VOL. XIV.

PORTLAND, OREGON, FRIDAY, JANUARY 5, 1883.

NO. 47

THE PACIFIC NORTHWEST.

The Wonderful Material Wealth of Oregon and Washington-Conformation of the Coun-try-The Fertile Willamette Valley-The Forest Growth of Washington Territory, Etc., Etc.

Correspondent Springfield Republican.

WALLA WALLA, W. T., Nov. 5, 1882. The two great natural sources of wealth upon which the civilization and prosperous development of the Pacific Nor hwest are to be based are its rich agricultural lands and its vast forests, full of valuable timber. The open country that lies between the mountain ranges, and naturally first attracts settlers, varies widely in degree of fertility. The best of it is believed to equal in productiveness any agricultural land on the continent, and the great body of it is susceptible of profitable cultivation. It is peculiarly adapted, from the nature of its constituents, to wheat growing, and that is now and will be for years to come, if not always, the leading industry of the country. The forests cover the mountains and in parts of the country, particularly in Western and Central Washington, sweep down on to and over the lower lands in dense masses. The Cascade mount iss, a prolongation of the Sierra Nevada chain of California, extend north through Oregon and Washington at an average distance of 110 miles from the ocean, cutting the country Into two grand divisions, which are, in most respects, totally unlike. The Columbia river, flowing south by a winding course into Eastern Washington from its first sources into British Columbia, turns sharply to the west, 200 miles below the boundary line, and rolls on its way in majestic power toward the Pacific, cleaving the Cascade range in twain and forming the boundary between Washington and Oregon. There are thus two great na:ural divisional lines through the country,

orossing each other at right angles. On the western side of the Cascade mountains, the valley of the Willametta river, in Oregon, is the most inviting agricultural section, and was the first part of the country to be populated. It is sometimes called the Eden of Oregon, so generously does it yield increase to the husbandman and so beautiful are its natural resources. It is about 125 from he mountains to the P-cific and Paget miles in 1 ngth, Portland lying at its northern end and Eugene City at its southern, and has growth of fir. pice, cedar, soruce, larch an average width of 40 miles. The Coast and hemlack, with some alderand cott inwood range of mountains separates it from the sea, but its chmate is influenced by the soft, damp west winds that blow from the ocean and the warm currents of the Pacific that sweep up against this northwest coast. The winter is a prolonged rainy season, during which the 38 degrees. The summer is comparatively dry, but cool. The nights, even in midsummer, would be called cold in Massachusetts, and the average summer temperature does not exceed 67 degrees. The valley is well watered by a great number of tributary steams, which flow into the Willamette from the Cascade mountains on the east and the Coast range on the west. The character of the country is remarkable. Much of the land, especially on the lower levels, is prairie, but the prairies are intersected or separated one from another, by wide timber belts and the foothills of both mountain ranges are generally wooded. The prairies make the most beautiful and fe tile farms imaginable and the timber lands wherever stripped of their trees and planted are found almost equally productive. The soil is a dark, deep loam containing a large amount of vegetable mold and resting on a clay subsoil. In the bottom lands near the streams there are rich deposits of alluvium. All the cereals are raised in the valley with the exception of Indian corn, for which the summmer nights are too cold. Wheat develops to perfection, and the berry of the Willamette valley wheat is widely famous for its full, plump form, and produces flour of exceeding whiteness which is highly rated in the Liverpool market. The seed is commonly planted in the fall and the yield per acre ranges from 20 to 30 bushels, with an occasional harvest running up to 40. There are farms in the valley where wheat has been raised on the same land for 40 years continuously without the least bit of fertilization, broad by 500 long, embracing the valleys of they are already coming to it in great numwhich are still producing 20 bushels to the the parent river and its tribu aries, which is bers, notwithstanding the expensive and hard acre. Hop-growing is an important inter st yet only beginning to be opened to civilization. journey involved in getting here, and they and has been very profitable this season. It was penetrated first by the gold hunt ra, Most of the fruits and vegetables are raised but did not prove rich enough in the precious with marked success, though the more deli- metal to satisfy their impatient expectroad is fast pushing its way through the rich cate varieties do better east of the mountains.

tations, and few of them are left to mark

districts, new towns are springing up along in this country, if farmers could be assured

Apples, prunes, plums and cherries attain a the places where the digging and washing for its lines, and there is a universal sprint and

D. J. Woon. rare degree of perfection, but grapes and the clittering prize were once so actively conpeaches are raised only with careful attention, ducted. East of this reg on in the Idaho

tied for over 40 years, and, so far as population so far as population was concerned, has constituted about all the control of the first-class lands, i.i., of course, sell the less to desirable and permanent. Following the minimum was concerned, has constituted about all the control of the first-class lands, i.i., of course, sell the less to desirable and permanent. Following the minimum was concerned, has constituted about all the control of the first-class lands, i.i., of course, sell the less to desirable at lower prices, \$3, \$4 or \$5 an acre.

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arms are held at from \$20 up to \$100 per acre. There are still, however, considerable tracts of timber land, the property of the Oregon and California Railroad Company, which are offered at low rates, and will make excellent farms when cleared. The consumption of wood in the country is now so large that it would seem as if the trees must of themselves more than pay the cost of clearing. The business of farming is so comparatively easy in the valley that the farmers drift into careless and asteful methods and lose a large p oportion of the revenue that they might otherwise save. Indeed, they exhibit a surprising lack of that valuable New England virtue, thrift. Scattered along the river between Portland and Eugene are frequent prosperous towns and cillages, of which the most important are Oregon City and Salem. The latter is the capital of the State and is a place of 4,000 or 5,000 population, slow and st ady, but rich as an agricultural center should be and well furnished with good public buildings, including a handsome State House. Oregon City is lolated by a fall in the Willamette river, enjoys an excellent natural water power, and is the chief manufacturing center of the State, besides being the class town in the country Its interests are mainly flour and woolen

South of the Willamette valley and west of the mountains are two other principal valleys, the Um; qua and the Rogue, whose rivers, fed by numberless triabutaries, flow westward through the coast mountains into the Pacific. Although not so remarkably fertile as the Willamette valley, they contain much excellent agricultural land, and are yet but sparsely settled. It is thought by those familiar with the country that these southern valleys are to become largely devoted to the culture of the grape, to which their climate is better adapted than that of the northern counties of the

West of the mountains in Washington Territory, and stretching from them to the ocean is the heaviest belt of timber to be found anywhere in the United States, and the finest body of coniferous trees in the world. Thwhole surface of the country, with the exception of two or three valleys of limited area, Sound, is densely covered with a strong, viginverspersed. This belt is 200 miles long, from the Columbia river to British Columbia, and 100 miles wide, except in its northern part, where Puget S und enters into it, reducing the width to 30 or 40 miles. The forests also extend over the Cascade mountains and somewhat down their eastern slope, as south along the range into Oregon, but in much diminished density. In Oregon there is considerable good ash and maple. A large proportion of the belt in western Washington will yield over 50,000 feet of lumber to the acre, and more of it will produce 25,900. The fir-trees which constitute about seven-eighths of the whole growth, attain a remarkable height, and are marvelously straight and symmetrical of form. It is not at all uncommon to find then fully 250 feet high, and indeed all the various trees that grow in this section appear in the perfection of form and size. They generally stand amid a thick undergrowth of brush, ferns and mosses of wondertul beauty and variety, so that a ride through the forest by rail, is full of charming interest. The value of a vast tract of timber such as haustible. There are now some 15 or 20 saw mills scattered ar and the shores of Poget Sound, the product of which is shipped to Cal-South America, and even to England, France, China and Japan. Wherever the timber lands are cleared crops can be raised successfully, and there is already a large export of horfrom the country adjacent to the southern part of the sound, some of the growers having netted as high as \$100 per acre this year, of course an exceptional season.

East of the Cascade mountains is the great basin of the Columbia river, a region 150 miles As the Willamette valley has now been set- mountains the mining inter- at has been more tled for over 40 years, and, so far as popula- profit a le and permanent. Following the min-

important. The country in its natural state good farming land scattered over the country affords abundant pasturage of such excellent still wholly unpopulated, or utilized only for quality that the Oregon cattle and horses are grazing, that the Villard railroads will gradunoted for their large size and superior ally open to cultivation and settlement. But strength. But only within recent years has it there are also immense tracts of land of poorer been discovered that the Columbia basin contains thousands upon thousands of acres of thin but nutritious grasses or sage brush, that the best agricultural lands, and is sub will long remain unoccupied, except for the stantially all arable if the soil is properly cattle ranges, simply because there is much reated.

The general character of the country does not t once impress the traveler as offering special attractions to the farmer. It is very unlike the a heavy and profitable one, as appears from Red River valley of Dakota, for instance, and far less propitious to the eye either of the burist or the prospecting settler. There are broad expanses of the desolate sagebrush others in their order are wheat and flour, salland running through it, particularly along the beds of the larger rivers, land that can only be tilled successfully with irrigation. On the eastern side of the range are the Cour d'Al ne and Blue mountains, the latter an extended range whose numerous spurs proproject themselves in various directions through Eastern Oregon and into Washington Territory. But for the most part the basin is au open country traversed by numberless these Holland frows. st cams, from which the land rises into rolling plains, sprinkled over sometimes with thin growth of tine. It is a singular fact that the best lands for farms are found on the higher levels away from the great rivers. The most fertile region that has yet been opened by the railroads lies in the southeastern coruer of Washington, but spreading east into Idaho and south into Oregon. It embraces what is known as the Walla Walla country and the Palouse district, named from the river that waters it, and it now produces large crops of wheat for export. Further north, on the opposite side of the Northern Pacific Railroad line, is another body of very promising agricultural land called the Spokan country, and there are other at present less known but perhaps equally fertile districts, scattered about through the great basin.

The soil of the best lands in this Upper Country is a dark loam, composed of alluvial deposits and decomposed lava, resting on a clay subsoil, underneath which, at considerable depth, lies a basaltic formation. The bunch grass which grows on it is strong and exceedingly nutritious, and wheat planted after the surface has been once turned to a slight depth and lain favow for a few months, thrives wonderfully. Even heavier crops are harvested here than in the Willamette Valley, and the average production per acre is safely placed at twenty two bushels. This year there has been a partial fail pre of crops owing to the pr.1 aged arouta, nd partly also, no doubt, to a lack of knowledge among the farmers of the ary labor. Through one Administration is safest methods to be followed in planting. worth the whole subscription. Then the cuts and illustrations are the best and finest known and illustrations are the best and finest known. stage in this part of the country, and it seems be sown in the fall or spring. The other cereals, except corn, grow almost or unite as well as wheat, and fruits and vegetables of mammoth size and excellent flavor are raised in great abundance. The orchards develop rapidly and produce astonishing results.

The climate on the eastern side of the nountains is characterized by a long, dry summer and a short, rather sharp winter. The total annual rain-fall does not average over 20 in hes and comes mainly in the spring which opens as early as February. From June to September there is no rain and the this and the immense quantity of lumber that summer weather is warm, the temperature it will yield, are simply incale dable. It is a 80 deg. to 90 deg. But the nights are cool and mile of wealth to the Pacific coast, which if the sort winds from the ocean surcharged wisely husbanded, will be practicably inex- with vapor, which sweep up through the valley of the Columbia, temper the severity of the drouth and protects vegetation from its injurious effects. The same wind, called the ifornia, the Sandwich Islands, Australia and Chinook, mitigates the cold of winter and melts the snows rapidly. It penetrates as far east as the mountains of Montana, and is a welcome friend to the cattle end their owners. The autumn is a delightful season of moderate temperature and generally clearskies. Winter hardly begins before Christmas and is over in two months, the mercury sometimes dropping below zero, but ordinarily not under

> The country is an inviting one to settlers: will flock in still more rapidly when the Northern Panific railroad is open. The railgrowth taking possession of the country. The railroad and improvement companies are seeking to get from \$5 to \$12 per acre for their

grade in the Columbia basin, grown over with superior land to be taken up first. In the more protected valleys of Oregon sheep thrive remarkably, and the wool interest is already the large exports during the past year, amounting to 7,500 000 pounds. Of the five leading exports of the State, wool is the third. The mon, oats and lumber.

OUR BOOK TABLE

Harper's Monthly for January commences with an article about Holland giving a chatty. rollesome sort of tale of a stroll through that land of Dikes and cleanliness. No nation on the earth can boast of women who clean and scrub so faithfully and continuously as do

The Redwood logging camp lies in the forests of our own Pacific slope and is wonder-fully true in picture and details, even to the representation of "our cook," the inevitable Chines boy in blouse and sandals.

"Living Lamps" is a charming bit of natural history put into words that read like a fairy tale. The article treats of all animals that give a phosphorescent light, of whom our own little glow werm is a notable repre-

There are stories, and a Christmas tale, too, while "Shandon Bella" continues on in its own piquant style, peculiar to William Black, who is one of the few great writers who are coming up to take the place of Dickens, Thackery and other story writers.

Harper's Young People is the very best magezine that comes to our table for young people. The four publications of Harper should always go together, and if all are taken at once, the reduction of such club rates make it easy to pay for them.

The Harper's Monthly, Weekly Bazar and Young People give all the variety of reading that is needed in a large family. The Bazar is the most reliable of any fashion sheet, while the styles and designs are such as would come under the means of people in medium circum

Stances.

The Young People always has some good story reading, while the rest of the matter is all calculated to elevate and educate the young all calculated to elevate and educate the young The pictures are most exquisitely done, showing that no pains are spared to make it a first-class journal, as is all that is issued from "Harper".

The Century commences the new year, if possible, with greater attractions than usual. No other magazine can claim a class of con-tributors of greater strength and reputation as made the old name of "Scribner." This magazine won for itself a wonderful circulain art. The library table should not be without the Century, and the St. Nicholas for be sown in the fall or spring. The other the United States than the old Scribner and the new Century.

The Young Scientist is a good-sized magazine, of some forty pages, devoted to a sort of exposition of home arts. The first article exposition of ho shows, by picture, the appearance of blood corpsicles of animals, and explains, in a readat le manner, the formation of blood and its way of circulating. The handling of tools come next; working of metals is talked of. Then there is a girl's department, with its accompanying domestic hints. Alto-

gether it is a very useful, interesting and necessary book, published at 49 Maiden Lane.

Fox VALLEY Or Nov 30th 1882 Editor Willamette Farmer:

There are as much as thirty families in this eighborhood, and about one-third of which take no reading matter whatever they say they are too poor, but they spend more money for tobacco and whiskey than would furnish them all the reading matter necessary. The brutal appetite must be fed while the mental must perish.

Since the game law came lorce, the hunters up here think the law is all bosh; that they cannot enforce it. The man that would report them would place himself in jeopardy. Hunting and shooting deer is still going on.

A. D. GARDNER.

NEWBERG, Or., Dec. 25th, 1882. Editor Willamette Farmer:

Is our common laundry starch made from potatoes? It is my understanding that it is, but some people tell me it is made from corn. If it is made from potatoes, people generally should know it and hold out inducements for some one to put up a starch factory. Potatoes could and would be raised in large quantities

Norg. - Friend Peterson, of East Portland, makes beautiful starch from his potatoes, which is excellent for many purposes.

HOP GROWING VS. PROFIT.

BUTTEVILLE, Or., Dec. 27th, 1882.

Editor Willamette Farmer: Mr. Wells thinks that one pole to the hill would not do on the richest bottom lands. Last fall R. C. Geer tested a piece of his rich est land, one pole to the hill, seven feet apart, and the yield was at the rate of 4,500 pounds per acre.. In planting a hop yard, it is advisable to look to the supply of poles. Already here some are having little trouble to find poles. A trouble that will increase with every year's picking begins after the seeds have turned to a dark color. Some pick in what we call hoppers, being a frame about eight feet long, two feet wide and two feet high. Let the side poles of the frame run over sixteen inches for handles, and tack Cadot A. muslin on, so as to make a kind of basket the whole length. Two or three pickers to a hopper. Measure in boxes and take to the dry house in boxes, or empty in sacks. Make three sacks out of two woel sacks, and they will hold one out of two woel sacks, and they will not one box apiece, which makes it easier handling them. The boxes used here are mostly made in Portland of spruss, planed inside and out, cost one dollar apiece in Portland, are single boxes of the following dimensions: Eighte-by thirty-six inches and thirty inches deep,

by threy six menes and threy menes deep, holding about twelve pounds of dried h ps. Some pick in the boxes. They will settle to hold ab ut one pound more by so doing. The average price for picking here is 40 cents per box. The pucking season will last in a year, that is not too dry about three weeks. A dry fall, like the present one, ripens the hops very fast. Three boxes is an average day's work For a cheap dry house, cut logs, so as to make the house 20 by 24 feet on the inside. Set it in a hillside if you can. Make it 16 feet from ground to caves and 12 feet from ground to an a hillside if you can. Make it is ground to eaves and 12 feet from ground to gaves and 12 feet from ground to gaves and 12 feet from ground to make a store room, on one end out of plack, about 24 feet long. To get the room stored in an encomical manner, carry your hops on an elevated walk that should run the full length of store room. Make a light scoop for the purpose out of ceder, if you have it, that will nold about five bushels. Make a walk to carry green hops up to a door in the end of dry house. Put in joist two feet apart up and for see that Hon. M. P. Deady is to speak on "Trial by Jury," on Jan. 12th, at 6:30 r M. We think he is sure to have the house full.

A good smith would find a splendid location. We understand the posting to be disconting to be disconting to the disconting the disconting to th running direct through the room, or a 45-inc running direct through the r.om, or a 45-inch stove with piperunning around the room, will make the heat. For safety, build flues of brick in the end of building, letting them go up through drying room. Make plenty of ventilation below, and a ventilator on top of dry house to allow steam to escape. I bave dry house to allow steam to escape. I have seen the whole door left open for ventilations below. It is a good idea if it can be ventilated from both ends of the building, as it will better equalize the heat. Heat up to about 170 degrees. Hang the thermemeter near the top of the room as it is hottest near the top. If the room gets too hot, make more ventilation, as (with the required heat) the more air that the seed of the room as it is hottest near the top. If the room gets too hot, make more ventilation, as (with the required heat) the more air that the seed in the success of your paper, for at least two reasons:

1st—On account of the honest efforts of its editor and managers to make it a really good farmer's paper. I should like to see such effort rewarded.

2d.—Because Oregon and the Northwest need, and must have, a good agricultural papers of the sooner the better, and how sooners. the more hot air you can send through the hops the faster you can dry. Of course, the house must be chinked and daubed from Now. Mr. Editor, I am not a farm house must be chinked and daubed from ground to roof. Daub it from the ins de below the drying floor. A house of the same size may be made of plank, one inch thick, and doubled. Use plank no wider than eight A house of that size, with two stoves inches. A house of that size, with two stoves and good wood, will dry about 1,200 pounds a day. Hops are here often put on two feet deep and dried in about 18 hours, only aiming to dry one flooring a day, but always put on the entire day's picking. I use a wooden hay rake to smooth on underside; some one use to scoop a support of the state o and some dry without stirring. Some use about a half pound of sulphur by burning on the stove when the hops get hot. The but

dry enough, after the frost has killed the vines, till the hops come up in the springseen them grubbed, after the hors are four inches high, without any damage to the hills. In picking I cut the vines about five feet from the ground. Some do not cut the vines at all, preferring to cut or break down the poles, for fear of injuring the hills. I think that will be stopped when the pole gets more scarce. I have lost few hills by my plan. Where poles are scarce they may be cut quite large, as large as three and a half or four oches at the bu t end, and may often be got off of a larger tree by taking the pole off of the tree. If a pole is very large it may be some shorter. No hop sets can be obtained around here. They may be had at the Sound. be some shorter. No sope sets can be because around here. They may be had at the Sound around here. They may be had at the Sound to tacted f r a few hundred thousands from the sound was a little "off" in his arrange-ments. He was to get them for \$3.50 per M. but received a letter that he would have to p-y \$6 per M. As he had been contracting right and left for \$5 per M. it would leave him behind. I hear that he had gone to the Sound to see about it. I suppose that the Wells hop ould be obtained of Mr. Wells, or of others, in his vienity. The San France so Balletin says that growers claim they will sell all the sets they quantities ear obtain this year, and even the Indians to say that for them.

Woon.

Portland, potatoes, the sound set of the set of the sound contracting potatoes, the set of answer the questions of all covers, on leave gion.

at \$1.50 per year. The Times is the best hop paper in the United States. Everybody wants a hop yard. In two or three years when hops are selling at six cents in San Francisco, they will wonder what they went into hop raising, for your remarks, Mr Editor, on the subject are to the point; and some, probably, will find to their cost that it is no all profit in that branch of farming as well as some others.

JOEL P. GEER.

Parm Prospects in the Willamette Valley POLK COUNTY, Or., Dec. 22d, 1882.

Editor Willamette Farmer: As this is a time of rest and recreation for

tne farmers of Oregon, permit us to write a few lines on the prospects generally. The fall season for seeding has been very favorable, and the farmers generally have taken advantage of the opportunity to put all the grain in they could. But strange to say there has been but little ploughing done for summer-fallow. The farmers seem to differ greatly, as to the best time for ploughing, most of them appear to believe that spring ploughing is the best time, inas much as they have the use of the stubble for pasture, while others think that summer-fallowing is being done only for the purpose of cleaning the ground, and therefore the earlier the ground is plowed the better, because more wild oats and wee s will come up on fall plowed ground than after spring ploughing. We wish that some experienced and judicious farmer would give us his views in regard to this matter in the FARMER.

Another question: we would like to see an-

wered in the FARMER, namely, what is the awered in the FARMER, namely, what is the cause that grain sown in the valley, or on low lands, grows much more rapid or rank in the winter, than that sown at the same time on uplands or hills? While at harvest the grain

A good smith would find a splendid location at Oak Grove for plenty of work and good, able people to pay. We understand the post office at Crowley's Station is to be discontinued; cause, no postmaster. G. H. EILERS.

HOW IT PAYS TO TAKE THE "PARMER."

PORTLAND, Oregon, Dec. 29th, 1882, Editor Willamette Farmer:

per, and the sooner the better, and how soon er or better than by sustaining one already in

Now, Mr. Editor, I am not a farmer, and I am only a new-comer to the Northwest, and . do not know that I ought to speak at all, but I like this country. It is a land of great promise for the future, and I mean to make it my home; nay, more, I mean to be a farmer here, and I want to indicate the fact that I am in-

terest d if I can do nothing more.

Mr. Knapp is right when he says it pays to take and read the Елемек; but I think he fails to impress this truth fully that it pays better to take the FARMER than it possibly can pay to take the b st agricultural papers in the East—even if they had the Eastern papers free. What if it does look a great deal of the stove when the hops get hot. The b st hop press, I know, is made in Waterville, N Y. and costs about \$80 in Portland. It is called the McCabe press, and makes a ba'e about the same size as the Harrisburg press. I do not know anything about the latter. Grub the control of the cost of the co pretty sare to show it up. But the Farmer is our promer and guide out in this new country; and what good is all their fine haired theories and delightful subtilities of scientific husbandry, if we have have no guide to assist us to a knowledge of the ground principles of our adaptability. We should take the FAB our adaptability MKE, not because it may pay better by and by if we support it now, but because it and does pay to take it now.

> The friendly writer of the above puts the question exactly as we have often felt it, and we thank him for his kind word, compled as is is with good sound sense. As to the value of our paper, it reflects the time in which we Lve, and the circumstances that surround us. They refer to circumstances and condi-