

**POULTRY AND GAME**  
Can get you fancy prices for Wild Ducks and other game in season. Write us for each offer on all kinds of poultry, pork, etc.

**Pearson-Page Co., Portland**

HOWARD E. BURTON—Assayer and Chemist. Leadville, Colorado. Specimens, prices, gold, silver, lead, tin, coal, oil, etc. Also, assay of copper, iron, nickel, etc. Full analysis of all ores and minerals. Complete and complete work on all applications. Contact and Empire work on all. Reference: Carbonate National Bank.

**Machinery** Second-Hand Machinery—very bought, sold and exchanged; engines, boilers, sawmills, etc. The J. E. Martin Co., 25 1st St., Portland. Send for stock list and prices.

**Ship us your VEAL, PORK, POULTRY, HIDES**  
We guarantee top prices and CREDIT BY RETURN MAIL. Each article, when shipped, will be paid for one year on request to all who make shipments during January one year's extension to other Northwest countries. (Pacific Northwest, Portland, Ore., Portland, Ore., Portland, Ore.) Please tell your agent how about our liberal offer. Ship to:

**F. H. SCHMALZ & CO.**  
Portland, Ore. 141-143 First St., PORTLAND, ORE.

**RAW FURS WANTED**  
Highest Market Price Paid  
We to H. LIEBES & CO.  
J. P. Finckelmann, Mgr.  
MANUFACTURING FURRIERS  
208 Madison St. Portland, Ore.  
Tel. Five South Park. Portland, Ore.

**SAVE MIDDLEMAN'S PROFIT**  
of \$100 or more by buying your Piano or Player Piano direct from factory store.

**BURH & LANE PIANO COMPANY**  
325 Washington St., Portland, Or.

**LIME FERTILIZER**  
Also Land Plaster, Lime, Cement, Wall Plaster and Shingles. Write for prices.

**NOTTINGHAM & CO.**  
102 Front Street. PORTLAND, ORE.

**BANDMEN: We are Sole**  
**HOLTON and BUESCHER**  
band instruments. The most complete stock of Musical Merchandise in the Northwest.  
Write for Catalogue.

**REIBERLING-LUCAS MUSIC CO.**  
134 Second Street. Portland, Oregon

**HUNTERS! TRAPPERS!**  
Deal direct with manufacturer. We pay the highest prices for Raw Furs. Write for free price list and shipping tags.

**N. M. UNGAR CO., FURRIERS**  
191 Seventh Street. PORTLAND, ORE.

**As courage is pre-eminently the virtue of men, so it is the virtue which most powerfully challenges the respect and emulation of men. And it deserves this pre-eminence, for it is also the virtue which gives security to all the other virtues.—Lowell.**

**Pretty Sure.**  
Whenever a man is threatened by the deep sea he is pretty sure to find the devil on the other side of him.

**WILLOW RIVER**  
British Columbia.

The first registered townsite on the Grand Trunk Pacific Railway. The heart of a country larger than Oregon in natural resources. On the Fraser river with over 1000 miles of navigable waterways. The terminus of the Pacific & Hudson Bay Railway to the Peace River country. Several other railroads laying plans to build into the townsite. Standing timber in large quantities in all directions. Agricultural lands in abundance, that can be pre-empted or purchased direct from the government. Gold in the sands of Willow River for placer mining and the mining camp, Barkerville, only 110 miles away. Coal is estimated to be sufficient to last all Canada for a century; located in the Bear River district, only 16 miles distant. With these natural resources and the railroad extending miles into the interior, the railroad is a great undeveloped empire, isn't that enough to insure a "City of Importance"? What more would you ask? Lots are priced low. Terms are easy. Advance of \$100 per lot on January 18, 1923. When the Grand Trunk Pacific trains are running into town next summer from Winnipeg and the East your lots will be worth several times what they are today. Willow River will certainly be another Edmonton, Calgary or Prince Rupert. Send for plat today that you may get a good selection before the advance of prices. Write to:

**V. PAGE HARRIS, Agt. for Oregon,**  
609 Heavy Bldg., Portland, Or.

**This Weather Causes Sickness**  
Grippe, Colds and Pneumonia Come From Run Down Condition.

**C. Gee Wo**

**THE CHINESE DOCTOR**  
This wonderful man has made a life study of the properties and actions of roots, herbs, barks and bark on the human system. Many of the remedies which this man uses are scarcely known to the scientists of this country, and in Chinese families are handed down from father to son and kept a profound secret. Most of these remedies are imported from far-off Asia to his large laboratory at 1614 First Street.

It seems almost a miracle to many patients who have called on this famous man and in such short time become well by his treatment. If you live elsewhere than in Portland and wish to procure his medicines, send 4 cents in stamps and a symptom blank and circular will be forwarded to you. This will fill out and proper remedies will then be sent to you.

Open evenings and Sundays.

**The C. Gee Wo Chinese Medicine Co.**  
1624 First St., Cor. Morrison  
PORTLAND, OR.

**GOOD ROADS**

**BAD ROADS WASTEFUL**

**Antiquated Methods in Illinois Cause Big Loss.**

Conference Held at Peoria Approves Program for "Pulling Illinois Out of Mud"—Recommend State Prisoners to Be Used.

Bankers, farmers, automobilists, educators, labor and business men from all over Illinois met at Peoria the other day and approved unanimously a general program for "pulling Illinois out of the mud."

After three rousing meetings they prepared a resolution to the next state legislature setting out the lines on which they think state legislation should be based.

The Illinois highway improvement commission, which called the meeting, declared \$55,000,000 will be wasted in Illinois during the next twenty years unless the present antiquated methods are changed.

To prevent this waste the conference urges the creation of a small state railway commission to replace the present army of local commissioners, more active assistance by the state for the trunk lines, and more active insistence by the public on good roads.

It is proposed that prisoners in the state penitentiaries be used not only for the preparation of road building materials, as at present, but, if possible, for actual construction work through the state.

It is proposed to follow the Colorado method, using the honor system, and sending the gangs out with guards.

The legislation recommended by the conference would provide: State and county co-operation in the construction and maintenance of main highways and bridges. A non-political state highway commission of at least three competent members, who shall devote their entire time to their duties. Improvement in such counties as elect to come under the provisions of the law, of main, continuous inter-county highways connecting county seats and other important cities, principally at the expense of the state and county; such roads to be selected and improved by county authorities, subject to the approval of the state highway commission and after improvement to be turned over to the state for perpetual maintenance. Improvement, maintenance, and control of remaining roads (about 80 per cent of the whole) under supervision of county and township authorities. Effective measures to guarantee maintenance after roads are once constructed. Use of the state automobiles tax, together with such other funds as the legislature may appropriate in the improvement of highways. Use of state prisoners—under state direction—on an honor system, in actual road work when practicable. Payment of all road taxes in cash. Compulsory dragging of all earth roads. Proper construction and guarding of crossings at railroads and intersection of street and highways. The "platform" of the conference includes resolutions in favor of federal aid for postroads and national highways, and calls attention of Illinois congressmen to this position.

Jesse Taylor of Jamestown, O., told the convention of the difference between hauling coal in Belgium and America, 13 cents a mile, meant a waste of \$127,500,000 in this year's farm crop alone.

**Egg Material.**  
The laying mash has become generally recognized as the most convenient as well as economical method of providing a hen with egg material. The following is a good formula: Coarse wheat bran, coarse middlings, ground corn and oats, alfalfa meal, meat scraps, each 100 pounds, linseed meal forty pounds, fine table salt ten pounds. This 550 pounds of feed, costing around \$10, should be enough to last a flock of 100 hens one month and should produce during that time, at December and January prices, from \$50 to \$60 worth of eggs. There is not another animal on the ranch that will show this profit from the same amount of feed given in addition to the regular rations.

**Plant Food.**  
When plants run to vines and tops it is a sure indication that the soil is full of nitrogen and lacking in potash and phosphoric acid. This frequently comes from the use of large quantities of stable manure. A fertilizer low in nitrogen and rich in potash and phosphoric acid will balance up the plant food ration.

**Difficulty With Guinea.**  
One difficulty about raising guinea is that the young birds are very easily killed by mites and lice.

**Grit.**  
Grit and shells are comparatively cheap, but the cheapest of all ways is to haul a load of sand and gravel and dump it in the poultry yard. Sand and gravel from some streams contain a large percentage of broken shells, which the hens will soon devour with a relish. It will be surprising to see how soon an average-sized flock will make away with a box of grit.

**Cull Out Poor Layers.**  
Cull out all the poor layers and give good hens a chance.

**Had Kept Her Bargain.**  
An ingenious trick was recently played on some women of Maukkan, Madras, India. They handed some of money to a woman who said that she possessed the power of doubling the contents. The victims had their packets returned to them after seven days, when the silver coins they had contained were found to have been changed into copper ones.

**It Cures While You Walk.**  
Allen's Foot-Pain is a certain cure for hot, swollen, callous, and swollen, aching feet. Sold by all druggists. Price 50c. Don't accept any substitute. Trial package FREE. Address Allen & Gilmartin, Le Roy, N. Y.

**Accomplishing.**  
It is very important that the young man select his life work early and bend every energy toward accomplishing something. One of the most common causes of failure in this life lies in the fact that men do not see the importance of being thorough until it is too late.—Florence Vidette.

**English Stump Speech.**  
A correspondent, "Old Briney," sends us the following specimen of frenzied stump oratory: "Feller blokes! Thanks ter th' gov'ment, yer got yer d'minlehin' wage, and yer lit'le loaf, an' all that. Watcher got ter do now is ter fer dev'loption and local nat'ion, an' go it blind!" (Loud cheers).—London Globe.

**Be thrifty on little things like bluing. Don't accept water for bluing. Ask for Red Cross Ball Blue, the extra good value blue.**

**By Installments.**  
The "epoch-making advice" of a bookmaker to a colleague in distress is related in Vanity Fair. The colleague had been paid £25 on a bet by a certain captain, who, in a fit of absent-mindedness, paid him the same amount again next day. "What shall I do about it?" asked the bookmaker of his friend; and prompt came the answer: "Ah! him for it again."

**Steel Stays stopped Bullet.**  
Steel stays have saved many a woman's life. Not long ago Mary Henesy was taken to Bellevue hospital with a flesh wound in the side, and Dr. Drury discovered that had it not been for a steel stay which deflected the bullet, the wound would have been fatal, for the slug had been traveling toward a vital organ.

**Clogged Sewing Machine.**  
When a sewing machine will not work, stand it near the fire so that the oil may melt, and then clean with pure paraffin, putting it into every oil hole. Work the machine well, and then wipe every part with a clean cloth. When perfectly clean, lubricate with machine oil.

**As a Man Thinks.**  
Jennie—"He must have a soft spot in his heart for me." Wennie—"Why so?" Jennie—"He says he is always thinking of me." Wennie—"But you know, a man doesn't think with his heart. The soft place must be in his head."—London Telegraph.

**Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.**

**Happiest Home.**  
But the happiest home is built when the twins together meet the trials and catastrophes that come from the outside world with the good health, the common sense, the humor, the patience and courage that will rout them. It should not be necessary for these qualities to be used by the one to combat the faults of the other.—Barbara Boyd.

**Learning by Love Letter.**  
"Love letters between young men and women are an excellent method of teaching literature," says Dr. Arthur Holmes. But it must be done tactfully. We have known a young lady who broke off an engagement because her fiance returned her love letters with the spelling errors neatly corrected in red ink.

**TO CURE A COLD IN ONE DAY**  
Take LAXATIVE BROMO Quinine Tablets. Druggists refund money if it fails to cure. E. W. GROVE'S signature is on each box, 25c.

**WASTING OF ROAD MATERIAL**  
Estimated That \$9 Out of Every \$10 Uselessly Squandered Annually in States of Corn Belt.

It would be difficult to give in actual figures the amount of money that is annually wasted in road work in the states of the corn belt. To say \$9 out of every \$10 is uselessly squandered would be putting it too strongly for some communities, but it would not be wide of the mark in others, says the Iowa Homestead. Strange as it may seem, those very localities having the worst roads are staunchest in their support of the old-fashioned system whereby the highways are in charge of those who know absolutely nothing about the scientific construction of roads.

We are not assuming to give advice on how to build roads, because road making is not our profession, but it is sometimes in order to point out how not to build them. While traveling recently on a highway that has almost a nation-wide reputation for its excellent condition due to dragging, we found at one place twenty or thirty teams applying gravel. Already several miles had been gravelled, application being made to a surface that was in many places at least thirty feet wide without the slightest attempt having been made to make a grade. For a distance of many rods in places the center of the highway was considerably lower than at either side and yet these faithful "gravelers" were dumping their loads in the very middle of what might be called the "saucer" grade. No attempt whatever was made to pack down the loose gravel, so that all traffic was being diverted to the sides. Heavy traffic following wet spells had resulted in cutting the entire surface into well-nigh impassable ruts, the situation therefore presenting the pleasing prospect of having the ground freeze up this fall with the surface in frightful condition.

It requires no expert knowledge of road making to conclude at once that labor expended in this way is practically wasted. Instead of first getting rid of the water, which has always been the fundamental principle of road making, and then applying the gravel, those in charge of this road simply because the cash was available for putting so much labor on the surface began at the wrong end and it may safely be predicted that not two years will elapse before this gravel has disappeared into a bottomless bog. Here was an expenditure of \$500 a mile that was in our opinion worse than wasted because this loose unpacked gravel by its diversion of traffic to the sides simply means that where formerly some good could be accomplished with a drag, now this benefit cannot be expected because dragging the soil to the center will only the more quickly bury the surface material—the gravel.

While we have given but one instance we believe that similar cases could be found in a great many counties of the corn belt where gravel is available and if this is true it is high time that some system is developed whereby every dollar that is spent on a highway must be for labor that is superintended by someone who is schooled in a practical way on the scientific principles of road making.

**Horticulture**

**GRAPES FOR USE IN WINTER**  
Placed in Department of House Cellar Without Any Artificial Heat Some Keep Well.

What a pity it is that grapes will not keep longer. Every autumn I place in a department of my house cellar, where there is no artificial heat, baskets of various varieties of grapes, says a writer in Green's Fruit Grower. I do not expect the Worden, Concord, Delaware and Niagara to keep long, therefore I consume them first. After these I consume the Brighton, which is a fairly good keeper, but which shrivels up considerably. Harry has kept well with this season. Gaertner, a red grape, has kept perfectly up to Thanksgiving.

Mills, a black grape with very large compact clusters, is the best keeper of all that I have tested, being in perfect condition on Thanksgiving day. I hear of many methods of keeping

**A Good Keeping Variety.**

grapes through the winter, but I have never succeeded in doing so in my ordinary fruit room. The grapes must not be placed in piles in baskets or boxes. With me they do the best in single layers. If one layer is piled on top of another they are inclined to rot. Some people cut off portions of the vine with clusters on it and place the ends of the vine in a bottle of water and report good results in keeping the grapes plump and fresh. Others insert one end of each stem of grapes in a bottle of water, but when the water evaporates it must have attention, therefore this is rather an expensive method. The Catawba has the reputation of being the best keeper of the hardy northern grapes. The Catawba and even the Delaware are kept, as I assume in cold storage, and put on the market in western New York all through the winter, but I observe there is difficulty in keeping even the Catawba in prime condition for the holidays.

**INSULATOR FOR THE TREES**  
Wood Used Should Be Thoroughly Waterproofed to Prevent Branches From Forming.

Part of the telephone lineman's work consists in keeping the wires clear of trees and their branches, which often afford a good ground. The Morse tree insulator here shown is simple and quickly placed on the wire.

**BETTER ROADS ARE COMING**  
Recent Convention Held at Peoria Gave Powerful Impetus to the Movement in Illinois.

The recent good roads convention at Peoria gave a powerful impetus to the good roads movement in Illinois. Prospects are that some sort of road legislation will be passed by the legislature this coming winter.

Opposition to the hard road movement will come mainly from two sources. The first is that class of people who do not trust the state to spend money wisely and economically. They believe that the township or county can use the road money more effectively. The second and largest source of opposition is from the northern part of the state, where the main roads are now pretty thoroughly gravelled or macadamized. The people there say with some justice that after having taxed themselves to build their own roads, they should not be compelled to help build roads for the rest of the state.

This should not block the progress of the good roads movement, however. It should be easily possible to devise a law to provide for an equitable distribution of the state road money. In the sections which already have macadamized roads, the money could be spent for concrete pavement on the roads where traffic is heaviest.

As for the first objection, the state, with a force of trained road makers, ought to be able to put in permanent roads much better and at less cost than the township or county. Experience does not show that misuse of funds is any more likely to occur under state than under county administration.

It is important that the good roads question be thoroughly threshed out this fall and winter. We should like to hear from our readers on this subject, and will be glad to give space in the paper to as many letters as possible.—Prairie Farmer.

**Kicking Habit of Mule.**  
If a mule is properly trained he will not develop the kicking habit any more than a horse will. Mules have a bad name on this score simply because they are not as well broken as horses are.

**Disposition of Cripples.**  
The cripple and the malformed chicken should be put to death immediately after hatching. Such little unfortunates will bring nothing but disappointment. They will give you more care than ten well and whole ones. They will make you sick of the chicken business and give your on-looker a black eye from the first kill 'em the instant they are born.

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**"Father, I'm Glad You Smoke Duke's Mixture"**

Before we tell you about the boy and his air rifle, we want you to hear about Liggett & Myers Duke's Mixture—the tobacco that thousands of men find "just right" for a pipe—the tobacco that makes "rolling" popular.

**Liggett & Myers**

**Duke's Mixture**

This favorite tobacco is fine old Virginia and North Carolina bright leaf that has been thoroughly aged, stemmed—and then granulated. It has the true tobacco taste, for the very simple reason that it is *Duke's* tobacco. Pay what you will—it is impossible to get a purer or more likeable smoke than Duke's Mixture. It is now a Liggett & Myers leader, and is unsurpassed in quality.

In every 5c sack there is one and a half ounces of splendid tobacco—and with each sack you get a box of cigarette papers FREE.

**How the Boy Got His Air Rifle**

In every sack of the Liggett & Myers Duke's Mixture we now pack a Free Present Coupon. These Coupons are good for all kinds of useful articles—something to please every member of the family. There are skates, sleds, balls and bats, cameras, umbrellas, watches, fountain pens, pipes, opera glasses, etc., etc.

As a special offer, during January and February only, we will send you our new illustrated catalogue of presents, FREE. Just send us your name and address on a postal.

Coupons from Duke's Mixture may be secured with tags from HORSE SHOE, J. T. TINSLEY'S NATURAL LEAF, CHAMBERLAIN'S COLIC, FOUR ROSES (10c-20c double coupon), PICK PLUG CUT, FIEDMONT CIGARETTES, CLIX CIGARETTES, and other tags or coupons issued by us.

Premium Dept.  
Liggett & Myers Tobacco Co.  
St. Louis, Mo.

**TURN OVER A NEW LEAF**

Start the new year right. Take care of the Stomach, Liver and Bowels, and they will serve you well. Make the appetite keen, digestion perfect and Liver active by the daily use of

**HOSTETTER'S STOMACH BITTERS**

It promotes and maintains health, strength and vigor. Try it today.

**Air Flight for Consumption.**  
If you have incipient consumption—take a flight in an airship. Doctor Flemming, an eminent authority on tuberculosis, lecturing before the Berlin Aeronautical association, described the benefits of high altitudes upon those afflicted, and asserted that fifteen minutes' exposure to the sun's rays during an airship flight at high altitude was certain death to the bacilli of tuberculosis.

**We Are a Nation of Frog-Eaters.**  
Frogs' legs, at which people turned up their noses in disgust only a few years ago, have now become so popular an article of diet that no fewer than 5,000,000 frogs a year are killed in Minnesota alone to supply the demand. The northwestern frogs are the most delicate, but the biggest are the southern bullfrogs. The latter are not so sweet or tender as the former.

**FILES CURED IN 6 TO 14 DAYS**  
Your druggist will refund money if PAZO OINTMENT fails to cure any case of Itching, Blisters, Boiling or Proliferating Piles in 6 to 14 days. 50c.

**Too Good to Lose.**  
Jack—"Now that your engagement is broken, are you going to make Blanche send back your letters?" Harry—"You bet I am. I worked hard thinking out those letters; they're worth using again."

**New Idea in Fruit Growing.**  
An electric motor to vibrate gently a fruit tree so that the sap flows to the buds and blossoms and enables them to resist frost has been patented by a Colorado orchardist.

**Great Fly to Be Used Again.**  
To stop following harmful venereal or other diseases, consult your doctor about the use of a certain ointment. It has been invented by a Greek doctor and is called "Greeks' Ointment."

**Willing to Please.**  
"During an anti-fly campaign," writes E. K. O. to the Cleveland Plain Dealer, "one of the teachers in our public schools urged the children to bring in all the flies they could capture. The reward was to be ten cents a pint. On the following day the schoolmarm was astonished to get this question from one of her small charges: "Teacher, we ain't got no flies at our house. Will bedbugs do just as well?"

**Many Deadly Weapons.**  
Some persons attribute all crime to the pistol, forgetting that history tells us that more crimes were committed in the world before there were pistols. What is to prevent a person murderously inclined from obtaining and using a carving knife, an ice pick, an ax, or hatchet, a razor or baseball bat? These all make deadly weapons.

**Pettit's Eye Salve** QUICK RELIEF EYE TROUBLES  
Desire for Long Life.  
There appears to exist a greater desire to live long than to live well. Measure by man's desires, he cannot live long enough; measure by his good deeds, and he has not lived long enough; measure by his evil deeds, and he has lived too long.

**Fault Finding.**  
If we had no faults, we should not take so much pleasure in noticing the faults of other people.—La Rochefoucauld.

**Destroys Dandruff**

Ayer's Hair Vigor keeps the scalp clean and healthy, destroys all dandruff, and greatly promotes the growth of the hair. You will certainly be pleased with it as a dressing for your hair. It keeps the hair soft and smooth and promptly checks any falling of the hair. It does not color the hair, and cannot injure the hair or scalp. Consult your doctor about these hair remedies.

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