

FRUIT and FARM

SUDAN GRASS

By F. C. Reimer, Southern Oregon Experiment Station, Talent, Oregon.

Sudan grass is unquestionably the greatest hay plant that has been introduced into the United States since the introduction of alfalfa.

This plant promises to become a leading factor in the agriculture of the Pacific Coast, and in the southern states. In many sections and on many soils it will probably become the leading hay crop.

History—Sudan grass is a native of Sudan, Egypt, where it has long been growing under such adverse climatic conditions that it has developed remarkable drought-resisting characteristics. A small quantity of seed of this plant was introduced into the United States in 1909, by the U. S. department of agriculture. This seed was planted in an experimental way in the dry region of western Texas, where the plants made such a remarkable growth that it attracted unusual attention. Since that time it has been tried in various sections of the United States, and has given very satisfactory results in all except the most northern states.

Characteristics of Sudan Grass—Sudan grass belongs to the sorghum family. As it is not a legume it cannot gather nitrogen from the air, as do alfalfa, clover, vetches, and peas. It is an annual, hence must be re-seeded every year. It is quite tender and is readily killed by heavy frosts. The plant stools very freely, a single plant often producing 100 or more stems. Under very favorable conditions it will grow to a height of ten feet.

It can be cut repeatedly without killing the plant. In the southern states it is usually cut three or four times during the season, while in this valley, owing to our short seasons, we have been able to get only two cuttings; that is, where the first cutting is not made until the plant is in bloom. Where the plants are cut as soon as they are three or four feet high, three cuttings can be obtained here.

Chemical analysis shows that Sudan grass ranks high in food value. While it is not equal in composition to good alfalfa hay it is fully equal to the best timothy hay. Feeding

experiments conducted at the Texas Experimental Station have demonstrated that it is excellent for horses, cows and steers.

Sudan Grass in This Valley—During the past summer the Southern Oregon Experimental Station conducted extensive experiments with Sudan grass, both at the station farm and in co-operation with a number of farmers throughout the valley. The results were extremely satisfactory. Two cuttings were obtained from seed sown on May 5. The first cutting on the unirrigated plot averaged from five to six feet high and yielded at the rate of 4773 pounds per acre; while the irrigated plot averaged from seven to eight feet high, and produced at the rate of 7705 pounds per acre. Many of the plants on the irrigated plot were over nine feet high. The second cutting, just before frost, averaged three feet high and produced approximately one and one-half tons per acre. This hay was relished by horses and cows.

Another planting was made on July 19, on land from which a crop of wheat hay had just been removed. This was grown on especially good soil, the seed was planted in rows, and the land was thoroughly irrigated. The crop was cut October 2, when it was seven and one-half feet high, and yielded approximately three and one-half tons per acre.

Cultural Directions—The seed should not be sown until the ground is warm and danger from heavy frosts is past. The later part of April or the first of May is sufficiently early for the first planting. Where irrigation is not practiced early planting will give the best results. Where irrigation is available the seeds can be planted any time between the first of May and the latter part of July. The late planting, of course, will give only one cutting.

Sudan grass can be grown in rows 3 feet apart, which will require from four to five pounds of seed per acre, or it may be sown broadcast or drilled in with a regular grain drill, which would require 15 to 25 pounds per acre. Since each plant stools enormously only a small quantity of seed is required to sow an acre. Two years ago the seed sold for \$1.00 per pound. It can now be had for about 15 cents per pound. This plant is a good seed producer in this valley, and one man produced a large quantity of seed near Brownsboro last year.

Sudan grass is of great value in this valley because of its great drought resisting qualities. It can be grown on many soils which are too dry during the summer months for the production of other forage plants. It will be of special value on shallow soils which are inclined to be droughty. On dry soils, and where irrigation is not practiced, the seed can be sown about the first of May. Where irrigation is practiced a crop of grain and vetch hay may be grown during the fall, winter and spring months, and a crop of Sudan grass during the summer months. While Sudan grass is one of the greatest drought resistors known our results show that it will yield con-

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siderably more with irrigation than without.

Conclusion

In conclusion I should like to advise every farmer in this valley to plant at least a small quantity of Sudan grass this year. It will prove a revelation to most farmers. The seed can be purchased from local seed dealers.

It is well known that alfalfa is king of all forage plants on deep, fertile, well-drained, moist soils. On soils which will produce abundant crops of alfalfa, this crop is preferred to Sudan grass. Where conditions are not favorable for abundant crops of alfalfa, Sudan grass will prove the most satisfactory forage crop to be grown during the summer months.

Don'ts for Local Tennis Players

Tennis enthusiasts are getting out the old racquets and heading for the private tennis courts and the public courts in Lithia Park. For the benefit of the ignorant the following don'ts for tennis players, as compiled by the tennis expert of the Sacramento Bee, are reproduced:

- Don't go into a game without an alibi.
- Don't throw your racquet unless the other fellow can't fight.
- Don't trust anyone on the other courts; they make a business of stealing balls.
- Don't swear unless you can make it sound like a nice, genteel pirate or a printer that has just pried a galley of type.
- Don't hit the ball out of bounds in singles and then say you thought you were playing doubles.
- Don't let a pretty girl beat you.
- Don't run after the ball when you have sliced a fungo half a block over the back fence.
- Don't admit the ball is in bounds when there is any possible chance of bouncing the other guy.
- Don't hesitate to complain about the way they let the sun shine in your eyes.
- Don't change your shoes when there are "ladies" around unless you are absolutely certain as to the character of your socks.
- Don't hesitate to tell about how well you used to play.
- Don't have any "bones" about claiming you meant it when the ball hits the top of the net and just rolls over the other side to score for you.
- Don't tell the truth when you have the court and someone wants to know what the game score is.
- Don't see your neighbor's ball when it rolls in your territory, or you'll have to exert yourself to retrieve it for him.
- Don't hesitate to yell the game score as loud as you can when you're ahead.

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Announcements

(Paid Advertisement.)

District Attorney

THIS IS TO CERTIFY that I expect to be a candidate for nomination for the office of Prosecuting Attorney on the Republican ticket at the primary election next ensuing to be held in and for Jackson county, Oregon.

It will be remembered that I held that office when the district embraced the counties of Josephine, Jackson, Klamath and Lake. I refer to that record.
C. B. WATSON.

District Attorney.

I hereby announce that I have filed my declaration of intention to become a candidate for the Republican nomination for the office of District Attorney for Jackson county, Oregon, subject to the decision of the Republican party in the primary election to be held May 19, 1916.
G. M. ROBERTS.

DISTRICT ATTORNEY—I am a candidate for the Republican nomination for District Attorney.
JOHN H. CARKIN.

DISTRICT ATTORNEY—I hereby announce that I have filed my declaration of intention, and that I am a candidate for the Democratic nomination for the office of District Attorney, subject to the May primaries. If I am nominated and elected to this office, I promise not to forget the fact that I am a public servant, and that I will to the best of my ability administer the affairs of the office, impartially, honestly and without fear or favor.
NEWTON W. BORDEN.

School Superintendent

COUNTY SCHOOL SUPERINTENDENT—I hereby announce my candidacy on the Republican ticket for the office of County School Superintendent for Jackson County, Oregon, subject to the will of the Republican party at the primary election May 19, 1916. I stand for practical school efficiency, personal supervision of schools and elimination of county school supervisors.
(Signed) FRANCIS C. SMITH.

SCHOOL SUPERINTENDENT—I hereby announce that I have filed my declaration of intentions, and that I am a candidate for the Republican nomination for the office of County School Superintendent of Jackson county, subject to the primaries of May 19. If nominated and elected, I pledge myself to an honest, impartial and economic administration and will personally supervise our schools. I hold an Oregon Life Certificate, and having recently spent four sessions on preparatory work in both the University of Oregon and in the University of California in the study of modern education and supervision, and having served the county as Rural School Supervisor for two years, I feel competent to fill the office in a thoroughly satisfactory manner and hereby solicit the support of every true friend of education.
G. W. AGER.

FOR COUNTY SCHOOL SUPERINTENDENT—I am a candidate for the Republican nomination for County School Superintendent. I stand for: A continuance of progressive policies in education, economy consistent with efficiency, equal educational advantages for the boys and girls on the farms with those in the cities and towns.

If nominated and elected I will in the future, as in the past, give my full time and best efforts to the supervision of the schools and administration of the duties of the office. During my incumbency I have not confined myself strictly to the routine duties of the office, but have taken a broader view of the mission of the County School Superintendent. In addition to my efforts to raise the standard of teaching and improve the physical conditions at school, I have labored to promote the welfare of the boys and girls through industrial clubs, school fairs, school credits for home work, parent-teacher circles, spelling and arithmetic contests, and other activities. I feel that my work has been regarded with favor, and in order to continue it I am asking for re-election.
J. PERCY WELLS.

COUNTY SCHOOL SUPERINTENDENT—To the Voters: I am Republican candidate for County School Superintendent at the primary election May 19, 1916. I am a Normal graduate, hold an Oregon State Life Diploma, and have taught fifteen years in Jackson county. I have been a principal in the Medford schools the past four years. My standing and ability are before you to investigate. I am for supervision of the schools by the superintendent, and for economy in the County Superintendent's office and every place where it does not retard the efficiency of the schools.

I am in favor of progressive education; that is, education that prepares the boy or girl for life. I am for the uplift of humanity; therefore, all organizations that stand for the good of humanity shall have my support. I am for all having a square deal and an equal chance for an education. If nominated and elected I will do everything in my power to make the schools of Jackson county the best in the state.
A. J. HANBY.

Assessor

FOR ASSESSOR—I hereby announce my candidacy for County Assessor, subject to the Republican primaries May 19, 1916. I pledge myself to an honest, efficient, impartial and economical discharge of the duties of the office and pro-

pose to make all assessments upon the basis of the true actual value of the property and not upon any inflated valuation.
GEORGE LAUNSPACH.

HEREWITH ANNOUNCE my candidacy for County Assessor, subject to the decision of the Republican party at the primary election to be held May 19, 1916. If elected I pledge myself to make a just and equitable assessment and administer the affairs of the office in a businesslike manner.
J. B. COLEMAN.

COUNTY ASSESSOR—I have filed my declaration to become a candidate for County Assessor of Jackson county, subject to the will of the Republican party, at the primary election to be held May 19, 1916. I will appreciate your investigation of my qualifications and your support at the primary election.
E. M. WILSON.

FOR COUNTY ASSESSOR—I hereby announce that I am a candidate for County Assessor for Jackson county, Oregon, on the Republican ticket, subject to the primaries to be held May 19, 1916. My platform, ECONOMY, EQUALITY and EFFICIENCY.
J. C. HERRING.

W. W. TRUAX, candidate for County Assessor at Republican primary election, May 19, 1916.

Three years' experience clerical work, making up assessment rolls and extending tax rolls, townships 29 and 30 north, range 4 west, state of Michigan.

Three years assessor and member of County Board of Supervisors, Osego county, Michigan.

Six years deputy assessor in Jackson county, Oregon.

If elected, practical experience, common sense and business judgment will be exercised in making assessments.

Fictitious boom valuations will not be permitted. The greatest possible accuracy and economy in field and office work will be rigidly enforced. Fair and courteous treatment extended to all taxpayers.

Integrity of purpose the governing factor.
Your support solicited.
W. W. TRUAX.

Circuit Judge

FOR CIRCUIT JUDGE—I have filed declaration of candidacy for the office of Circuit Judge. I will sincerely appreciate an expression of approval by the voters, of my administration of the office during the past six years.

FRANK M. CALKINS.

Treasurer

FOR COUNTY TREASURER—I hereby announce that I am a candidate for the nomination of County Treasurer for Jackson county, Oregon, on the Republican ticket, to be voted for at the primary election to be held May 19, 1916. I formerly held the office of County Treasurer, and believe I gave general satisfaction to the public. During the time I was County Treasurer the county employed expert accountants to expert the county officers' books, and said experts complimented my work very highly as a public official. If nominated and elected I shall endeavor to conduct the affairs of the office in an honest, efficient and businesslike manner.
JAS. M. CRONEMILLER.

COUNTY TREASURER—I hereby announce that I have filed my declaration of intention to become a candidate for the Republican nomination for the office of County Treasurer, to be voted on in the coming primaries. If I am nominated and elected will conduct the office in an efficient and businesslike manner.
ROY L. MAULE.

COUNTY TREASURER—Deputy County Treasurer Myrtle W. Blakeley announces her candidacy for the office of County Treasurer. I hereby announce my candidacy on the Republican ticket for the office of County Treasurer, to be voted on at the coming primaries. I have held the position as deputy in this office for the past year and am confident that I can fulfill the duties connected therewith.

I served two years as Deputy County Recorder before taking the position as Deputy County Treasurer; I have also had experience as accountant for several corporations, such as the Medford Concrete Construction Company and Medford Ice and Storage Company, before taking up county work, and will say that my past record is open for inspection to the voters of Jackson county.

If nominated and elected I will run the office without the expense of a deputy and continue to serve the public just as efficiently in the future as I have in the past.
MYRTLE W. BLAKELEY.

What do you want? A Tidings want ad tells it to more than two thousand people in a day. Twenty five cents does the business.

Sheriff

I HAVE HERETOFORE formally announced my candidacy for the nomination for Sheriff on the Republican ticket to be voted upon at the coming primary election May 19, 1916.

I have held the position of Deputy Sheriff during the past four years. It is unanimously conceded that a marked improvement has been made in all departments of the Sheriff's office during the incumbency of the present Sheriff. The records in the office at the beginning of the present administration were considered the worst in the state. They are now considered equal to any and better than most.

The work of tax collection has been systematized so that quicker and better service is now being rendered, and taxes collected at a much less cost than heretofore.

I am fully conversant with the duties and needs of the office for which I aspire.

If I am nominated and elected I pledge myself:

- 1st—To maintain the office in its present efficient condition.
- 2nd—To endeavor to further improve the service to taxpayers and to minimize the cost thereof.
- 3rd—To impartially perform all duties and enforce all laws.

E. W. (Curly) WILSON.

SHERIFF—I am a candidate for the nomination of Sheriff of Jackson county, on the Republican ticket, subject to the primary, May 19.

I have lived in Jackson county twelve years, made the race for the nomination for Sheriff two years ago and received a splendid vote despite the unusual conditions I had to oppose, and would appreciate your support this time.

If elected I will enforce all laws and pledge myself to an economical, impartial and conservative administration.

A. W. WALKER.

I AM A CANDIDATE for the nomination of Sheriff on the Republican ticket to be voted for at the primaries May 19, 1916. If nominated and elected I will enforce the law and give the public an honest, impartial and efficient administration.

Thirty-seven years in Jackson county. HARRY N. LOFLAND.

FOR SHERIFF—I hereby announce my candidacy for the Republican nomination for Sheriff, to be voted on at the coming primaries, May 19, 1916.

I feel that I need no introduction to the public, having been a resident of Jackson county for 26 years.

I pledge myself, if elected, to give an impartial, economical and conservative administration of this important office.

I have endeavored to serve the public faithfully in the past and agree, if elected, to strictly and impartially enforce all laws. Having a very large experience in the matters of taxation and knowing Jackson county thoroughly, I pledge myself to conduct the tax-collecting branch of the office in such a manner as to serve the taxpayers honestly, promptly and efficiently.
W. T. GRIEVE.

County Clerk

FOR COUNTY CLERK. G. A. Gardner is Republican Candidate for County Clerk.

I hereby announce my candidacy for the office of County Clerk, and if nominated and elected will continue to give my entire time and attention to the duties thereof, conduct the office according to law and give an efficient, economical and businesslike administration.
G. A. GARDNER.

COUNTY CLERK—I hereby announce that I have filed my declaration of intention to become a candidate for the Republican nomination for the office of County Clerk for Jackson county, Oregon, subject to the decision of the Republican party in the primary election to be held May 19, 1916.
(Little) JOE H. WILSON.

HEREBY ANNOUNCE that I have filed my declaration of intention to become a candidate for the Republican nomination for the office of County Clerk for Jackson county, subject to the decision of the Republican party at the primary election to be held May 19, 1916.
A. N. HILDEBRAND.

For Representative

FOR REPRESENTATIVE. I hereby announce my candidacy for the nomination for Representative from Jackson county on the Republican ticket, subject to the primary on May 19. I pledge myself for economy and a square deal for all.
BENTON BOWERS.

FOR REPRESENTATIVE—I hereby announce that I have filed my declaration to become a candidate for the republican nomination for the office of representative, subject to the decision of the republican party at the coming primary election.
C. M. THOMAS.

FOR REPRESENTATIVE—I am a Republican candidate for Representative in the State Legislature.
BENJ. C. SHELDON.

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