miss. writes: "Last April I got in bad health; my left side hurt all the time. I had symptoms of Bright's disease. I took Foley Kidney Pills and feel all right now." They quickly relieve backache, rheumatism, aches and pains. Bladder troubles, too, are corrected by this remedy. Sold everywhere.—Adv.

You can get delicious creamy cottage cheese at American Bakery or O'Donnell's market. Ask for it. If

A desirable bread knife free with every annual subscription to The Bend Bulletin.

ELECTING A PRESIDENT



JEFFERSON.

Jefferson Elected by House of Representatives.

THE Democratic Republicans supported Thomas Jefferson for president and Aaron Burr for vice president in 1800. The Federalists supported John Adams and C. C. Pinckney. The vote, as counted on Feb. 11, 1801, was:

Jefferson, 73; Burr, 73; Adams, 65; Pinckney, 64; Jay, 1.

No one having received a majority of the votes cast, the house of representatives proceeded on the same day to elect a president. The balloting continued for six days, and finally Jefferson received the votes of a majority of the states and was declared elected. Sixteen states voted.

Jefferson defeated C. C. Pinckney of South Carolina by a big majority in the election of 1801.

(Watch for the election of Madison in 1808 in our next issue.)

How to Live Long

Rules reprinted by permission of Metropolitan Life Insurance Company from booklet issued by it.

ACTIVITY—RULE 14.

Work Hard, But Play and Rest Too.

"All work and no play makes Jack a dull boy." To be healthy and happy we must all work, but we should also rest and play. Those who do hard physical work all day should play simple games, like checkers or cards to work their minds. This will let the tired muscles rest. Read good newspapers and books. Tell jokes and stories. Laughter is very healthy.

James J. Corbett

by Walt Mason

Once there were giants in the land, men who could scrap to beat the band. In modern times the cheapest skates are known as champeen heavyweights, but long ago, when Jim was young, men didn't fight with jaw or lung, but used their fists, and used them well—brave days of Jackson and John L.! They slugged away, while they could stand, when there were giants in the land. And Corbett won his laurels then, among those mighty fighting men. He was the champion when that meant something more than getting fat, and standing, in a graceful pose, to figure in the movie shows. He's an authority on sport, and his decrees the wise ones court. He's an authority on smokes, and as his trusty pipe he stokes, he often says, "Tuxedo's best; it has the edge on all the rest."

JAS. J. CORBETT
Famous Prizefighter and Actor, says:
"My enthusiasm for the fragrance and mildness of Tuxedo has no limit. Tuxedo is without doubt the most satisfactory pipe tobacco."

When you come home tired out, lie down for a few minutes. Sleep for a few minutes if you can. Even fifteen minutes of rest or sleep will refresh you greatly, especially before eating.

If you have been sitting in an office all day, your brain is tired when you stop. Your body needs exercise to make your brain forget the work. Any bodily work, like walking home, sawing wood, or shoveling snow, or throwing a baseball, or wrestling or boxing will do you good.

If your eyes hurt, see your doctor. If you need eye-glasses, have a competent oculist prescribe them.

Do not make work out of your play. When your play seems like work, stop it.

Sleep all you need to. If possible, walk fifteen minutes outdoors before you go to bed. Do not eat heavily or read exciting stories just before you go to bed.

Drive out of your mind any things that worry you before you go to bed. If you cannot sleep at first, breathe deeply and slowly. Take a lukewarm bath or drink a glass of warm milk. These things will rest you and often make you sleepy.

DO YOU KNOW THAT

- Intelligent motherhood con-
- serves the nation's best crop?
- Heavy eating like heavy
- drinking shortens life?
- The registration of sickness
- is even more important than
- The registration of death?
- The U. S. Public Health Ser-
- vice co-operates with state and
- local authorities to improve rur-
- al sanitation?
- Many a severe cold ends in
- tuberculosis?
- Sedentary habits shorten life?
- Neglected adenoids and defec-
- tive teeth in childhood menace
- adult health?
- A low infant mortality rate
- indicates high community in-
- telligence?

A desirable bread knife free with every annual subscription to The Bend Bulletin.

See J. Ryan & Co., for farm land loans.—Adv.

For sign painting see Edwards.—Adv.

For the man who wants to own his own home

Let us show you, for your selection, some of the prettiest lots in Bend. They are level and free from rock and are spotted with lovely shade trees; they are within fifteen minutes walk of either of the big mills and are close to the business district. These lots may be had on terms that are within the reach of all and every assistance will be given our buyers to enable them to build a comfortable home. We will be pleased to show you.

INSURANCE THAT INSURES

We write insurance in all its branches in world known companies and will gladly accept the smallest risk.

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Bend Park Company

PHONE 351. OFFICE ON OREGON STREET.