Before the seeds are sowed, the

can eat what is left in the field.

Clovers

Clover may be planted with bar-

gume. It usually does best when

seeded alone, although rye or

The best time to cut clover hay

add nitrogen to the soil and en-

rich it, so that other crops can be

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SALEM DISTRICT INDUSTRIES

EIGHTH CONSECUTIVE YEAR

THE DAILY STATESMAN dedicates two or more pages each week in the interests of one of the fifty-two to a hundred basic industries of the Salem district. Letters and articles from people with vision are solicited. This is your page. Help make Salem grow.

BOYS AND GIRLS IN THE PUBLIC SCHOOLS KNOW USES OF LEGUMES

Eleven weeks ago it was announced that The Statesman would pay \$5 a week, till further notice, to the high school or grade school boy or girl in Marion or Polk county who would submit the best article on the current Slogan subject. The articles are to be in the office (or mailed) by noon of Tuesday of the week of the Slogan subject. All articles submitted to belong to The Statesman. The editor to judge as to the best, in deciding who shall receive the \$5. The idea is to furnish an opportunity to make the rising generation acquainted with the many and great advantages of the district in which they are to take active part in the future. They are to be the leaders as they grow into manhood and womanhood. There was one contestant the first week, 7 the second, and 5, 7, 11, 3, 4, 5, 3 and 7 respectively the following weeks. There are eight this week. The \$5 goes to Frances Klampe, and Helen Burk and Deena Hart are to have a ticket to a moving picture show-any moving picture show selected, at the Oregon, Elsinore or Capitol. There will likely be surprise prizes most weeks. One other thing. The Statesman wents the photograph of the first prize winner each week. If the winner has no photo, please go to the Kennel-Ellis studio, 429 Oregon building, Salem, and have one taken, at the expense of The Statesman. When a few photos are in hand, cuts will be made of the first prize winners, to be printed in The Statesman; and perhaps in other papers. The boys and girls will please write on only one side of the paper. The following are the articles for this week:

any farmer who gives them a fair

8th Grade Labish Center School,

Farming, in a broad way, to be

successful must be built on le-

gumes. Every farmer should be

crops successfully the soil must

be fertile and to be fertile it must

contain nitrogen. This is how le-

gumes are valuable; they belong

to a family of plants on whose

roots are found little wart like tu-

bercles. These tubercles contain

nitrogen, which is gathered and

stored in this way; air filled with

atmospheric nitrogen circulates

through the soil. As it passes

through the bacteria composing

the tubercles take out the nitro-

gen and hold it as a food for the

plant itself and other plants com-

Great quantities of nitrogen can

thus be stored in the soil and since

nearly one-half of the cost of com-

mercial fertilizer comes from ni-

trogen it is of advantage to the

farmer to grow alfalfa, clover,

cow peas, soy beans, vetch, or oth-

er leguminous crops to do away

with the buying of costly nitro-

Excellent Stock Feed

In addition to being nature's

soil improvers and highly valuable

in this way, legumes are rich in

protein and are excellent feed for

sheep, cattle, swine, horses, etc.

and kept until needed, or dried

Clovers, alsike, white and red,

require much the same treatment.

not advisable to pasture a clover

Soy beans and cow peas both

need warm soil, and consequently

Vetches are excellent land reno-

vaters and flourish best. They are

used considerably for forage, but

These are some of the principle

legumes. Salem territory could

1926 lumber cut of Oregon and

-Helen Burk.

hardly grow too many, because

Ways.

be planted as pasture crops.

They may be made into silage

Salem, Ore., Rt. 9, Box 79,

April 12, 1927.

Editor Statesman:

ing after.

gen.

-Frances Klampe.

PROFITABLE CROPS ONLY ON GOOD SOIL

Editor Statesman:

Legume may not be a very common word but it is the name of a common and important crop of plants. This plant group gets its name from the peculiar pod which forms the seed case for these plants. The family includes wide variety, such as clover, alfalfa, lentils, vetches, cow beans, Boy beans, and locust trees.

Just as our bodies need food a legume farmer, for to grow containing the important element. nitrogen, to build up their tissues, so these important plants also need it. Under certain conditions this group has a special way in which it takes the free nitrogen from the air. On the plant roots are nodules, which are the homes of a particular kind of bacteria. No other plants can thus take free nitrogen from the air.

There are several distinguishing features of the legume family. The blossoms are one sided and grow in clusters, while seeds of two parts, called dicotyledons, are formed in a pod. But the little, wart like lumps on the roots, called tubercles or nodules, are perhaps the most prominent; for it is in these that the nitrogen compounds are formed, which not only enable the plant to grow, but leaves the soil enriched when the plant is removed.

The blossoms of certain leguminous plants are very attractive. The wisteria, bluebonnet, sweet pea, and the locust and redbud, trees are noted for their ornamental beauty.

Beneficial Uses

Peas, beans and lentils are extensively used for food, having and fed as hay. They may also gen from the air are called lehigh protein value. Alfalfa, clover and vetch are among the leading hay crops. Alfalfa can be grown successfully in this section, early spring. When the soil is teria which store the atmospheric and more of it should be raised, as it is a very profitable hay crop. this acidity is corrected by the ap-The farmer may expect from five plication of lime. to seven tons of cured hay each

season from an acre. Legumes are also useful as Any soil not too loose is satisfacgreen manure. The crop is plow- tory. It is sown usually in rotaed under in order that it may de- tion with some other crops, such cay and build up the soil. The as corn and oats. It is practical to maturity before they are harnitrogen is left in the soil in a to sow clover in the late summer form which other kinds of crops and early autumn months. It is

can use. One of the most outstanding field, as the tramping of the soil uses of the legumes, however, is by stock makes it too compact to aid the farmer in rotation of and heavy. crops. There is no need for soil to become worn out, when a systematic rotation of grain and leare raised more in the south than guminous crops may be used to here. They may furnish grazing keep it in good condition. More for cattle, sheep or hogs, or may profitable results in farming are be dried for hay. obtained as a result of such a

practice. The farmers of the Salem district, or any other district, for that the hay is as nutritious as clover matter, may expect to raise prof- and relished much more. itable crops only to the extent that they keep the soil in condition. For this purpose fertilizers must he used. As nitrogen is one of the they benefit the farmer in so many most expensive elements in purchased fertilizers, it is evident that frequent use of leguminous 1620 Lee St., Salem, Ore. crops is an economical way of sup- April 12, 1927. plying the necessary nitrogen to

Furthermore, the legumes are Washington shows increase of profitable crops in themselves, as about nine per cent over 1925.

Dates of Slogans in Daily Statesman (In Weekly Statesman)

THIS WEEK'S SLOGAN

DO YOU KNOW that Salem is the center of a district in

which the legumes do wonderfully well; that no country

can grow better red or sweet clover, or better vetches or

field peas; that alfalfa does well here; that the orchard-

ist may grow here the finest of cover crops in legumes;

that the dairyman may grow the best legumes for his

uses: that the bee keeper may raise sweet clover and

other legumes for bee pasture to his heart's contentthat, in short, the farmer of this district now has the

knowledge in his noodle of the great value of the nodules

on the rootlets of the legumes; and that he is using this

knowledge for his own good and the good of this dis-

trict in general; and that we have a very healthy and

n lasto Till T OFT vested, the lower leaves and ten-

scil as humus.

initely known.

ble matter that nature uses to of crops: the planting of different

with it.

check the greed of man. Other- plants that will restore food ma-

most hopeful and beneficial boom in legumes?

(With a few possible changes) | Drug Garden, May 6 Loganberries, October 7, 1926 Sugar Bects, Sorghum, Etc., Prunes, October 14 Dairying, October 21 Flax, October 28 Filberts, November 4 Walnuts, November 11 Strawberries, November 18 Apples, November 25 Raspberries, December 2 Mint, December 9 Beans, Etc., December 16 Blackberries, December 28 Cherries, December 30 Pears, January 6, 1927 Gooseberries, January 18 Corn, January 20 Celery, January 27 Spinach, Etc., February & Onions, Etc., February 10 Potatoes, Etc., February 17. Bees, February 24 Poultry and Pet Stock, Mar. 3 City Beautiful, Etc., March 10 Great Cows, March 17 Paved Highways, March 24 Head Lettuce, March 81 Silos, Etc., April 7 Legumes, April 14

Asparagus, Etc., April 21

Many a piece of farm land that

was once very valuable lies uncul-

tivated now. The land is useless

because it is worn out. Year af-

ter year, crops have been planted

that took plant food from the soil,

and the farmers replaced nothing.

this valuable food is replaced. Ro-

valuable plant foods, nitrogen and

Humus is decomposed vegeta-

wise man would soon starve to

death if he was not protected from

essary elements of plant life, is

the most-unstable and costly. The

soil supply of nitrogen is light be-

cause nitrogen has escaped in

vast amounts during the past ages.

Nitrogen is in the air, but few

Plants that can get nitro-

plants can collect it from there.

It must be in the soil where it is

easily collected by the root ten-

gumes. These embrace the clover,

ules on the feeding roots of the

When a field is cut over, the

roots decay and leave in the soil

the bacteria and nitrogen that

If clovers are allowed to grow

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Alfalfa should be sown in good, alfalfa, vetches, peas, beans and teria, blue bonnet, locust, and red

Nitrogen, one of the most nec-

humus, are absent.

his own greed.

mellow soil, either in early fall or others of less value. The bac- bud tree.

legume plants.

they have gathered.

acid alfalfa will not grow unless nitrogen are formed in tiny mod-

By the planting of legume crops Editor Statesman:

Grapes, Etc., April 28

May 13, 1927 Water Powers, May 20 Mining, June 3 Land, Irrigation, Etc., June 10 Floriculture, June 17

Hops, Cabbage, Etc., June 24

Wholesaling and Jobbing, July 1 Cucumbers, Etc., July 8 Goats, July 22 Schools, Etc., July 29 Sheep, Aug. 5 Seeds, August 12 National Advertising, Aug. 19 Livestock, August 26 Grain and Grain Products,

September 2 Manufacturing, September 9 Automotive Industries, Sept. 16 Woodworking, Etc., Sept. 23 Paper Mills, September 30

(Back copies of the Thursday edition of The Daily Oregon Statesman are on hand. They are for sale at 10 cents each, mailed to any address. Current copies 5 cents.)

drils decompose and return to the

1192 Shipping Street, Salem, Ore.

LEGUMES FOR A

April 12, 1927, Sophomere, S. H.

When did rotation of crops be-

We mean when we say rotation

terial to the ground. Some plants

which are needed for plant life.

should be scattered on or mixed

Leguminous plants restore all

The main leguminous plants are

alfalfa, peas, beans, lentils, wis-

Little things like warts are

found on the legume plants. These

Alfalfa can be grown upon

Air Painting

DONE WITH A

GUN

M. B. Sanderson

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are the food material, or germ so

the food material and can be all

-Deena Hart.

It is hard to get a good stand

of alfalfa in just two years, but soil should be fine and mellow. sowed in the spring or fall. In

Willamette valley. A large acre- good for sheep and cattle; they age should be planted. -Esther Cook.

THE IMPORTANCE

the second largest family of flow- follow cotton or corn. Common soil. ering plants, various members of red clover, which is the standard which are of great economic im- clover over most of the country. used for medicine, dyes, timber, sweet clover makes good clover.

esting power of getting nitrogen should be mowed in the morning. through small bacteria colonies on and raked in the afternoon, and their roots. The power of bring- left in the windrows to cure. ing nitrogen to the soil also makes | Vetch is good for hay. Cow peas many of the legumes valuable as and soy beans make good ensilage | Salem, Ore., April 11, 1927. green manure, and for cover crops and pasture for cows, hogs, and Keizer School. Age 16.

of leguminous plants known, Most of them, whether trees, shrubs, or them, whether trees, shrubs, or herbs, bear their seeds in pods or they are called. These tubercles legumes and from that comes are caused by bacteria or germs as their family name. The scientists they are sometimes called. These call this leguminosae. One large order in this family bears flowers on the roots of these plants. They which resembles butterflies. The common sweet pea belongs to that order. There are other legumes which bear irregular spreading petals and flowers; still others bear blossoms small and and reg-

The most common legume that gets lighter. It takes lots of we have, in the Willamette valley is the vetch, which is most suited farming of legumes it serves two and they are of great importance to this soil and climate. Alfalfa also thrives in the valley near the river bottoms, where the soil is open and porous. Cow peas are also grown in the valley on many of the farms. This species is also used for green manure to fertilize

The alfalfa is the strongest specles of legumes. It is a perennial plant and yields from three to tating crops helps worn out land, gin? It is accounted for clear four crops a year, and sometimes but even that is useless if the two back in the feudal system and fur- lasts as long as 20 years, but ther back than that it is not def- ought to be plowed when it gets weedy, and a cover crop planted in

-Donald Sademan. Salem, Ore., Rt. 6, Box 117B. April 12, 1927.

take all the nitrogen, phosphorus LEGUMES AND THE and petassium out of the soil Manure is used on the farms quite a bit. However, not every-USES OF THE CROP one can get manure. It does not really contain enough of these food plants, so other substances

The legumes are alfalfa, clovers, vetch, cowpeas, and soy used very well for different things. beans.

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This makes the soil very rich in ers are partial to alfalfa for three the fertilizer. food material. If potatoes are reasons: (1) It yields a heavy then planted there they will be crop of forage for hay. (2) Be- April 12, 1927. Brooks, Ore., Rt. very large and generally of an ing a legume it improves the soil. 1, box 21., Brooks School, eighth from the air by means of bacteria. even shape.

it could be used for grazing of In the south, the seed may be cattle or sheep. All these legumes can be raised the north, spring sowing is best. profusely and profitably in this Alfalfa is good for hay, it is also

1234 Court St., Salem, Or.,

Apr. 12, 1927.

OF THE LEGUMES

All have the strange and inter- is when it is in full bloom. It for the improvement of poor soils. sheep. These legumes have little,

· There are about 7,000 species knotty, wartlike, growths on the

poor soil.

Alfalfa will do well wherever the soil is rich, moist, deep, and

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plot of land for two or more years, underlaid by subsoil. Good farm- | (2) It enriches the soil and saves [used for medicines, dyes, wood as

-Arleta Sturgis (3) One seeding lasts a long time. grade.

LEGUMES ARE GOOD TO BUILD UP SOIL

The different kinds of clovers | Dear Editor:

will sometimes grow on hard or Leguminous plants are the secpoor soil, but they do far better ond largest family of flowering medicines, dyes, flowers, food, and if the soil is enriched and properly plants. They are sometimes callprepared before the seed is sowed. ed the pulse family.

Leguminous plants should be planted ever so often where the soil is getting run down, because Crimson clover is a winter lefrom the air by means of bacteria leguminous plants take nitrogen some other grain often seems help- which live in wart like growth ful to it. This kind of clover is on the roots and put it in the soil, The legume family of plants, is an excellent crop with which to or in other words it builds up the

Some of these leguminous plants are called alfalfa, clover, portance in all parts of the world. is usually seeded with wheat or peas and vetch. Alfalfa is a pay-Some, such as peas and beans, are rye. Japan clover and the white ing crop, and besides it builds up valued as food plants. Others are clover make good pastures, also the soil at the same time, and clover does the same.

Vetch, when planted with other grains, puts nitrogen in the soil, while its companion uses it. That way the soil has neither gained nor lost its value in nitrogen. -Raymond Claggett.

ARE PROFITABLE

Editor Statesman:

The leguminous plants or pulse order. There are other legumes from the air. By so doing they family include acacia, alfalfa, burnum, licorice, locust, lupine, grown. In fields where wheat is peanuts, sensitive plant, sweet raised year after year the crop pea, tamarind, vetch and wistaria. The legumes are the second nitrogen for wheat, so by rotation largest flowering family of plants, purposes. (1) Hay and pasture, in all parts of the world. Some are food plants while others are

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alem Wicker Furniture Manufacturing Co. —We Sell Direct— Semine Esttan Esed Quality Furniture Repairing, Refinishing, Upholsterin, 2218 State St., Salem, Oregon ornament.

All have a strange and interest. ing power of taking nitrogen which live in wart like growths on their roots. This power of bringing nitrogen to the soil makes many of the legumes valuable as fertilizer and cover crops for improvement of poor soils.

There are about 7000 species of leguminous plants, and whether trees, shrubs or herbs bear their seeds in pods (or legumes), hence the family name.

The legumes give us not only feed crops, etc., but improve the soil as they grow, so they are valuable crops in many ways. -Jean Lucien Graham.

Salem, Or., P. Q. Box 209, Apr. 11, 1927.

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