# PAYS TO GROW IT

## Alfalfa Is a Most Profitable Crop To Raise

(Continued from last week.)

Manures and Fertilizers.

"It is especially desirable that the soil be supplied with an abundance of lime. Alfalfa is a heavy feeder and will thrive on soils deficient in plant food. The Willamette Valley soils are somewhat deficient in lime, and therefore an application of 100 pounds per acre of land plaster should be made. Although alfalfa can obtain a supply of nitrogen from the air when the plants are well started, it is necesthis element at the time of sowing, in order to start the young plants with The fertilizer field. growth. which will best accomplish this is a good barnyard manure. The manure should be applied to the land at the time of growing the crop of the pre-ceding year, at the manure then has time to decompose and become valuable, and the weed seeds contained in upon the seed before sowing. The the manure have time to germinate and be destroyed before the alfalfa has started.

'If barnyard manure cannot be readily obtained, and there is any danger dition frequent cutting is helpful in of the soil lacking the necessary elements of fertility, then field peas or vetch should be grown during the preceding season. These plants will add nitrogen and vegetable matter to the

alfalfa plant. "During the season of 1905 the writseeded two pieces of ground to al-The soil on the first piece was piece and by Fall the catch was very poor. The second piece during 1904 had raised vetch, and on this piece the all summer and maintained a vigorwhich the other soil lacked.

Seed and Seeding.

"Pure seed is essential. Only that which is bright, plump and green should be used. The seed resembles that of red clover. In purchasing albe free from dodder seed. Dodder is an orange yellow-colored vine which at any time. grows as a parasite upon alfalfa plants and looks like yellow string. It starts in the ground from a seed, and then hooks on to an alfalfa plant, shoots out just before full bloom, as it contains a short distance and hooks onto an- the most nutriment at this time and it other plant; and in this way, if let alone will soon cover a considerable cut it before it is in full bloom. The dodder plant, then the dodder plant method used in curing it. The prepavails itself of the most of the plant aration of hay from alfalfa is essenfood supply and will begin to grow tially the same as from any of the rapidly, greatly injuring the growth grasses, being modified somewhat by of alfalfa. If a field should become its succulent nature. After cutting badly infested with dodder, it should it should be allowed to lie in the be plowed an and devoted to some other crop for a few years. Small infested patches can be removed by hand, or the patches can be cut and for a few hours before putting into then burned over by scattering straw or hay over them and burning it. The dodder plant has no roots in the soil, which usually requires three or four and consequently can also be removed days. It should then be hauled to the by cutting the alfalfa close to the barn without further handling. ground.

'The proper way to avoid dodder is not to plant the seed. Dodder seed trates alfalfa very readily. These caps from the path of duty. is somewhat smaller than alfalfa seed, are pieces of cheap sheeting into the bean-like in shape. An examination fastened. In Wisconsin such caps are Republican to see to it that this is of the seed under a magnifying glass used very successfully, and the reder seed, and then if new seed cannot trouble. Alfalfa hay is worth almost be obtained, an attempt should be as much pound for pound as bran, and made to remove the dodder seed by mesh of which will be large enough it in good shape. to catch the alfalfa seed, and allow the dodder seed to pass through.

Preparation of the Soil.

"An alfalfa field is practically permanent and will well repay the expense of carefully and thoroughly pre paring the soil. Not being provided with creeping roots or stems alfalfa will not spread, as in the case with such grasses as Kentucky blue grass. The individual plants become larger the crown, but bare spaces in the on the proper method of culture: field will not be filled except as new seed may be sown. Young alfalfa is quite tender and is easily crowded moisture or other unfavorable condi-

"If a piece of sod land is to be con-The soil should be somewhat compact for the seed, hence plow the land in the Fall, allow it to smoothing harrow. the same Spring, the plowing should way, strong, well rotted plants will be done as long before sowing as pos-sible and the newly plowed land "In Western Oregon it is importshould be sown on a field that has just atmospheric nitrogen. had a green crop turned over. Time should be allowed for the new mabroadcast on newly plowed land and such ground."

harrowing to mix the seed loosely with the surface soil. The ground on which aifalfa is planted should be finely pulverized and then rendered somewhat compact by rolling, and then the immediate surface soil should be lossened by means of a light harrow or weeder, and the alfalfa seed thus covered. After the ground has been well cultivated and prepared it should be allowed to lie fallow for about ten days to two weeks so that the weed seeds will germinate. It should be then harrowed for the purpose of destroying the weeds, and then the alfalfa seed should be sown.

"From 20 to 25 pounds of seed should be sown to the acre. Care should be taken that the seed is not put in too If planted more than three inches deep there is danger that the germinating plant will not be able to reach the surface. One-half inch to two inches below the surface are about the extremes. The seed may be sown broadcast, using some kind sary that the plants obtain plenty of this element at the time of sowing. be drilled in both ways across the

Early Treatment. "The growth of weeds should be checked early, and as soon as the weeds are large enough should be clipped slightly by the cutting bar of a mowing machine. If the clipping is not too heavy it can be left on the field, otherwise it should be removed by forking and without raking, in order not to disturb the young plants. This destruction of weeds in the young growth is very important, and in adestablishing the young plants.

"Alfalfa should be cut every time it begins to blossom, whether the growth is short or tall. If left until fully blossomed the quality of the product soil in the form needed by the young is reduced, and the plants are injured and subsequent crops are smaller. Established Fields.

"The chief value of alfalfa is as falfa. The soil on the first piece was a green forage or soiling crop. Afvery carefully prepared for the purpose. The other piece was pladed or four cuttings may be secured in a for crother crop and was pladed and for another crop and was cloddy and season. It is not safe pasture for catfin bad condition for seeding to a crop
like alfalfa. A good catch, however, was obtained in both places, but ow- all they will eat the fodder should be ing to the dryness of the season the allowed to wilt before it is fed. Alalfalfa soon began to fail on the first falfa is one of the most palatable of fodders and animals which naturally have a greedy appetite will injure themselves with it if allowed to do so. young alfalfa plants remained green Such animals should be fed sparingly until they become used to the diet, ons growth. It therefore seemed that the vetch had supplied something as 50 pounds of green forage per cow per day have been used at some of the Stations, and no cases of bloating have been observed where the forage was allowed to wilt before it was fed.

"It is not advisable to pasture alfalfa at any time. The younger plants falfa seed care should be taken that the seed intended for sowing should continued pasturing, and much tramping is injurious to crowns of the roots

Alfalfa as a Hay Crop. If the alfalfa is cut above the value of the hay depends much on the

"If the weather is unfavorable hay caps should be used, as water pene is more angular, and is not curved or corners of which light weights are the ticket, and it is the duty of every should be made in order to detect dod- sults certainly justify the expense and certainly such hay justifies any rea-

> 'Alfalfa should not be left in the field long enough to become dry or brittle, or many of the leaves will lost in handling and thus very mate rially reduce the value of the hay. Method of Culture Adopted at the Or-

egon Experiment Station.

"The Oregon Experiment Station has successfully raised alfalfa at Cor-vallis, Oregon, and Dr. James Withy-placed on the market, and on investicombe, director of the Station, fur-gation we found that at last there is each year by the increasing size of nishes the following short statement

"'If the land has been farmed for a number of years it is a good plan began to know about this remarkable to plow under, in the Fall, ten or fifaside, or choaked out by weeds, or teen loads of stable manure per acre, for it and it is selling beyon lour ex checked in its growth by lack of eight or ten inches deep. Allow the pecuations. land to remain fallow during the Win- It's not often that a druggist sells ter. In the Spring when the soil is in good condition to work, cut up the tee our unless cured of nerv sness, verted into an alfalfa field, it should ground with a disc harrow and pulver-dizzy spells, sour stomach, coated be plowed and planted with some cul- ize very finely. Then allow the land tongle palpatation, and other symptivated crop for a year or two before to lie fallow for a week or ten days tons of dyspeps a. Huntley Bros. will in order to put the soil in good phy- so that the weed seeds on the sur- hand back your money cheerfully and sical condition. In any event it is de- face of the soil will germinate. Then without argument. sirable that the preceding crop should harrow thoroughly and sow twenty be one which requires cultivation such pounds of alfalfa seed, one hundred a 25-cent box of Pepsikola Tablets as pounds of land plaster, and if the seed they will not cost you a cent should has not been treated with nitro cul- they fail to relieve and cure the very it is not wise to sow alfalfa on newly tures, put on one hundred and fifty worst case of indigestion and dyspepplowed ground. It is a good plan to pounds of inoculated soil per acre. Cover this with a light harrow. Perremain fallow in the Winter; and in mit no stock to graze the alfalfa the JOHN BITTNER GETS CONTRACT. the Spring when the soil is in good first year. Run a mower over the condition, it should be cut up with a ground several times during the sumdisc harrow and pulverized with a mer so as to subdue the weeds and If it is desired to at the same time keep the alfalfa sow alfalfa on land which is plowed clipped close to the ground. In this

should be rolled to compact it, and ant that the seed be either treated and Seventh streets was awarded to be afterwards lightly harrowed to with nitro cultures, or inoculated soil leave the surface finely pulverized and used so as to introduce the necessary prevent the loss of moisture. Alfalfa | bacteria to enable the plant to utilize

"'Alfalfa likes a fine, but solld seedbed, hence spring plowing is not usually advisable. Occasionally a soil terial to decay and for the acid to be ally advisable. Occasionally a soil worked out by one or two good rains. may be too acid for the alfalfa bac-It is not desirable to sow alfalfa with teria. This may be corrected by putany nurse crop. The soil should be ting on one-half ton of freshly slack-packed around the said. Many fail ed lime, or one ton of wood ashes per ures to secure a good stand of alfalfa | acre. Soils which are welldrained, are traceable to sowing the seed however, are not usually sour as the Hurlburt, of the O. W. P. Ry. Company T. Blenco to V. Burr, part sec. 9,

# Constipated All His Life.



and MRS. WILBERT THOMPSON, 801 Main St., Peoria, III. MULL'S GRAPE TONIC CURED HIM.

dibert Thompson never knew a well day until last June—he had been constituted all his life—many doctors treated him, but all failed to even help him—his health failed rapidly and on January 21, 1903, Mrs. Thompson asked us to suggest a treatment for her husband—We thought the case too serious and recommended that a specialist be consulted—but he also failed to help the patient—NOW HE IS WELL.

# Mull's Grape Tonic Cured Him

Mrs. Thompson first wrote us as follows: "My husband, aged 2s, suffers from sharp pains in his stomach and sometimes thinks it is his heart. Let me know by return mail what causes the pain, if you can. Mr. Thompson has been treated by several doctors, but they have given him up."

We promptly advised that a first-class specialist be consulted. We quose: "We want to sell Mull's Grape Tonic, because we know it will cure constipation, but 50c. a bottle is no object to us when a human life is at stake, and if your husband's case is as serious as you state, we suggest you consult a reliable specialist, not the advertising kind, promptly." At the same time, knowing that Mull's Grape Tonic could do no harm, we advised its use until a physician could be consulted. January 25 Mrs. Thompson wrote that a physician had been consulted. He diagnosed the case as being chronic constipation and dyspepsia. His treatment was followed faithfully, but there was no perceptible improvement in Mr. Thompson's health. Then he began taking Mull's Grape Tonic and on Sept. 3, 1903, we received the following letter from Mrs. Thompson:

"You will remember that I wrote to you last January in regard to my husband's health. It is four months since he quit taking Mull's Grape Tonic for constipation, which he suffered from since birth. He took just 24 bottles of it and is perfectly oured. He is much stronger and has gained considerably in flesh. I cannot thank you enough for Mull's Grape Tonic. 'It is worth its weight in gold.' Just \$12 cured him and he has spent hundreds of dollars with doctors who did him no good. Now I want to state my case to you and expect your early reply. I also have constipation, have had for three years. Kindly let me know as I am sure it will cure me if you say it will, as it did all you claimed it would in my husband's case. I await an early reply."

Very respectfully yours, MRS. W. H. THOMPSON, 801 Main St., Peor's, Ill.

### YOU 50c. BOTTLE.

This Coupon is good for a 50c. Bottle of Mull's Grape Tonic.

Fill out this coupon and send to the Lightning Medicine Co., 157 Third Ave., Rock Island, Ill., and you will receive a full size, 50c. bottle of Mull's Grape

I have never taken Mull's Grape Tonic, but if you will supply me with a 50c. bottle free, I will take it as directed.

City .... GIVE FULL ADDRESS AND WRITE PLAINLY.

If you are afflicted with constipation or any of its kindred diseases we will buy a 50-cent bottle for you of your druggist and give it to you to try. If you are constipated we know it will cure you. Surely if we have such confidence in our remedy as to pay for a bottle of it that you may test for yourself its wonderful curative qualities, you should not refuse to accept our offer.

Mull's Grape Tonic
is the only cure for constipation known. We do not recommend it for anything but Constipation and its allied diseases. It is our free gift to you. In accepting this free bottle you do not obligate yourself further than to take its contents. Mull's Grape Tonic is pleasant to take and one bottle will benefit you. We want you to try it and, therefore, if you will fill out the attached coupon and mail it to us to-day we will instruct your druggist to give you a 50-cent bottle and charge same to us.

HOWELL & JONES, Reliable Druggists.



REFER TO RECORD.

state taxes while in 1904 this tax was almost double, \$41,037.50, having to be paid to the state. The following year, 1905. Clackamas county's state tax was \$34,337,50

(Continued from page 1.)

Should Be Continued. For reasons that have been recited, the Republicans of Clackamas county feel that the ticket that has been nominated is deserving of the unanimous "Alfalfa where desired for forage or support of the members of the party as well as citizens, irrespective of party affiliation, who appreciate a business administration of public affairs. With the record that has been made in practically wiping out the county's enormous indebtedness and at the same time keeping the expenses of the county at a minimum, the Republicans are willing to submit their case to the jury, composed of the electors of the county, whose verdict that will be rendered June 4, will unquestionaably be for a continuance of the satisfactory business administration of county affairs that has been established by the Republicans

ARE ALL GOOD MEN. (Continued from page 1.)

-let any personal feeling swerve you

Stand by your colors, boys. Yours for success, E. C. HACKETT.

AN INTERESTING STATEMENT.

Huntley Bros. Say they Have at Last ed. Discovered a Positive Cure for Indigestion.

'For years," said a member of the above drug firm, "we have been waiting for some one to discover a remedy that will really cure dyspepsia." We recently learned that a new a remedy that will surely cure."

"We laid in a big supply because we knew that as soon as the people emedy there would be a big demand

r haw remedy on a positive guaran-

No one should hesitate on trying

City Council Held .a .Busy .Special Meeting. At a special meeting of the City

Council held last Friday night the contract for the improvement of John Quincy Adams street between Sixth John Bittner, he being the lowest bid-The cost of this improvement by Mr. Bittner will be \$970.23. other bids received were. E. D. Olds, \$970,30 and J. W. Jones, \$1050. The bid of Mr. Jones, being irregular, no a soil check accompanying his proposal, was not considered. The estimate of the City Engineer for this improvement was \$922.72

A saloon license was granted Louis was read acknowledging the thanks 2-3, E.; \$475.

of the Council for a special car by the company the night Officer Hanlon was

An ordinance was introduced and read first time requiring the City Treasurer to file with the City Recorder, duplicate receipts for all money received by him excepting only money taken in for street, and sewer improvements under the Bancroft act. purpose of this arrangement is to establish a checking system by which the accounts of the two offices can be

readily compared. The street committee recommended the creation of a new sewer dis- in section 4-3, E; \$500. trict in the vicinity of the Eastham school, the same to be a sub-division of Sewer District No. 2. The territory included in the proposed district consists of Lots 3, 4, 5 and 6, blocks 38, 42 and 46; lots 3, 4, 5 and 6 of fractional block 46; block D., a strip 132 feet westerly along Seventh street off the northerly side of the public square between Harrison and Taylor streets: blocks 1, 8, 13 and 100 feet off the west side of blocks 4, 7, and 14 and 100 feet off the east side of blocks 2, 9, and 12 of Holmes Adidtion.

The matter of city printing was left with the finance committee with instructions to enter into a year's contract wherever the best terms can

REAL ESTATE TRANSFERS

We can easily elect every man on Furnished Every Week By the Clackamas Abstract Company.

The Clackamas Abstract & Trust Co. are owners of the only complete Abstract plant in Clackamas county. Prompt and reliable work on short notice, and all work guaranteed. Abstracts made, money loaned, mortgages foreclosed, trusts exe cuted, estates settled and titles perfect-

T. F. Ryan to C. E. Ramsby, lot 7 blk 157, Oregon City; \$390. C. A. Looney to Garfield Grange No.

317, half acre in sec. 26, 3-4 E.; \$25 Wm. Knight to Carlton & Rosekrans lot 5, blk 3, Canby; \$500. E. C. Giltner to B. F. Giltner, blks 2 4, 25, 26, 27, 30, 31, 32, 53, 54, 55, 58, 59 and 60 in Minthorn; \$500.

O. Greonow to O. Boden 453, acres in Stone claim, 3-3, E; \$10. D. Calkins to M. Weber, lots 3 and 4, blk 57, Oak Grove; \$700.

E. F. Noland to W. F. Cochrane, lot 3 sec. 34, and east half of lot 1 sec. 33, Gladstone Real Estate Association to J. M. Tracy, 2 acres in blk 24, Glad-

stone. \$620. O. R. Mack to O. E. Ames, 1.46 acres in sec. 4, 4—1, E.; \$700. J. C. Bollantz to C. E. Burns, Jr., lot 6 blk 4, and lot in blk 5, Green Point;

\$200. E. T. C. Stevens to E. A Roots, NE of NW sec 1, 2-3, E.; \$1,000. C. D. Bradford to J. L. Hoyslin, part lot 18 blk 11 Milwaukie Park; \$1.

J. L. Joslin to C. D. Bradford, E. 50 feet of lots 13, 14 and 15, blk 11, Milwaukie Park; \$42. 50. C. B. Moores to B. Irwin et al., blk 46, Minthorn; \$450.

two and one half acres 5—1, W.; \$200. W. G. Welch to P. L. Welch 15 acres in secs. 10 and 11, 2—2, E.; \$1. W. G. Welch to E. R. Capps, 25 ac. in secs. 10 and 11, 2-2, E.; \$1.

D. S. Livesey to E. Critofferson

F. M. Forman to G. Forman et al. acres in sec. 23, 2-3, \$160. C. Kerr to O. A. Schmidt half acre in claim 38, 1-1, E; \$500. G. F. Anderson to A. M. Horn, part

block 27, Oregon City; \$10. A. M. Horn to G. F. Anuderson part block 27, Oregon City: \$5. A. M. Horn to O. O. Anderson part of block 27, Oregon City; \$5.

B. F. Frost to J. H. Merritt lot 5 blk

32, 1-3, E.: \$350. J. E. Boyer to C. A. Hockett, 2 DePurdusin and a letter from W. H. one-half acres in Cl. 44, 2-2, E.; \$150.

J. W. Loder to W. B. May blk 6 and blk. 5 Sunset City Add; \$30. part of 7 Mountain View Add.; \$1. L. Herron to Bowman & Pinney, 82.84 acres in sec. 4, 3—1, W.; \$2,460.

acres in 6-1, E.; \$3337. S. L. & I. Co., to M. O'Brien blk. 52. 67, 68, 81, and 82 Oak Grove; \$9438. M. O'Brien to Roman Cath. Arch Bishop, same as last: \$10,000. A. Heidman to F. Storm, 25 acres

W. W. May to G. E. Loder, lots 3 to 6, blk. 3, Ely Add; \$1.

82.84 acres in sec. 4, 3—1, W.; \$2,400.
E. A. Sperry to O. Hettman, SE of NW sec. 11, 2—2, E.; \$1,400.

J.L. Udell to L. Spencer 24 acres

J.L. Wakefield to J. Chowning SE of SE of Section 30, 1—5 E; \$800.

J.L. Udell to J. Chowning SE of SE of Section 30, 1—5 E; \$800.

J.L. Udell to J. Chowning SE of SE of Section 30, 1—5 E; \$800.

E: \$2000 M. J. W. Pettitt to E. A. Mino, .90 acres in section 4. 3—3, E; \$1500.

M. A. McGinnis to P. B. Lerwill W half o NW section 2, 4—2 E; \$2600.
J. F. Clark, Atty at Law, President and Manager.

E. Clevenger to James Ward lot 8, Over Bank of Oregon City.

# FOR WOMEN ONLY.

There are good and substantial reasons why intelligent people and physicians as well, employ Dr. Pierce's Favorite Precription for the cure of diseases and weakness peculiar to women.

In the first place, it is not a cure-all, serving only a singleness of purpose, being a specific for one class of diseases only—those peculiar weaknesses and maladies incident to women. Besides it is the only medicine put up for sale through druggists for the cure of such maladies, all the ingredients of which have the endorsement of leading medical practitioners and writers, as being the very best known remedies for the ailments for which "Favorite Prescription" is advised. All this will be learned to the

very best known remedies for the ailments for which "Favorite Prescription" is advised. All this will be learned to the reader's full satisfaction by perusing a booklet of extracts compiled by Doctor Pierce from standard authorities of the several schools of practice, and which will be sent tree to any address on request for same, mailed to Dr. R. V. Pierce, Buffalo, N. Y.

In the second place, Dr. Pierce's Favorite Presciption is the only medicine for woman's peculiar weaknesses and affections all the ingredients of which are printed upon the bodite wrapper in plain English, so that all who take it may know exactly what they are using.

A further reason for the unprecedented popularity of the "Favorite Prescription" of Dr. Pierce for the special use of women is to be found in the fact that it contains not a drop of alcohol—pure, triple-refined glycerine, of proper strength, being used instead, both for extracting and preserving the medicinal principles extracted from such roots of native, medicinal, forest plants as are employed in its make-up. The printed formula will also bear witness that it contains no narcotics or other harmful or habit-forming drugs, being entrely made up of glyceric extracts of native, American plants of marvelous efficacy in the cure of the diseases peculiar to women.

Now, in this connection, it is well to

of the many kindred distressful and painful symptoms which accompany female weaknesses, then you cannot find any remedy quite so perfectly adapted for the cure of your malady as Dr. Pie ce's Favorite Prescription. Bear in mind, it is not a secret postrum is not a parter. is not a secret nostrum, is not a patest is not a secret hostrum, is not a patent medicine, to the use of which most intelligent people object because of the close secrecy with which the formulæ of such medicines are held, and which, no doubt arg many times harmful in the long run, especially as all those for women contain large quantities of alcohol and oft times other objectionable ingredients. The only wise and safe course is to use only MEDICINES OF KNOWN COMPOSITION, and

English. so that all who take it may know exactly what they are using.

A further reason for the unprecedented popularity of the "Favorite Prescription" of Dr. Pierce's for the special use of women. Is to be found in the fact that it contains not a drop of alcohol-restrength, being used instead, both for extracting and preserving the medicinal principles extracted from such roots of mative, medicinal, forest plants as are employed in its make up. The printed formula will also bear witness that it contains no narcottes or other than the contains on anarcottes or other contains on lants of maryelous efficacy in the cure of the diseases peculiar to women.

Now, in this connection, it is well to bear in mind, that, curious as it may seem yet it is a fact that Dr. Pierce's read and the season yet it is a fact that Dr. Pierce's read the consenting weaknesses and maladies that does not contain alcohol and that too in large quantities. This fact can be easily proven; and yet it is a fact will know to all the best physicians that alcohol, even is sarry harmful, and appearing the effect of spirituous wines and figuors, sold under various enticing names may at first be to exhilerate, brace—up and unduly support the system for a brighting than the original affliction.

Furthermore, Dr. Pierce's Favorite Prescription has a recomplity support the system for a brighting woman—and any other medicine in its line can boast of. Thousands have escaped the disagreeable ordeal of the doctors' questionings, and offensive examinations by taking this remedy and being cured in the privacy of their homes. It has cured thousands of bad, obstinate cases in which doctors and fall and the will be complete recovery than doubt, however, it is because of their homes. It has cured thousands of bad, obstinate cases in which doctors and fall and the will be continued to the privacy of their homes. It has cured thousands of bad, obstinate cases in which doctors and fall and the will be continued to the privacy of their homes. It has cured thousands

and you give it a good, fair and faithful trial.

In favor of Dr. Pierce's Favorite Prescription being regarded away above the secret patent medicines of our time, is the