WHEN TO CUT ALFALFA

County Agriculturist Tells How to Get Best Results. By A. E. LOVETT County Agriculturist.

There is a right time to cut alfalfa fer obtaining the most hay during a season and for the good of the crop. Many reasons are given by men raising this crop for the time they cut for their hay and pessibly the man who has no reason but cuts his crop on the same date each year is as near right as many of the others, However, there is a certain stage at which you may get the maximum "feed" in your alfalfa hay and not injure the following crop.

If we cut alfalfa too young, we get a larger percentage or water and less dry matter and the hay "shrinks" badly. If we cut the crop too late, we not only get "stemmy" hay but also lose valuable feed in shattered leaves and injure the following crop. In case of "backward" spring weather or attacks by insects, the first crop may not make No. 1 hay but it is necessary that it be hervested, whatever its condition, in order that the following crop may not be injured and may make a "good" erop.

following crop begins to grow, indieated by new aprouts from the crown. crop to be harvested will Improve but little under almost any crop may do its best.

the time for the first cutting. Try it for about one hour ..

you were before you had rheumatism, backache, swollen, aching joints and stiff, painful muscles? Want to feel that way again? You can—take Fo-ley Kidney Pills. For they quickly clear the blood of the poisons that cause your pain, misery and tormentrheumatism.-Adv. Patterson

OUR SOILS NEED HUMUS

Addition of Vegetable Matter Will Increase Fertility.

By A. E. LOVETT. County Agriculturist.

Most of us on farms in this section of the country fail to appreciate the fact that we are developing a desert Our soil here, before cleared and farmed, probably has never grown anything but sagebrush. the juniper and a very little bunch grass. There is practically no vegesoil can produce a maximum crop when in this condition and, until we add this necessary humus to our soil, ce cannot realize the profits from it that we should:

Practically all of our soils today ack" or "blow" or "wash" and or "wash" and each of these conditions may be remedied by adding humus to the soil soils, at present, grow good crops and this indicates the presence of much good plant food in them. However, for maximum growth and production, plants require other conditions than be mere presence of the plant food. They require the presence of both all 1-16-12. time and the most of them require it the "body" which only, decayed or- gr ganle matter can give to the soil. Most vegetable matter or humus also provides available plant food.

The most efficient and valuable thing that we can use for "building up" our soil is barnyard manure. purpose, this manure may be spread to the purpose, this manure may be spread to the land any time and plowed in the purpose. on the land any time and plowed in at regular plowing. However, barnyard manure is also an invaluable fertilizer if used properly and, for this purese, should be so handled as to get the full benefit of both the liquid and the solid materials.

The use of green manures will the liquid and the solid materials.

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uid and the solid materials,

The use of green manures will probably prove the most practical on the most of our farms, at present, because of the comparatively few livestock we keep. Green manuring is simply the plowing under of a green crop and any crop, even weeds, may be used for this parpose, Clover, field peas, rye or rape are probally the most practical crops for this purpose in this section and the use of any of these will bring about noticeable results. Even if the crop of field peas or clover be removed from the land, much bumus is added to the soil because of their rank root growth, and, if they be harvosted for the land and practically the whole

GASOLINE-

R. E. Hardy

of the crop, valuable for humus, be added to the soil.

Few farmers can afford to add the necessary humus to all of their land in one season but all can add it in some form to at least a small patch ance Co. to State its. 1, 2, 11, 12, in one season but all can add it in some form to at least a small patch each year and gradually build up the bik. 2, Laidiaw, Bend Park Co. to Ella Glossop it.

MARKET REPORT.

NORTH PORTLAND, June 12. Receipts for the week have been: cat-1497, ealves 35, hogs 2048, sheep Cattle liquidation smaller for the week, due to mid-season between fed steers, \$7.75 to \$8; hay atters \$7.50 to \$7.75; best grass steers Good call for prime \$7.25 to \$7.60. dehorned cows and helfers. Butcher stock steady all down the line. Demand for hoga better than last week, with fairly good number of receipts. Five to ten cents higher. Tops selling at \$7.85 to \$7.80. Moderate receipts of sheep and lumbs this week, Improved demand. Fancy yearlings 4.85 to \$5; old wethers \$4.25 to \$4.50; Elwes \$4 to \$4.25, Lamb trade firm, apring stock seiling readily at

FINDS TOAD UNDERGROUND

A resident of the Whitaker Valley same may be true, but seldom the has sent to The Bulletin the follow-same year, of a "second" crop when drought or insects "set it back."

The time to cut first year alfalfa "Edw. Thatcher while engaged in

if there are many weeds in the field excavating for a cistern, at a depth is when the weeds begin to shade the of 5 to feet from the surface, uncovis when the weeds begin to say. Never ared a live toad of ordinary alfalfa, at do not cut too low. Never ared a live toad of ordinary alfalfa, at do not cut too low. Never ared a live toad of ordinary with cut new alfalfa too close to the was found encased in hardpan with cut new alfalfa too cut the "sat" no opening anywhere discernable. The surface soil is about two feet in depth. This is underlaid with some rock and concrete of lime formation, very hard-which continues beyond condition after this time and it is the depth reached by digging. The heat to get it off the ground as soon hard pan is being broken by means pan is being broken by means as possible in order that the following of chiseling. The toad when removed from its small cavity, was found to it pays to watch for these new be sive and of natural color. It sprouts, especially for determining lived on the surface of the ground When placed water it immediately died. water was rain water caught from a Get Rid of the Torment of Rheuma- paper roof and may have been injurtism. lous. Now some natural interest is ritemember how spry and active felt in the history of this particular amphibian. Will you or some one of your readers, please give a possible explanation of the living toad; tell how long it has been there and how did it come to be thus encased.

> REAL ESTATE TRANSFERS. (Issued by the Crook County Abstract Company.)

Marion Mayfield to M. S. Mayfield SW SE 6; Wth NW 7-17-17, \$5800. U. S. to N. P. Ry. Co., patent SW 40-20-11; SE SW 20; SW SE, SE SW 21; NW NE, NE NW 28-17-12; H. 4, 4-18-12; E16 SE 19; SW SW 20; NW NW 29-20-12; SE SW 4-9-15; NW SE 17-9-16; SW SW 8; E16 24-10-16; SW SE 33-13-16; SW SW 2-18-16; SW NE 42-19-19; N½ SW 27; N½ SE 28-20-20; SE SE 31-

S. to Chas. A. Stevenson patent SE NW. SW NE, E4 NE 35; W4 SW 25; E4 SE 26-19-19. Bend Co, to Wm. Price it. 10, blk. 31 Center add, Bend.

Bend Co, to Hend Park Co. It. S.

bik, 46 Center add, Bend. Cass A. Cline to Frederick Walter,

SE SW 8-14-12, \$2000. Bend Co, to Cascade Realty Co. purchasers' agreement, blks, 1, 2, Cascade

State to Chas. Mock NW NE. SW SE, SE NE 3-17-11. Practically all of our NE, SE NE 3-17-11, \$728.

State, right of way over W 1/2 SW, SW NW 13; NE SE 19-17-11.

U. S. to Geo. W. Hall patent its. 4, E25 8W 18-16-13. Dan Catiow to Olile S. Jones SW

Bend Park Co. to H. L. Quigler 24, blk. 122, 1st add Bend Park,

t. S to Horace Brookings (2) Datent, NW SE, S\(\frac{1}{2}\) SE 7. SW SW 8. N\(\frac{1}{2}\) N\(\frac{1}{2}\) SE NE, N\(\frac{1}{2}\) SE 18-22-21. U. S. to Mary S. McMulles, patent 2. 3. SE NW. S\(\frac{1}{2}\) NE, NE SE, E\(\frac{1}{2}\)

U. S. to Santa Fe Pacific R. Co. SW SE 18, NE SW, It. 3, 7-12-14, NW SE 12-12-13. Virginia Freitas to Princyille Land

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3, blk, 46, Center add, Bend, Hend Park Co, to M. A. Hamer Its. 3, 4, blk, 120, 1st add Bend Park,

John L. Bjorneberg to C. H. Webber NW 34-19-13. H. Webber to Scanlon-Gipson Lumber Co. same, \$2000, N. P. Ry. to Joseph G. McKay et

al, SW 4-20-11, \$1320. Same to Christian Mueller Land & Timber Co., NE SE 28-20-11. Ferrell to Bend Timber Co. 8 % 8W 11: W % NW 14-17-11.

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NOTICE OF CONTEST.

Department of the interior, United States Laid Office, Lakeview, Oregon, May 13, 1914.

To the heirs of Lewis L. Martin, decensed, Contestee:

You are hereby notified that Charles F. Sturmer, who gives c-o C. S. Renson, Hend, Ore., as his post office address, did on April 22, 1914, file in this office his duly corroborated application to contest and secure the cancellation of Homestead Entry — Scrial No. 02775, made December 11 1969, for lots 3 and 4 and E 1/2 SW 1/4 Section 7; lots 1 and 2, E 1/2 NW 1/4 Section 18, Township 22 S., Range 23 E., Williamette Meridian, and as grounds for his contest he alleges that said Lewis L. Martin died about I years ago, leaving no heirs so far as known to this affiant; that the entryman never established residence upon said tract nor did he or his heirs ever maintain residence thereon or cultivate the same and said entryman and his heirs have wholly aban doned said tract and said entry for more than one year last past,

You are, therefore, further notified that the said silegations will be taken by this office as having confessed by you, and your said entry will be canceled thereunder without your further right to be heard therein, either before this office or on appeal, if you fail to file in this offiwithin twenty days after the FOURTH publication of this notice, as shown below, your answer, under oath, specifically meeting and responding to these allegations of con-test or if you fall within that time to flie in this office due proof that you have served a copy of your answer on the said contestant either in person or by registered mail. If this service is made by the delivery of a copy of your answer to the contestant in person, proof of such service must be either the said contestant's written acknowledgment of his receipt of the copy, showing the date of its receipt, the affidavit of the person whom delivered: if made by register-ed mail, proof of such service must consist of the affidavit of the person by whom the copy was mailed stating when and the postoffice to which it was mailed, and this affidavit must be accompanied by the postmaster's receipt for the letter. You should state in your answer.

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JAS, P. BURGESS. Register.

Date of first publication May 27, Date of second publication June 3,

Date of third publication June 10, 1914 Date of fourth publication June 17 1914.

NOTICE OF CONTEST.

Department of the Interior United States Land Office, The Dalles, Oregon, May 26, 1914.

To Asahel L. Parker, of Pendleton Oregon, Contestee:

You are hereby notified that Jul- Oregon. ius O. Sandberg, who gives Bend, Oregon, c-o box 147, as his post office address, did on April 17, 1914, file in this office his duly corroborated application to contest and secure the cancellation of your homestead, en-try No. —, Serial No. 08918, made May 15, 1911, for E 1/2 Section 29 Township 20 S., Range 17 E. W. Merldian, and as grounds for his contest he alleges that said Asu-has failed to cultivate said tract or any part thereof; that he has aban-doned said tract for upwards of six months last past and that such failure and abcudonment was not due to his employment in the army, navy or marine corps of the U.S. in time of

war or otherwise, You are, therefore, further notified that the said allegations will be taken by this office as having been confessed by you, and your said en-try will be conceled therounder without your further right to be heard therein, either before this office or on appeal, if you fail to file in this office within twenty days after the FOURTH publication of this notice, as shown below, your answer, under oath, specifically meeting and re-aponding to these allegations of contest, or if you fall within that time to file in this office due proof that you have served a copy of your an-awer on the said contestant either in person or by registered mail. If this service is made by the delivery of a of your answer to the contestant in person, proof of such service must be either the said contestant's written acknowledgement of his receipt of the copy, showing the date of its receipt, or the affidavit of the whom the delivery was made stating when and where the istered mail, proof of such service must consist of the affidavit of the person by whom the copy was mailed stating when and the post office to which it was mailed, and this affidavit must be accompanied by the

postmaster's receipt for the letter. You should state in your answer the name of the post office to which you desire future notices to be sent

H. FRANK WOODCOCK, Register. Date of first publication June 10, Date of second publication June 17, 1914 Date of third publication June 24,

1514. Date of fourth publication July 1.

NOTICE FOR PUBLICATION. Department of the Interior, U. S.

Land Office at The Dalles, Oregon,

May 5th, 1914. Notice is hereby given that Mildred Biladeau, assignee of Tokil Swanson, deceased, of Bend, Oregon, who on June 6th, 1911, made Desert Land Entry No. 09080, for lots 1-2 and E ½ NW ¼, Section 30, Tewnship 18 South, Range 12 East, Willamette Meridian, has filed notice of intention to make finas desert land proof, to establish claim to the land above described, before H. C. Ellis, U. S. Commissioner, at Bend, Oregon, on

Claimant names as witnesses: Jacob F. Thomas, Henry Starrs, Ralph A. Dunn, Earl J. Dunn, all of Hend.

the 9th day of July, 1914.

H. FRANK WOODCOCK, Register

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