WILLAMETTE FARMER.

Miscellaneons.

2

FARMING IMPLEMENTS are likely to be scarce during the approaching harvesting season, says the Rural Press, if we are informed correctly. By the market reports for the past two years we find that very few agricultural tools, particularly harvesting machinery, have been imported to California; the large dealers in those articles in San Francisco, having two years ago a heavy stock left over on their hands. by reason of the drouth and consequent limited demand, this fact, in conjunction with a depression in prices last year, discouraged new orders. The commercial embarrassments of the old house of Treadwell & Co., which had an immensestock on hand, which was put upon the market in the midst of the season, by the assignee, at about 80 per cent. of the cost, caused another serious loss to other caused another serious loss to other holders of this class of goods in San Francisco; as, rather than carry a heavy and unprofitable stock for an-other season, they sold at almost any sacrifice. This heavy stock of agri-cultural machinery—which they had to hold over—was one of the principal causes of Treadwell's financial embar-rassments; and the season had so far causes of Treadwell's financial embar-rassments; and the season had so far advanced before the red tape of a bankruptey court allowed goods to be put upon the market, that Bradenstein & Co. (who bought the speculation, because it was about half cost) had to hold their threshers, headers and mow-ers over another year. but the sublext ers over another year ; but the subject has a more serious aspect for our far-mers, who have little to do with the profits of commercial speculations, and that is why we allude to the matter now. The coming season promises to how. The coming season promotes to be one of the most prosperous for many years for cereals; in short, it will be the great wheat year of this decade. If, then, there is to be a great demand for harvesting machinery all kinds, and there is not likely to be sufficient to meet that demand, will not the prices go up accordingly. It is possible that the best class of threshers, headers, mowers, and reapers, be-fore Spring may not be found when wanted, for love or money. It would be well for our farmers to look out in time, and be prepared for this possible emergency.

FEMALE TASTE.-A cultivated taste marks a woman of elegance and refinement as decidedly as a knowledge finement as decidently as a knowledge of classical literature does a gentle-man; and there is nothing in which female vulgarity is more clearly shown than in wapt.of.stwig nocilitmit of dispute; but it is a question how far taste is natural, and how far it may be acquired. A delicate taste must to a certain extent depend upon the organization of the individu-al ; and it is impossible for any rules to be laid down which will impart taste to persons entirely devoid of it. But this is very seldom the case with women; as it is one of the few points in which women naturally ex-cel men. Men may be, and probably are, superior to women in all that requires profound thought and general knowledge, but in the arrangement of a house, and the introduction of ornamental furniture and articles of bijouterie, there can be no doubt of the innate superiority of women. Every one must have marked the difference in the furnishing of a bachelor's house, and one where a lady presides ; the thousand little elegances of the latter, though nothing in themselves, adding, like cyphers, prodigiously to the value of the sol-id articles they are appended to.

From "The West." THE STATE OF OREGON. Geographical Features, Resources, Etc

BY JORN S. HITTELL, OF SAN FRANCISCO. [Continued.] PUBLIC LAND.

All the land of Oregon, 60,975,360 acres, became the property of the federal government, and no part of it is subject to any foreign grant. One-sixth of the area has been surveyed by federal surveyors into sections one mile square each ; and this the land occupied or sold, and that for which it is supposed that there government has given 8,375,786 acres to the State for educational purposes, and 500,000 acres for public buildings, has reserved 1,040,000 acres for Indians, given and sold 3,000,000 acres to individuals for settlement, has district near the coast, and is fragranted 1,813,000 acres to assist the construction of wagon roads, has granted 4,500,000 acres to assist the construction of the Oregon and California Railroad, and 3,200,000 acres to assist the construction of the Northern Pacific Railroad. The aggregate of these gifts and sales is 17,-278,786 acres, or nearly one-third the area of the State. The greater porof the railroad grants is promised under conditions which have not been complied with, and the legal title may remain in the federal government for many years to come. The grant to the Oregon and California Railroad Company extends from the Columbia river to the southern boundary of the State, through the heart of the western division, and is of great value. The land is offered for sale to settlers by the European and Oregon Land Company at fair prices.

The wagon road grants extend from Eugene City, by the middle fork of the Willamette, to the eastern boundary of the State; from Corvallis to Yaquina Bay ; from Albany, by way of Canyon City, to the eastern boundary of the State; and from The Dalles to the eastern boundvry of the State, on the line towards Fort Boise.

the fertile land now convenient of access west of the Cascade Range, and the settlers must expect to pay something more than \$1.25 per acre for desirable farm land, even if entirely unimproved. In the Willamette valley prices range for improved farms from \$5 to \$40 per acre. Many of the people are ready to sell, and those who have the cash to spare, can find great bargains. In castern Oregon, large areas of excellent land can be purchased at the Government minimum price of \$1.25 per acre.

RAILROADS.

In our time the progress of new upon their railroads, and their connection with extensive railroad sysgress has given 12,800 acres of land noted for the abundance an first of December 19,250,000 pounds distance of 600 miles, and the cars than 200 pounds a year for every perhad been sent by sea and rail to are running two-fifths of the distance son in the State. The orchards were New York and Boston, where it will -the road being about 100 miles from very profitable for a time-before the be manufactured and then returned the ocean, and parallel, in general orchards of California came into full in large shipments in the shape of course, with its shore. Other roads in the same direction connect at profitable, and many were neglected, Portland and Sacramento, so as to but are now again becoming more secure a great coast road from Mexico valuable. Large quantities of winter to British Columbia. The main Northern Pacific Railroad is to come down the valley of The climate of western Oregon is ture of this wool at home." This is the Columbia river, on the north well adapted to pears, quinces, plums, side, to Portland or vicinity, and to gooseberries, grapes and currants; that 25,600 acres of federal land have been given for each mile of the line. Another road, to be about 100 miles long, is to connect Portland with Astoria, and 20 miles of track have been completed. These roads will accommodate the western and northern districts of Oregon, but the south- quality and is considered a sure crop, eastern part of the State has no nav- and is the main agricultural export. igable water, and no provision has been made to supply it with railroads.

tend into the bottom lands and there mingle with deciduous trees. The Columbia river, and either packed most valuable, and also the most in brine, smoked, or canned with abundant trees of the State, are the red and yellow fir, known to botanists as the Abies Douglasii and Abies Grandis, and to lumbermen generally as Oregon pine. They frequantly reach a height of 250 feet and a thickness of eight feet in the trunk. The wood is hard and strong, and makes excellent frames for houses, and frames and planking for to the permanence of the supply. quantity of 10,000,000 acres includes ships, but it is too rough for finishing The Umpqua, Rogue, and smaller either the inside or even the outside of houses to advantage. Finishing have their spring and fall run of will soon be a demand. The federal lumber is supplied by the sugar pine, which abounds in some parts of the Cascade Range, and by the Oregon cedar, both of which grow about as large as the firs, and by the Port Orford cedar, which is found on a small grant with a terebinthine odor, that is to many persons considered very pleasant. The western yellow pine grows to a very large size, but is more abundant on the eastern slope of the Cascade Range than on the west. The yew and juniper give variety to the evergreen forest. Deciduous trees are few comparatively, the most common being oak, ash, and alder. Neither the oak nor ash timber of Oregon is equal in strength and elasticity to that of the Mississippi valley. No hickory, black walnut, poplar, wild cherry, or butternut lumber is procurable without importation.

> East of the Cascades, on the bottom-lands and lower hills, the trees are generally rare, small, and crooked in trunk and limb, with timber of little value for any purpose save burning. On the higher elevation of the Blue Range, however, where considerable quantities of snow fall in the winter, and lie until late in the spring, there are extensive forests of large and handsome trees.

The bottom-lands west of the Cascade Range are generally bare of trees, having been prairies when first visited by white men, but are covered by an abundant growth of indigenous grasses and ferns. In growth of bushes and briers, many of which bear fruit, but none of much value. The moisture of the climate is very favorable to the growth of ferns, which give the farmers much trouble in their cultivated fields.

AGRICULTURAL PRODUCTIONS. The agricultural productions in 1869

-the latest year for which we have statistics on that point-included 1,-750,000 bushels of wheat, worth \$1,-500,000; 500,000 bushels of oats, worth \$270,000 ; 500,000 bushel of potatoes, worth \$300,000 ; 200,000 bushels of maize, worth \$200,000 ; 200,000 bushels of barley, worth \$200,000; 5,countries depends, to a great degree, 200 bushels of rye, worth \$5,200 and 75,000 tons of hay, worth \$637,-000; making a total value for these tems. Provision has been made to articles of \$3,112,200. Of butter, 1,connect Oregon with the Middle and 000,000 pounds were made, and of the Northern Pacific Railroads, Con-cheese, 105,279 pounds. Oregon is CALIFORNIA, during 1871, produced per mile for the construction of a lence of its apples. The annual yield 23,000,000 pounds of wool, and on the road from Portland to Sacramento, a averages 300,000 bushels, or more bearing-but afterwards became unapples are shipped to California, the apples of which are not good keepers. and peaches, and apricots thrive in Rogue valley, but not in other parts of the State, where there is too much cold or moisture. The number of horses is 50,000, of neat cattle 220,000, of sheep 120,000, and of swine 115,000. The wheat is of excellent

forests of large conifers, which ex- portation. Large quantities of salmon are caught every spring in the just enough seasoning to fit them for the table. The fish weigh from fifteen to twenty pounds each, and can be purchased in the fishing season at one cent per pound. The amount taken annually in the Columbia is not less than 3,000,000 pounds, though three times as many might be taken without difficulty, or without injury The Umpqua, Rogue, and smaller streams emptying into the Pacific, all have their spring and fall run of salmon. Sturgeon, halibut, flounder, cod, herring, and smelt are also found in the rivers or near the coast, be-sides many other fishes of less value. sides many other fishes of less value. oysters exist in some of the bays.

POPULATION.

The population of Oregon in 1870 was 90,923, and is probably not less 96,000 now, or a little more than one person to the square mile. It is, however, very unevenly distributed, more than 60,000 living on a district of not more than 9,000 square miles, in the Willamette valley, making nearly seven persons to the square mile there, and leaving three persons to eight square miles in the remainder of the State. The population in 1850, when Washington and Idaho were still part of it, was 13,087, and in the year 1860, Washington Territory had when been organized, was 52,337, showing a gain of 300 per cent. in ten years. The gain in the last decennium was 73 per cent., and, if the same ratio is preserved for the next thirty years, and we think it will probably be greater, the number of the inhabitants will be 155,000 in 1880, 270,000 1890, and 460,000 in 1900. The following table shows the population, according to the U.S. census of 1870, and the taxable property, according ta the State assessment of the same

year by the counties : Counfies. laker lenton P 199. 9,804 4,584 5,988 1,988 1,644 6,825 1,644 4,778 1,204 6,425 8,717 9,965 11,510 4,701 4,088 2,916 2,509 4,200 4,200 slumbia. 3% oos..... ougus.... 1.12.32 321,604 1,203,814 202,553 1,767,780 2,979,687 3,174,919 5,944,786 ackson... ane.... linn Marion Multnomah Polk Fillamook 59,2 790,9 708,0 matilla. 905 907, 985 .90,923

.945

.604 .814

\$26,919,097 Baker and Union counties are east of the Blue Range; Umatilla has most its population west of the Blue Range, though some of its territory extends over to the eastern slope; Wasco and Grant are between the Blue and Cascade ranges; Jackson extends across the Cascade Range, though nearly all its population is on the west side ; and all other counties are west of the Cascades. By this that between the Blue and Cascad

Agricultural.

DRAINING.

This subject is being agitated somewhat in the columns of the FARMER, and is no doubt one of vital interest to the agriculturist. The first questo be answered in connection tion to be answered in connection with this, as with any other matter, is, "Will it pay?" If it will not, there is no use making any applica-tion of it. If it will, all of course will be interested. The farmer, who accumulates his gains by hard labor, is no exception to the rule. This be-ing a rearmant investment the tion wheat which averaged twenty bush-els to the acre, without any extra fertilizing, caused to increase its yield from six to ten bushels per

acre by draining. Many reports might be given to show the returns from this system, but we will not now stop to enumer-ate them, but will give some of the advantages to be derived from it.— One great advantage, particularly in our rainy climate, is, the ground may be worked at any time when properly drained; whereas, if not drained, seeding is frequently de-layed until too late for crops to ma-Draining prevents very effectually all injury from drouth, for the reason that the land does not become soaked and muddy, but keeps mel-low, and does not bake, or form a hard crust over the surface. would like to enter into details on this subject, but our space will not permit, and we will give a brief mention of a few of the advantages of underdraining. These, we hope, will suggest a train of thoughts to the farmer, and also induce some of our friends to take up this question, and show the probable cost of underdaining where a sys-tem of tiling is introduced.— Underdraining dispenses with open ditches and deep dead furrows, it lengthens the season for labor, and vegetation; it prevents the cracking of stiff clay soil ; also assists in pul-verization ; it admits of thorough verization; it admits of thorough admixture of manures; it permits absorption of fertilizing substances from the air; supplies air to the roots; it warms the soil by the heat passing downward; it renders the soil more friable; it prevents its heaving with frost; it admits of the easy eradica-tion of weeds; it admits of the pas-sage of heavy-draught vehicles with-out injury, and one advantage, greatsage of heavy-draught vehicles with-out injury, and one advantage, great-ly needed in this country is, it admits of the pasturage of animals in win-ter without injury to the soil or the grass. These are a few of the many advantages offered. We stop here, hoping to hear from some friend who has studied up this question more thoroughly.—Dallas Republican.

Cause of the Deterioration of the Wheat Crep.

Frederick Watts, Commissioner of Agriculture, in a recent letter says :

"The experience of many years has led me to the conclusion that the deterioration of the wheat crop is mainly attributable to the improper and untimely use of barnyard ma-nure. In our practice the clover sod hure. In our practice the clover sou is turned down and planted with corn. The ground is again plowed in the spring, and sowed with oats, and up-on the stubble of this crop all the maare west of the Cascades. By this classification, the region east of the Blue Range has 5,218 inhabitants; This delicate plant is thus subjected yard food, with all its germs of flies, worms, lice and bugs-seemingly a sufficient cause of the unsuccessful growth of a grain so pure and deli-cate as wheat. Corn is the heg of plants, and will devour food of any plants, and will devour food of any quality and thrive upon it. Here, then, upon the sod, to be plowed for corn, is the place for barn-yard ma-nure. Bury it deep, and when the corn is cut off, break the stubble even with the ground during winter. In the coring harmow the ground well Englanders, and in the country mostly natives of Missouri, Illinois, Indiana, and adjacent States, and people of strong character and enter-prise, as might be inferred from the this crop is removed, bring your ma-nure to the surfoce by deep plowing and thcrough tillage. The barn-yard manure having thus received proper preparation, is a fit food for the wheat plant. Experience has taught me preparation, is a fit food for the wheat plant. Experience has taught me this lesson. On my farm in Pennsyl-vania I never fail to raise a satisfac-tory crop of wheat, and I have known no such thing as Midge, Hessian fly, or army worm."

casimeres and other kinds of woolen goods, to be consumed by our citizens. Such a system of trade can be but most disastrous to our prosperity as a people, and every effert should be made to provide for the manufacfrom a California paper. Similar remarks would apply to the way in which much business is done in Oregon.

IRELAND has been said by one of the Jewish papers to be the only Eu-ropean country in which the Jews are given full rights and treated kindy. Such being the case, it is singu-ar that there should be only 258 Jews in Ireland, as a recent census shows to be the case.

The Thames tunnel, thought to be such a novelty, was anticipated by one under the Euphrates at Babylon. and the ancient Egyptains had a Sues

TIMBER.

FISHERIES.

The rivers of Oregon abound in fishes, of which the most important Western Oregon is abundantly sup-plied with timber. The hills and half a dozen different species, all mountains are covered with dense large, palatable, and valuable for ex-

Ranges has 7,616; and that west of the Cascade Range has 77,936.

Portland may be regarded as the exclusive scaport of Oregon, but when the projected railroad to Astoria is completed, the latter place may become its rival.

In the towns, many of the adult cople are New Yorkers and New conditions under which the country was settled. They are kind, sociable, and hospitable; their descendants will be hightly educated, and their state prosperous. The settler who comes to make his home among them is received as a friend at once, without ceremony, unless something in his manner, or the circumstances of his arrival, throw suspicion upon him. In western Oregon, the population is permanent; in the eastern districts, much of it is migratory.--Indians were formerly numerous in Oregon, but the present number is small, and all are friendly with the whites.

From an interesting article in a re-cent issue of the London Times, we learn that steam cultivating machin-ery is coming into very general use in England. One large firm have been sending out from eight to ten plowing engines per week, most of which are for use in districts where they can be hired by several differ-ent farmers. From an interesting article in a re-