### Lime-Sulphur---Its Use as a Fungicide and an Insecticide

-By-Prof. P. J. O'Gara, Pathologist. Written especially for the Medford Mail Tribune.

(Copyright, 1911, by Medford Printing Company.)

the lime-sulphur solution has been

washed out. The black muck so pre-

pared should be diluted up to 100

gallons for spraying. This spray, it is

o be understood, is to be used while

TENTH INSTALLMENT. The Iron Sulphide Spray.

The iron sulphide spray, which is a recent development in the control of anole mildew and other mildews, is, the trees are in full leaf, hence the as its name indicates, a compound are taken in washing out the limeof sulphur and iron. As has been sulphur solution which has been in stated before, when commercial lime- excess. Good results may be obtainsulphur solution is added to a solu- ad by using this spray at half tion of iron sulphate (FeSO4), or strength; and since tobacco extract copperas, as it is commonly called, or lead arsenate may have to be used the black ferrous sulphide is precipi- at the same time, they may be added tated, and since lime-sulphur solu- to it without fear of injurious eftion is composed chiefly of polysul- fects from the combination. phides of calcium, there is, there- If apple trees have been badly milfore, as a result of the combination. Lewed during the previous year, an excess of sulphur, which is thrown which may be seen by noting the pe- at the family home at 518 King the cold winds of winter, deep, ferdown in the reation. Both the free culiar stubby, whitish terminal street, He was 79 years old, sulphur and the iron sulphide are in growths and the unhealthy appeara very finely divided flocculent form, unce of the fruit spurs, it may be and the precipitated sulphur undoubt- necessary to use the iron sulphide edly adds much to the fungicidal spray in combination with the regular lime-sulphur solution in the dor-

If the stock lime-sulphur solution mant spray, or without it, just be has a concentration of 32 degrees fore the buds open in the spring. In Beaume (specific gravity 1.267), it this case, no washing will be neceswill require about 0.232 gallons to sary and the spray may be made up precipitate one pound of pure iron as follows: Partly fill a 100-gallon sulphate. In round numbers, and to tank and add the regular amount of insure a slight excess of the lime-lime-sulphur solution for the spring sulphur solution, we may use a quart spray for scale, woolly aphis and of 32 degree Beaume test lime-sul- green apple aphis, and to this add phur solution for each pound of iron 15 quarts more of commercial limesulphate to be precipitated. Of sulphur solution. Then add 15 course, if the density of the lime-sul- pounds of dissolved fron sulphate phur solution is lower than 32 de- (copperas) and fill up to 100 gallons grees Beaume, a slightly greater stirring the mixture thoroughly. For quantity of lime-sulphur will have to the scale, and other insects mentionbe used; and if the test runs higher ed above, the amount of concentratthan 32 degrees Beaume, a smaller ed lime-sulphur to be quantity of the lime-sulphur solution should be such as to give a density will be necessary. From the table to the dilution of about 4.5 degrees comparing the Beaume and equiva- Beaume, or about 1.030 specific gravlent specific gravities, one may read- ity. This should be calculated before fly calculate the amount of lime-sul- adding the copperas and extra limephur solution to use when the test sulphur, on the basis of 10. gallons is above or below 32 degrees, total mixture. This matter of scale

To prepare one hundred gallons of spraying will be considered later. spray, which is to be used on foliage. The washed iron sulphide spray as proceed as follows: Use a barrel first given should be applied during holding about 50 gallons and fill it the growing season, the first appliabout three-fourths full of water, cation using this form of the iron Dissolve in it 10 pounds of iron sul- sulphide spray being made with the phate (copperas) by suspending it in first codling moth spray; that is, just a sack just as for dissolving blue- after the petals have fallen or before stone in making up the Bordeaux the calyces of the apple blossoms dissolved, add 10 quarts of 32 de- lead arsenate may be added to the grees Beaume test lime-sulphur solu- iron sulphide spray without any intion, stirring constantly. If 32 de- jurious effect. It might be a good grees Beaume lime-sulphur is not at plan to advise only half strength of hand, then calculate the amount nec- iron sulphide spray, since a little density. The reaction takes place im- precipitate enough might result in red and allowed to stand for 15 to change from black to a reddishamount of lime-sulphur solution is rainfall, will remain well on the to insure that all the iron sulphates trees. will be precipitated. After standing The Iron sulphide spray, it is to be about 15 hours, the iron sulphide, understood, is a mildew spray, not free sulphur and other compounds only for apples, but for other plants. which are formed in the reaction, will it is an excellent spray for treating settle to the bottom, forming a thick, roses for mildew. In the Rogue black muck. The clear supernatant River valley, some very interesting liquid should have a slight yellow work last year in controlling apple color, indicating that a slight excess mildew showed that a single spraying of lime-sulphur was used, and that, just before the buds opened controltherefore, all the iron sulphate is led the mildew perfectly. The first precipitated. The supernatant liquid orchard to use this new spray was should be drawn off and thrown the Burrell orchard, which is under away, and the barrel again filled the direction of Superintendent with water. The precipitate should Rolfe. At this time, Mr. Rolfe states be well stirred and then allowed to that the trees are in excellent condistand and settle. This process is tion, but that he will apply the iron termed "washing." Repeat this wash- sulphide spray again this year in oring process until the water is no long- der to keep the mildew under coner colored yellow, indicating that allitrol.

business directory of every city, town Damon Judge and clerk. and village in Oregon and Washing Chas, P. Talent judge and clerk, Wm. ton, and the names and addresses of Ulrich judge and clerk will lecture at the Natatorium at country merchants and professional Medford, March 7th, 8 o'clock, on men, lumbermen, etc., who are located adjacent to villages; also lists of government and county officers, com- as the places for holding said elec-Christian Womanhood," also the missioners of deeds, state boards. "Cause of the Downfall of Young statutory provisions, terms of courts. Drug store names of postmasters, postoffices, ex-Mr. Moseley is one of the best plat- press, telephone and telegraph ofform orators, Bible student and fices, justices of the peace, hotels, minister of the gospel. He has trav-daily and weekly newspapers, besides lecturing and preaching the gospel men. A descriptive sketch of each vided by the charter in the case of He was a student of the Great Brit- place is given, embracing various Bin school of arts. He has been mass items of interest, such as the loca- ed by the city council of the City of ter machinist of one of the largest tion, population, distances to differ. Medford, Oregon, on the 16th day of engine works in Pittsburg, Pa., hav- ent points, the most convenient ship- February, 1911, by the following ing full charge of setting on and oing stations, the products that are discharging and setting the scale of marketed, stage communication, man are, Emerick aye, Elfert aye, wages. He was superintendent of trade statistics, the nearest bank lo- and Millar ave one of the best engine works at cation, mineral interests, churches, Cleveland, O. Mr. Moseley was plat- schools, libraries and societies. An Attest form orator in the east in 1892-94 important feature is the classified and won the victory in some of the directory, giving every business argreat strikes. He also is a fine flute ranged under its special heading. and piccolo player and tenor singer, thus enabling subscribers to obtain

natronage. Price \$9.

Haskins for Health.

Seattle, Wash.

State Gazetteer and Business Directory.

Women of the Present Day.

Just issued for 1911-12, is the most complete work of the kind ever

eled through Europe, on the seas and much other information useful to all and hereby is ordered to give notice in many parts of the United States classes of business and professional of said election in the manner pro-

R L POLK & CO.

Merrick absent. Watt aye, Wort-

W. H. CANON,

ROBT. W. TELFER, City Recorder.

Notice is hereby given that a spe-He comes from the best of homes, at a glauce a list of all houses man- cial election will be held in and for

Come and hear him. Seats on sale ufacturing or dealing in any particus the city of Medford on March 19th. at Haskins' drug store. Lecture 50 jar line of goods. The work gener- 1911, for the adoption or rejection of " atly is compiled to meet the wants of those certain proposed charter the business community and is so amendments to the charter of the city POLK'S OREGON AND WASHING- thorough as to deserve their liberal of Medford, set forth in the foregoing resolution. Said election to be held at the time and places designated in said resolution

ROBT W TELFER.

TRANNA BURIAL

Funeral of the Late P. A. Tranna to Take Place Monday Morning at 10 o'Clock-Interment at Jacksonville to Follow Short Service.

The funeral of the late P. A. Tranna. member of the G. A. R., and a resident of the state of Oregon for 33 years, will be held Monday morn-G. A. R., will follow in the Catho- place; \$2000, one-half down. ie cemetery at incksonville,

Mr. Tranna died Wednesday night gon.

ARE YOU INTERESTED IN A GOOD

INVESTMENT? One hundred acres Butte Creek ottom, under irrigation, perpetual vater right. A1 for apples or pears; trees, plenty of water; fertile soil; an make big money raising onlons. elery, tomatoes and all kinds of vegtables; big money in subdivision; cent. oins a new townsite and the railroad; all under new wire fence; can adjoining land. Buy from owner what a snap, a little over \$300 an Box 35, Medford, Or.

NOTICE. Notice is hereby given that the unlessigned will apply to the city counil of the city of Medford, Or., at

B. S. RADCLIEF & CO.

#### CITY NOTICES.

RESOLUTION. Be it Resolved by the City Council of the City of Medford, Oregon: That there be and hereby is called special election in and for the City f Medford, to be held on the 10th day of March, 1911, between the cash down. ours of 9:00 o'clock a. m. and 5:00 'clock p. m., for the purpose of submitting to the qualified electors of from Talent, \$10,000, one-half on spray. When the iron sulphate is have closed in. As noted above, the said city, for their approval or relection, the following entitled amendnent to the charter of the City of Medford:

> of the City of Medford, providing for a board of registration, and its duties and the registration of voters.

mediately, and when the lime-sulphur some burning of the foliage and rus- section 72 thereof, providing for an a good poultry ranch, over \$1000 of is all added, the barrel should be fill- setting of the fruit. As the iron sui- ncrease of the bonded indebtedness of standing timber; \$1200 down, bal ed with water, the contents well stir- phide dries on the trees. It will said City to the extent of \$30,000, ance on time to suit the buyer; only said sum to be used for the sole pur- \$50 an acre., Look all over the counpose of making improvements in the try and see if you can find a place 24 hours. The object in using a brown. The material has good stick- water system of said city and paying so cheap.

allebt excess over the required ing qualities, and in spite of heavy for trunk, sanitary and storm sewers, Also 29 acres, orchard and alfalfa y sald city

> he improvement of the fire depart- 7 per cent. nent of said city.

f the City of Medford, amending sec- stamps, or come and see me. ion 72 thereof, providing for the reation of a sinking fund for the pur ose of the retirement of the bonds of to City of Medford.

An amendment to the charter of e city of Medford amending section payment of amount paid by purchas quent assassments in said city in ase the sale is vacated, set aside, r declared void by any court. The following named persons are

ereby appointed judges and clerks First Ward: J. W. Ling Judge, D. published. It contains an accurate r. Lawton judge and clerk, L. L.

Third Ward: P. W. Chelgrin judge,

H. Lorimer judge and clerk. The following are hereby designed

First Ward: Hall over Haskins Second Ward: Hotel Nash sample

City Recorder City of Medford.

Flower & Vegetable Seeds

from the people who can say We now our seeds are good because we have tested them; We are those people. Cut flowers and all kinds of potted plants.

J. T. BROADLEY & CO. Corner 6th and Central; Greenhouse near city reservoir. P. O. Box 521. Phones Store 1451 Main, Greenhouse 5181 Main.

ing at 10 o'clock in the Catholic fenced, timber, alfalfa and fruit land, charch here. The interment, which good house, pure water, 14 mile from vill be held under the auspices of the school, 300 young pear trees, lovely This 15 acres is one of the loveliest small ranches in southern Ore-

Sheltered by the hills from tle soil, an ideal place for health. \$134 Acre.

Also 34 acres, 1 mile from Talent, 12 acres of fruit, family orchard in bearing; apples, Newtowns, 12 acres, peach filled; 7 acres timber, irrigated, dwelling house shaded by large laurel sarden spot; pumping plant; terms, \$13,000, \$7000 cach, the balance in payments of \$1000 yearly at 6 per

Also 20 acres alfalfa and fruit e bought for one-half the price of land, with timber, 1 mile from Taland save the commission. Address acre. Where can you find near the tf\* depot and railroad a cheaper place? \$325 Acre.

Town lots in the newly incorporatd town of Talent, Or., on the installment plan

From \$150 to \$500 a Lot. A fine four acre ranch near Talent; ts regular meeting on March 7, 1911. very fertile alfalfa and fruit soil. Well or a license to sell spiritous, vin- watered, all fenced and cultivated; us and malt liquors in quantities Peach orcahrd, young, of 160 trees less than a gallon at its place of bus-bore last year. Apple trees 36, Apriiness at No. 31 South Front street. cot 1, cherry 2, English Walnuts 2, n said city, for a period of six Pear 12, Plum 5, Quince 21, Neda-

> Tokay and Malaga grapes 3 year old. Strawberries 1-2 acre Raspberries and Logans for family use. chicken ranch, chicken house, new wood-

Wagon shed, etc., good house, pring, water piped to house, creek runs through the place. Only \$1800

Also 17 acres, 14 acres commercial fruit bearing orchard, 2 miles

\$589 Acre. Also 80 acres fine timber, \$2000. one-half down.

36 acres \$243 acre. Forty acres; about 3 miles from Talent and Phoenix, Ore.: fruit land; An amendment to the charter 2 good springs, 5-room house, out of the City of Medford .amndeing uildings, small fruit, 5 acres cleared;

eretofore or hereafter constructed land; 2 1-4 miles south of Talent, Or.; 1300 young fruit trees, apples, An amendment to the charter peaches and pears; one acre in bearf the City of Medford, amending sec- ing; house, barn and outbuildings; ion 72 thereof, providing for an in- all fenced, most of it being Page rease of the bonded indebtedness of wire fence, 19-strand, rabbit tight; said city to the extent of \$8000, said sub-irrigated and tiled; \$225 acre oum to be used for the sole purpose of over half down, the rest on time at

Also lands, alfalfa and fruit, from An amendment to the charter 20 to 800 acres. Write, enclosing

## N. Judd Talent, Oregon

# **TALENT** Real Estate FOR SALE

Talent, 8-room house, good barn; 300 trees. Price \$4,000; terms

Good business openrtunities and locations, all paying.

66-acre tract, 5-room house and large barn, 3 miles from Talent, partly cleared and lots of good wood on place; must be sold seon; will go for \$1100. A 60-acre tract, water to irrigate

same; has a 5-room house and barn

to hold 6 head of horses, implements to run the place, and a wagon. This place put up 30 tons of hay last year, and no water was used. Price, \$2000, half down. A 74-sere tract, 2 1-2 miles from Tal ent; good 8-room house and large barn; 8 acres under ditch and in alfalfa and garden land; 34 acres under plow, and trees; 20 acres of orchard, of which 5 acres are in bearing; good terms and easy pay-

A 14 1-3 acre tract, lies entirely in city limits; has 9-room plastered house, good barn, well and power for irrigation of whole tract. Partly set of trees; easy terms. For plenty of other bargains call

> G. A. Gardner TALENT, OREGON.

# A REAL CITY STORE

# New, Clean Merchandise Displays

No doubt you have entered a big city grocery and viewed with pleasure the tastefully arranged displays of clean, shining bottle goods and new package goods. You canx see the same kind of displays in our

# New, Modern Store

Everything is new from floor to ceiling. The groceries carried in this store are FIRST QUALITY and everything is sold at reasonable prices

# Allen Grocery Co.

South Central Avenue Half a Block From Main Street

#### & Baumbach Campbell

MORTGAGE LOANS, COUNTY WARRANTS. CITY AND SCHOOL BONDS

Money on hand at all times to loan on improved ranches and fruit land.

PHONE3231.

320 GARNETT-COREY BLDG

coming to and going from this bak-

ery gives a view of happy faces with

not a trace of dyspepsia on a single

here, save the labor and get better

bread, and more for your money.

Everything warranted ure.

BREAD LINE

WATCHING THE

HOME-MADE PIES AND PASTRY

Medford Bakery @ Delicatessen SOUTH CENTRAL AVENUE

LADY COOK IN CHARGE.

# Main Street Business Property Medford's Exclusive Picture The-

## **Nets Over 8 Per Cent Interest**

Best location. Great increase in value. Lot 50 feet by 140 feet. Splendid buy for investment or speculation. Special price for quick action. Address

# Owner, Medford

P. O. BOX NO. 477.

J. E. ENYART, President J. A. PERRY, Vice-President F. E. MERRICK, Vice-President JOHN S. ORTH, Cashier W. B. JACKSON, Ass't Cashier.

# The Medford National Bank

Capital, \$100,000.00 Surplus, \$20,000.00

SAFE DEPOSIT BOXES FOR RENT. A GENERAL BANKING BUSINESS TRANSACTED. We SOLICIT YOUR PATRONAGE. 

#### THE HABIT GET

Of calling us if you have any electric work of any kind. We can fix you up in the best possible style.

It is a Good Habit and Will Cost You Nothing

# Electric Construction Co.

### Where to Go Tonight

## THE ISIS THEATRE

FRIDAY AND SATURDAY NIGHTS ONLY

A special matinee Saturday afternoon, given for the benefit of those who can't come to see this great attraction in the evening. It's useless to mention or good

Pictures and Songs, which you are AT THE ISIS:

Rudy, Crallnet and Saxophone Solos,

-and-Little Grace Bell, a Feature Act in Single Trapeze.

This is without doubt the best attraction we have ever been able o secure. These people are in a class by themselves, far superior to all others. A treat for the public FRIDAY AND SATURDAY NIGH

New Attraction at A Big Double Bill at The Isis TONIGHT THE MUSICAL BELLS Hattie, Cornet Soloist

## NATAT ORIUM

Extra-Tonight-Extra

Potato race on rink.

Tub and shower baths all day Saturday evening

Big dance in Mail ball room.

HIGH CLASS STOCK CO.

TONIGHT COMFORT'S CONFOUNDED CONFUSION." Three-Act Comedy Drama.

face. Don't start trying to make Last week of Marjorie Mande bread as mother used to. Buy it ville Stock Co. Reserve your seats by phone

> 2971. Beginning Sunday, February 26, high class vaudeville and moving

Latest Licensed Photo-

olays. One Dime-No More-One Dime.

## "NAT" THEATRE

Complete change of program

Today

Only the best and latest films

Admission 10c.

WHEN DOWN TOWN DROP IN AT THE

### "Nat" Confectionery

ICE CREAM, SOFT DRNIKS, CONFECTIONERY, LUNCH

A light, pleasant room, open from 8 a. m. to midnight. L. M. GRAMES, Proprietor

\*

# Offutt Rornes

# **Automobiles**

Auto Co.

GENERAL OVERHAULING & MACHINE REPAIRING.

First-Class Workmanship Guaranteed

PHONE MAIN 6231.

Corner Central Ave, and 8th St Medford, Or.