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THIS PAPER MAY BE FOUND ON LEAST GEO. P. Newspaper Advertising Bureau (10 SPRUCE

"my insignificant cherry trees," etc., when it should be my "magnificent," etc. Such errors are unavoidable sometimes and at the same time annoying

\$15,000; Polk county refused to do any- remembers Laurel Hill, a bold ridge, compelled to rely for his own welfare, thing, but a number of citizens met and that fronts the Sandy and makes the and even his existence, not to mention pledged \$5,000, making a total of \$50,-000. It will be a convenience indeed.

THE GAME LAW expires with this issue, and we presume that those sportsmen who love to slaughter will begin their work. It is a pity that tresspassing is so common throughout the State and half grown at this time.

OUR PRIEND, the Salem Statesman, words written will be retracted, as it will but that Polk county will aid the enterprise. It is just as well to let that angust body take their time, and when they make their final report will be time enough to growl.

HARVESTING has begun in carnest large a surplus as ever come forward had near by it. from the Willamette valley. Wool has brought a good price, hay is scarce and brings a good price, hops are up in the throughout the United States generally.

HOPS

duct would be worthless if appearances did not change. Since then this news

the greatest disturbance ever known ple should spare no effort to make the and the hop men grew rich in a single contributions should come forward by year. Some men then held for a dollar August 1st. and a quarter and held until hops fell to 15 cents. We then wrote something concerning hop growing that was generally copied, showing the variations of hay and towards spring found it was selves to its execution. The first step the market and the inequality of the cut up and greatly injured by mice; the to be taken is very simple. Let every trade. It was shown that taking a range little vermin infested it in multitudes, farmer who realized the importance of fifty years and the average price of They cut it up and tainted it so that of benificence of birds teach his own hops had been over 30 cents per pound, horses would not cat it. This is the children and hirelings that except the This was a good price and paid well all case so generally that no more need be hawk, they are to be spared, protected who stuck by it. The man who went in said: the question is to find a remedy, kindly treated, and when necessary fed. according to his means and never Mr. A. S. Kightlinger, of South Salem, They are to be valued and cherished as flinched if hops were down, or lost his has for three years made a successful the voluntary police of our fields and head if they were down, always came trial of peppermint, which grows very gardens; constantly employed in fightout ahead, but there are too many who freely on low land especially on the ing our battles against our ruthless foes. Late in the fall the largest turnips are plant under excitement and sell under islands of the Willamette. He picks He who traverses the farm shooting discouragement. These must lose and this peppermint plant and strews it on and mangling its feathered sentinels, are disgusted with the trade.

speculation. The producer becomes a Though simple and easy it is not genersatisfied with a safe thing.

It is hard'y possible for hops to reach give our own experience.

an extraordinary figure under ordinary circumstances. If hops are going to bear a good price the grower can hold The Relations of the Farmer Thereto -- How on and realize all there is in it. Every man who sells weakens the market. If the hop grower wants to get his full share he must study the field, learn all the points there are, and then act on his judgment. No man can sell on present information with any reliable certainty.

We notice hop yards that are badly neglected and will not nearly give an average yield, and here we are on the 'stay with it" never should go into it. dividual loses what he has waited and planted for. In many things this same large. Against the large animals he can In an arriche published last week in rule applies. Unless you have faith use united strength, or make up by art the FARMER by our friend Mr. A. F. enough to keep your endeavor don't try for deficiency of power. But with those Davidson, of Croston, we make him say to raise hops or anything else of an uncertain nature.

LAUREL HILL ABOLISHED

The Cascade wagon road company that now owns the old Barlow route across THAT BRIDGE at Salem, to connect the Cascade mountains, via Mt. Hood, Marion and Polk counties, is undoubt- has made an improvement that abolishes edly going to be built, as Salem has the worst hill and obstacle on the whole voted \$30,000; Marion county donates route. Every one who has crossed there est and lowest of his subjects, and is route followed the Indian trails. One highest land was to be able to see in all directions, another was because there was very little timber on the highest that the law is so disregarded when it ridges so the way was but very little ob- insect-eating birds and predaceous comes to our wild game. Let the birds structed. They made signal fires on insects to some extent, for were these alone for awhile yet, as they are not high points and always kept on high not continually and actively employed against them or friends might make to seems offended at the Polk county board them. The emigrants took it for granted of commissioners for not aiding our that the Indians had the best route and bridge project. We hope the hasty never looked for better. The company concluded to investigate and found a do no good to bulldoze a measure good route, without any steep road on an uninhabitable desert. Locally man through. We entertain but little doubt it, along the edge of the ravine at the side of the great hill. They had to chop away considerable down timber, which throughout the Willamette valley. The day. It seems incredible that thousound of the reaper and the hum of the sands of people have every season travthresher is now an every day occur-eled over the Cascade mountains and rence. As a rule the growth of all pro- have climbed or descended this terrible ducts has been good, and notwithstand- hill for more than forty years and all adverse comment, but which in my ing a slight lack of rain we shall see as the time an easy grade could have been

THE OREGON EXHIBIT CAR

world again and bid fair to go higher, so displayed within and without, visited would-be smartles find it easier to ridiwe have hopes that other products may the East and attended various fairs held cule and condemn than to comprehend pay a higher price. We see no reason in Iowa and elsewhere, with remarkable have indulged themselves accordingly. why better prices should not prevail results. Everywhere the newspapers noticed it very enthusiastically and it is seen in immigration that many persons ally darken our fields in May and less skin which is known as "hide-bound" came here because of it. We met a man notably throughout the summer, we are symptoms of feverishness and other Some weeks ago there was a rumor Wednesday in Portland, who credits may reasonably hope to grow fair crops disorder due to indigestion, or to some that all the hop-yards in New York State that display with his coming, and best of our favorite fruits from year to year sudden shock to the nervous system of were badly damaged by lice and the pro- of all he is pleased with what he finds and realize that we owe them to the con- the skin, as by a chill when perspiration here now that he has arrived.

The State Board of Immigration sends seems to be confirmed and the effect is out circulars announcing the intention birds." And again after giving some the capillaries of the skin in which the seen in a very decided advance in hops to repeat this enterprise and request all account of insect ravages in different blood circulates, and these become clog-The greatest production of hops is in who can to contribute products to be New York State and whenever hops tail shown. They want grains, grasses, nearly my own that I quote at some supply of blood to the skin. The remthere the market responds as at this fruits, vegetables, woods and minerals, length . But whatever might have edy is to give a liberal dose of laxative time. We hear of 12 cents being offered D. D. Prettyman is general collector but been the Philistines are upon us. We medicine to relieve the system. A pint in one locality and 18 in another, and all are asked to take an interest. Ar are doomed for at least a generation to of raw linseed oil usually has this effect again that holders are asking 25 cents tieles delivered at any railroad station wage war against insects multiplied be- if not it may be repeated in two days. cents per pound. There is no other will be forwarded, if addressed to "The yond reason, by the neglect and short- Bran mash and fresh grass are also useitem of commerce of equal importance State Board of Immigration, Portland." that rules in such an arbitrary manner. Having such palpable proof of the good Some time ago (three years) there was accomplished by the other car our peosecond even superior to it in value. All

TO SAVE OAT HAY FROM RATS AND MICE.

the barn floor under the hay mow, a diminishes its future product of grain It is not easy to estimate the yield of slight sprinkling. He sprinkles more and nearly destroys that of fruit. The Oregon, or of the United States, or of when half a load is mowed away, and so farmer might as well consent that any the world, but some shrewd men are on. This has proved successful and has strolling ruffian should shoot his horses handling hops now that seldom lose by always saved his hay from rats or mice. or cattle as his birds. Begin at home speculator too often, and a losing one. He wants to make a big haul and is not it on two and a half acres of oat hay we it on two and a half acres of oat hay we are putting up and next year we can live but we must cherrish and protect kindling wood. The damage to crops is

INSECTS AND THEIR ENEMIES.

they Originate and How to Depose Them. BY F. S. MATTESON.

Nature, lavish of life in the lower or ders of creation appears more intent on multiplying than in perfecting the kind. And it will be observed that creatures living on vegetable food are more prolific than the carniverous, and also that their fecundity is in a corresponding eve of a rise in hops! A man who ratio to their size, the smaller the being hasen't faith enough in the business to the more numerous his progeny. And we find also that mankind receives This is always the case and the country more injury from the contemptibly oses a good crop while the in- mean and small than from the more apparently formidable invasions of the now under consideration it is otherwise. No force can be brought to bear against from Japan. their non-resistance; no arts can appreciably diminish their amazing propagation. The destruction of millions may and what is their style of thought. be replaced in a few weeks time, nature

supplying their want of fecundity. And here proud man, the lord of creation, is brought to bay by the smallworst sort of an ending of the mountain his supremacy upon such of his subjects journey. The old Siwash trails always as voluntarily come to his assistance. followed the ridges and the Barlow and in serving their own purposes, release mankind from his awkward, if not reason why the Indians kept on the perilous position. This is no fancifully drawn picture. It is the practical and irreputable fact. Mankind are dependent every day of their existence on the land to read signals enemies might make in reducing the numbers of the vegetable cating insects, these, from their prodigious fecundity would in a veryfew years overrun the whole earth and devour every green thing. Remove the birds and in six years Oregon would be may by untiring and expensive labor reduce their numbers and ravages to a minimum for a season or two, but the the Indians could not easily do, so went breach is soon repaired. To the birds on the ridge. When this new track then we are to look for our salvation in shall be tinished Mr. McCown of the our present dilemma, unless we are conwagon road company says a good team tent to pay a price vastly greater than can go from Portland to Mt. Hood in a the cost of their encouragement and maintenance. And here I want to quote a little from Horace Greely's book What I Know of Farming." A book which has been the subject of much humble opinion contains more good sound common sense and practical information on the subject of which it treats than any other book of its size Last year a car with Oregon products ever bound in muslin. Cheap wits and Regarding birds, Mr. Greeley says

Whenever clouds of birds shall habituwithout remorse the birds and let eat- A thorough sweating by means of vioerpillars, worms, grasshoppers, etc., to lent exercise while blanketed and vigormultiply and ravage unresisted. We ous brushing and rubbing are beneficial. must pay for past errors by present loss and years of extra effort. And precisely because the task is so ardnous, we Last year we filled our barn with out ought to lose no time in addressing ourto make this truth felt and it will be

We must not merely agree to let them

does not go far enough. In all our schools a natural history branch should be taught, as a companion to geography. (and it is really the most important of the two) and teachers should be required to be qualified to teach the rudiments of this useful science, as well as others. Every pupil of proper age should be supplied with natural history text books and every school house should contain a collection more or less complete of natural history specimens, and lectures and illustrations should be a part of the regular school exercises. And the college, the Sunday school and the pulpit should continue the work thus begun. Then we can summon the law to our aid with some prospect of success. Only a few years since the painted robin (turdus nevius) which is a regular winter visitor here, was pointed out to me by otherwise educated people as a foreign bird lately imported

Tell me what a person reads and l can tell the scope of that persons mind

As to legislation Mr. Greeley recommends "to make it trespass, punishable with fine and imprisonment, to shoot on anothers land without his express permission and the cowardly massacre of the farmers humble allies would be checked at once. And when public sentiment had been properly enlightened, might in civilized countries, be arrested altogether." This is all very well as far as it goes, and some additional legislation of this subject is certainly needed. But how can a legislator legislate wisely on a matter without previous information? He might as well undertake to legislate on navigation without knowing a sandbar from a saloon bar.

Mr. J. A. Allen, before the Muttali Ornithological club of Cambridge, Mass., in the English sparrow discussion, says on this subject: "What we need is an enlightened public opinion that shall enforce by statutory enactments the protection of our fruit and shade trees by already well-known available means, making it a penal offense for any one to neglect the protection of any trees on his premises, subject to the attacks of the canker worm, etc.

And Prof. O. B. Johnson, in his prize essay read at the Oregon State Fair in 1880, puts it thus: "But in the absence of adequate laws we can only use our personal influence toward their protection, hoping that in the near future when intelligence shall have ceased to be a crime, we shall have a Legislature with ideas above dollars and cents, and an independence of an ignorant constituency enough to pass wholesome laws to protect the feathered friend from the indiscriminate slaughter that is now so successfully prosecuted by selfish

To be continued

The tightness and harshness of the stant and zealous, though not quite dis- is free and copious. This excretion interested, efforts of our friends, the from the skin is then thrown back into sections he concludes with views so ged, leading to a suspension of the comings of our predecessors. For gen- ful, with some tonics, as dram doses of erations it has been customary to kill sulphate of iron and ginger powdered.

The flat strap leaf turnip may be sown early in August or late in July. Timothy seed and clover also may be safely sown with the turnips in the following manner: The ground is well plowed and thoroughly harrowed and made fine and mellow; the seed is then sowed evenly, and after it is sown one pound of the turnip seed per acre is sown, and the whole are covered by means of a light brush harrow. There is little danger from dry weather when grass seed is sown in this manner, as it is well protected by the covering of soil. pulled, yielding generally 400 or 500 bushels per acre, and the stirring of the soil by the pulling helps the grass and clover. The small turnips are left and this institution. Thus wood, serve as a protection during the winter.

A strip of country twenty miles long by two miles wide around Inkster, Dak., was pounded bare of crops by a terrible hail storm yesterday. The Norweigian them." Not only this, but Mr. Gree'ey | estimated at \$500,000.

Heppner Gazette is Not a Clam

Neither is it a mountain oyster; but it is a wordly paper scribbled up in plain U. S. language and printed on a sweatpower press in a part of Eastern Oregon where cords and cords of vacant government and railroad land still lies out doors. It never stole hogs, but it is somtimes borrowed by the neighbors. Sample copy with description of the Heppner hills country, 10 cents in stamps. No discount to bummers. It never sucks eggs. Address, J. W. Redington, Heppner, Oregon.

Farmer's Attention! It is a well known fact that the man that buys the cheapest can afford to sell the cheapest. That's what's the matter with Port & Son, Druggists, No. 100 State street.

J. A. L. Wilson, treasurer of the Chesapeake & Delaware Canal company of Philadelphia, is a defaulter for \$615,-260, having issued fraudulent bonds to that amount some thirty years ago. He s missing.



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