

# Recommendations Picture Reclaiming Alkali Soil Lands In Tulelake Area

For the past three years Farm Advisor Ken Baggett of Tulelake has been conducting tests in cooperation with Tulelake farmers to determine the best means of reclaiming the alkali soils in the northeast portion of the Tulelake basin. He has tried several correctives such as gypsum, sulfur, a sulfuric acid and feels that enough data has been obtained to make sound recommendations for the reclaiming of these soils.

The Farm Advisor says that high concentrations of soluble and insoluble sodium salts are the cause of all of the trouble and that only very little of the sodium can be leached from the soils by the application of water. It is possible to leach considerable calcium from the soil but most sodium is in an insoluble form which must be removed by a chemical reaction with the soil itself. This requires what he calls a soil corrective or soil amendment such as gypsum, sulfuric acid or sulfur. It also requires the application of an abundance of irrigation water frequently and a satisfactory system of soil drainage.

To reclaim alkali soils the Farm Advisor suggests that the soil be leveled, ditched and checked and that a good seedbed be prepared. After this has been accomplished, the farmer should then apply his soil corrective such as gypsum or sulfuric acid. After the amendment has been applied the field should be irrigated; the water should not be drained off the field but should be allowed to percolate through the soil and thereby allow

the corrective to react chemically with the sodium and form sodium sulfate which will leach out of the soil in the irrigation water. The Farm Advisor specifies that this chemical action doesn't seem to help the soil drainage unless the water is allowed to stay on the field. Then the water should drain through the soil rapidly on the third or fourth irrigation. The soil cannot be completely reclaimed in one or two years, but will require applications of the correctives to "slick spots" yearly, until they are completely reclaimed.

The Farm Advisor states that frequently farmers apply too small amounts of the corrective and as a result can see no appreciable benefit from the application. He recommends the application, to severe alkali soil, of not less than two tons of gypsum per acre; and it may be advisable to apply 3 or 4 tons per acre to the "slick spots" in the field. He does not recommend using less than 1 ton of sulfuric acid per acre and some fields may require 1 1/2-2 tons per acre. The sulfuric acid and gypsum should be irrigated frequently. Usually a stand of alfalfa or pasture can be obtained sooner where the acid was applied. Test plots where sulfur has been used in amounts varying from 500 lbs. to 3000 lbs. per acre have not produced satisfactory results according to the Farm Advisor. He says this may be due to the cold climatic conditions of the Tulelake Basin—for it requires warm weather, moisture and bacteria to convert the sulfur to gypsum which in turn chemically reacts with the sodium in the soil.

The Farm Advisor mentions the following points should be kept in mind in alkali reclamation:

1. Farmer should have field leveled and a good seedbed prepared before applying any soil corrective.
2. He should apply a sufficient amount of the corrective, otherwise the results will be unsatisfactory.
3. This soil corrective should not be worked into the soil but should stay on the surface.
4. After sufficient amounts of the correctives have been applied he should irrigate several times the first year.
5. Good results will be obtained only if the water is allowed to move through the soil rather than being drained off of the top of the soil.
6. If the cropland is to be worked the second year, it should be worked shallow, otherwise, alkali soil will be turned back to top and the reclamation process must be repeated.
7. It is advisable, wherever possible, to seed the alkali soils to alfalfa or permanent pasture the first year. This allows the crop to remain in for a period of years and does away with soil cultivation and encourages frequent irrigations.
8. Only the top six inches of soil should be tried to be reclaimed. To reclaim deeper would be too expensive. If the first six inches is fairly well reclaimed a crop can be raised which will tend to complete the reclamation process.

# Malin Host To Granges

MALIN—Malin Grange was host May 10, to the county meeting of the Pomona Grange. The meeting was held at the Malin Church and members from 10 granges were present.

Business sessions started at 10 a.m. and lunch was served at noon by the Home Economics ladies of the Malin and Merrill Granges.

Pomona Grange officers who participated were: Master, Mike Williams, Lecturer, Carl E. Yancey, Secretary, Mrs. Lois Brown, Treasurer, August Andriue, Overseer, Roy Anderson, Assistant Steward, Grant Brown, and Chaplain, Ruth Hall.

After lunch the following appeared on the afternoon program: Solo by Yesta Shogren, Accordion Solo by Opal Beatty. Poem by Fred Brown honoring Mothers and a safety talk by Mr. Grant Brown. Dale Barnes demonstrated the proper method for reviving a drowning person.

Interesting and enlightening talks were given by Henry Semon, who spoke on Legislature and Charlie Henderson, who spoke on Agriculture.

Prizes were given to the oldest mother, the youngest mother and the mother with the most children and the one with the most boys.

County Grange Deputy Bonifay Yancey conferred the Pomona Degree upon Lucy Graham, George Shuman, Margaret Shuman, R. A. Drake and A. L. Dixon.

# Malin Host To Granges

MALIN—Malin Grange was host May 10, to the county meeting of the Pomona Grange. The meeting was held at the Malin Church and members from 10 granges were present.

Business sessions started at 10 a.m. and lunch was served at noon by the Home Economics ladies of the Malin and Merrill Granges.

Pomona Grange officers who participated were: Master, Mike Williams, Lecturer, Carl E. Yancey, Secretary, Mrs. Lois Brown, Treasurer, August Andriue, Overseer, Roy Anderson, Assistant Steward, Grant Brown, and Chaplain, Ruth Hall.

After lunch the following appeared on the afternoon program: Solo by Yesta Shogren, Accordion Solo by Opal Beatty. Poem by Fred Brown honoring Mothers and a safety talk by Mr. Grant Brown. Dale Barnes demonstrated the proper method for reviving a drowning person.

Interesting and enlightening talks were given by Henry Semon, who spoke on Legislature and Charlie Henderson, who spoke on Agriculture.

Prizes were given to the oldest mother, the youngest mother and the mother with the most children and the one with the most boys.

County Grange Deputy Bonifay Yancey conferred the Pomona Degree upon Lucy Graham, George Shuman, Margaret Shuman, R. A. Drake and A. L. Dixon.

# Herald and News FARM NEWS



## Rat Control Booklet Out

Millions of dollars worth of food and property are destroyed or damaged each year by house rats and mice. These pests may also bring serious diseases to man—plague, epidemic typhus, and others—either directly or through fleas or mites.

Controls for rats and mice are discussed in the new circular "Controlling Rats and Mice" by Tracy I. Storer, professor of zoology, University of California College of Agriculture, Davis. Traps, poisoned baits, gases, dusts, and more important, exclusion and sanitation methods are fully covered in this circular published by the University of California College of Agriculture. The publication is available from University Farm Advisor's office in Tulelake.

## Meat Production Seen Higher

Economists of the U.S. Department of Agriculture figure that meat production in the next few months will probably run well above the small production for the same period last year. The same specialists also expect a considerably smaller pig crop in the fall of '52.

They point out that the hog-corn ration recently have been discouraged among hog producers. They point out however, that if feed grain crop are average or better this year, hog raising will pay considerably better next winter than it has this past season.

## WURLITZER A magnificent piano. Many lovely styles and finishes to choose from.

LOUIS R. MANN PIANO CO. 120 No. 7th

## OVER 1/4 OF A MILLION Tractors NOW RUNNING ON PROPANE

"Also Known As L.P. Gas or Butane"

Why?

- 12% More Power!!
- 30% Savings On Fuel!!
- 90% Savings On Oil!!
- 50% Savings On Maintenance!!

We Specialize In Propane Equipment For Tractors... OPEN SATURDAY... Ph. 2-2541

KLAMATH COMPANY Modern Gas Appliances Storage Tanks Furnisher Main at Link River Bridge Bill Steppe Mgr.

# Spud Crop Planting In Full Swing

Spud planting was in full swing throughout most of the Klamath basin this week as farmers raced threatening weather to get the tubers in the ground.

It marks the second week of heavy planting, according to County Agent Charlie Henderson, and the end of the week should see the major portion of potatoes planted.

Only major threat at the moment is a heavy rainfall, but general weather conditions seem to hold at least a promise of continued fair, if somewhat cold, conditions.

An increased acreage figure is in prospect for the Basin with probably nineteen to twenty thousand acres planted to spuds as compared to fifteen thousand last year.

## Meat Production Seen Higher

Economists of the U.S. Department of Agriculture figure that meat production in the next few months will probably run well above the small production for the same period last year. The same specialists also expect a considerably smaller pig crop in the fall of '52.

They point out that the hog-corn ration recently have been discouraged among hog producers. They point out however, that if feed grain crop are average or better this year, hog raising will pay considerably better next winter than it has this past season.

## 100 TABLET BOTTLE ONLY 49¢ St. Joseph ASPIRIN

A good growing season would find market conditions good if present trends and outlooks continue. There is a marked shortage of spuds at present and a big hole in the market is to be anticipated in late summer.

Range conditions are behind this same time last year. Continued cold weather has retarded the growth of grass on the meadows and only a small portion of the normal number of cattle have so far been shipped back to the Basin pastures from their California wintering grounds.

An estimate made by J. D. Vertrees, range expert from the county's office here, puts the Fort Klamath summer range date back nearly three weeks over normal. A heavy snow fall coupled

Pianos and Band instruments for rent. Rent to Apply on Purchase. kyle morgan pianos "yours for a happier future through music"

## Economical Storage NOW AVAILABLE



Butler's safe, economical grain storage that's available now. Butler 1,000 bushel Continuous Corrugated Grain Bins are fire-safe, rodent-proof, weathertight, easy to erect. Be sure you protect your grain profits with Butler Grain Bins.

## Order NOW

These bins are also available in sizes of 1300, 2200, 3276 and 3600 bushels. ORDER NOW for immediate delivery and be ready for harvest. These are in stock at the following firms:

- At Klamath Falls... J. W. Kerns Klamath Feed Co. Standard Implement Co. Byron Johnson Garrison Equipment
- At Merrill... Merrill Lumber Co.
- At Malin... Malin Grain and Feed
- At Tulelake... Crater Lake Machinery
- At Dorris... Butte Valley Hardware and Supply

## Bedding Plants Annuals, Perennials and Semi's Now Is The Time to Plant Them!

Suburban Flower Shop 3614 South 6th Phone 8188

## NOW! KELLY RYAN Rake-away



You Can Cut Haying Costs RIGHT and LEFT!

Yes Sir—Year hay-making team scores again. Year Kelly Ryan farm equipment engineers come through with a real "Rake-away".

It's another Rake-away Rake. This one winds over to the right for one top pick-up by right-hand fed baler and cutter. When more, it's extendable, which enables you to rake a 10 instead of an 8 foot swath.

Only Rake-away Gives You These Other Advantages: Solid rubber wheels are ground driven—no trackline wear. Each is spring expanded, results in its own floating axle and rolls freely over rough, uneven ground to take strain even against the wind.

## J.W. KERNS OREG., LTD.

734 South 6th Klamath Falls, Oregon Phone 4197

## - FOR SPEEDY ERECTION -



## - AT LOWER COST -



**BUTLER Steel Buildings**

Built Better To Last Longer

These low-cost buildings have hundreds of industrial and commercial uses. They're adaptable... quickly erected... permanent. They cost less—give you more for your building dollar. Modern rigid frame, truss-clear design. See how quickly, economically you can use them in your business. Widths: 20', 24', 28', 32', 36', 40', 50', 60', 70' and wider; lengths variable. For full information, inquire today.

Sold and Recommended by **HEATON MACHINE AND SUPPLY** 428 Spring Ph. 6691

## SAVE TIME & MANPOWER with the Bale-Matic



**Saves Leaves** and all feed value in hay.

NO SLOTS in feeder conveyor floor to lose leaves—the part of the hay that has REAL FEED VALUE for your stock!

ONE CONTINUOUS FLOOR from windrow to bale!

BALES of uniform weight and size

square corners tied with two wires that stay tied

**BYRON JOHNSON** "Your Minneapolis-Moline Dealer" Merrill-Lakeview Junction—Phone 9789 Malin — Phone 309

## SEARS ROEBUCK AND CO. SPECIAL! Catalog Order Desk



## Farm-Master Aluminum Roofing and Siding

7'x26" sheet .. 1.90 \* 10'x26" sheet 2.71  
8'x26" sheet .. 2.18 12'x26" sheet 3.26

Make buildings more permanent with aluminum corrugated sheeting! Won't rust... never needs painting or other upkeep. Use it for siding or roofing, easy to apply. 1/4 in. corrugated. Get lasting building protection at Sears low price!

1-in. Chick Netting 48-in. High; 50-ft. Roll Farm-Master... 2.49 Protect growing chicks with galvanized 20-ga. steel netting enclosure. Bugged double-strand top and bottom wires.

100,000 ITEMS AVAILABLE THRU CATALOG SALES DEPT.

Barbed Fence Wire 9.55 Sharp 2-point high quality wire. Adds lasting protection. 80 rods in spool. Buy now!

\* ALL PRICES PLUS SHIPPING **SEARS CATALOG ORDER DESK** 133 So. 8th Phone 5188

## Increase POTATO yield



## with... SHELL NH3

Either way you use it, you're sure it's applied scientifically... by experts who know local soil conditions

**NITROGATION SERVICE\*** Your distributor meters Shell NH<sub>3</sub> (Agricultural Ammonia) from cylinders directly into the irrigation water. From his experience with local crops, he knows exactly how much ammonia to apply. Then the nitrogen-rich ammonia, in the proper concentration, is distributed evenly by the water... soaks with the water into the soil where it immediately begins to feed the growing plants.

**NITROJECTION SERVICE\*** This is a direct soil-injection of Shell NH<sub>3</sub>, made with special equipment supplied by your Shell distributor. Again, from his local experience, he knows the proper depth to which the ammonia should be injected, and the exact amount to be applied. As a result, the nitrogen-rich ammonia goes where it will do the crop the most good.

SOLD BY **WALKER BROS.** MERRILL, OREGON PHONE 4211