

Essential Hog Houses Silo our Lye source Your Lye Source Poultry House Brooder MIDE House Toilet Dog Lye Source Kitchen The softher product will do so many helpful things ential Depot co

cost—as a 10-cent can of Lewis' Lye? The housewife save the cost of expensive soaps, cleansers, water softeners, drain solvents, etc. The farmer saves on expensive cleaners, disinfectants sarcoptic mange dips, etc. This handbook tells you how. Keep the case of 4 dozen cans. Lewis' Lye on hand always. Many farmers buy Lewis' Lye by 940 2495 - Your Lye Source

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TOECH RAN 2495 - YOUR LIVE SOUTCE

ou Lye Source

EssentialDeho WHAT THE BRAND NAME "LEWIS" LYE" MEANS TO YOU

Lye is a chemical. It differs from most products you buy . . . you cannot determine its quality by looking at it, or by any Your Lye Sou of the simple tests that make you a good judge of articles like cloth or food. With lye, as with drugs, you must have confidence in the brand and its manufacturer. You can rely on Lewis' Lye because:-

ewis' Lye because:— 1. Lewis' Lye has been a favorite with farmers and housewives for 3 generations . . . has proved its dependability. Lewis' Lye Gs made by the Pennsylvania Salt Mfg. Cook Co

the fire firm in America to manufacture lye for domestic

nuerloses—over 80 years ago. Sessential The Pennsylvania Salt Mfg. Co. are manufacturing chemists. Their double refining process produces lye that is low in salt content, low in carbonates, and extremely low in iron. This company maintains the most rigid qualitycontrol to safeguard the uniformity of the lye thus pro-Aon rhe 2011ce duced. Spectrographic analysis is among the methods used—one of the most sensitive, precise known to science.

The unwavering uniformity of Lewis' Lye resulting from the above process has given Dewis' Lye users confidence

in the same dependable results every time they use it.

5. Lewis' Lye is extremely high test . . . does more work per can.

6. Lewis' Lye to packed in the improved flake form, another Co example of Lewis' Lye leadership. It keeps irritating dust to a minimum . . . dissolves quicker . . . pours freely.

Eewis' Lye reaches you full strength because his packed in air-tight cans. The friction top opens easily, keeps Lewis' Lye dry and full strength until completely used.

fall strength is not dependable. Take no sulting from chances on live-stock and poultry losses TREONICE Protection sulting from a failure of program . . . do not risk a season's soap-making grease . . . byothing inferior or unknown lye offic directions in this handbook are based on using top quality Lewis Lye. Avoid substitute brands claimed to be "just as good." Your local grocer has Lewis' Lye or can get it for you. You cannot afford to take chances when genuine Lewis' Lye costs only 10c per can.

Lewis' Lye has been tested and approved at You Lye Sound ricultural colleges and experiment stations. You Lye Sounce For Your

AGRICULTURAL

COLLEGE

PRACTICAL SANITATION

Sanitation-keeping things clean and disinfected-and proper management are necessary for proper health and growth When civilized mankind settled in permanent homes and Your Le Source crowded cities, sanitation became vital in Controlling plagues and chronic disease. When animals and fowls were taken from their wild, migratory life and cooped and crowded on the farm, they were subjected to similar disease and parasite dangers. Farm sanitation and proper management have been slower to develop. But are just as necessary if animal and poultry health are to be maintained.

Prevention Is Best Treatment

e Source

EssentialDePo

to be maintained.

Sanitation is a prime example of the old saving "an ounce of prevention is worth a pound of cure." Sanitation and proper management help prevent some diseases and parasite infestations from starting . . . or

EssentialDepu

where these do exist, help control their spread or reoccurrence When disease breaks out, get in touch with the Department of Veterinary Medicine at your state agricultural college or with a competent local veterinarian. They will advise how to control the outbreak and treat the animals or fowls infected.

Every farmer knows unbealthy hogs, cattle and poultry are unprofitable. They produce less meat, butterfat and eggs; and these products bring lower prices. Farm sanitation, then, becomes a matter of good business practice. comes a matter of good business practice.

Federal and state agricultural authorities have long preached the doctrine of sanitation and good management. Farm papers County Agents, Vocational Agricultural Teachers have constantly urged it. Nearly every well-informed farmer will agree that sanitation and good management do great things in saving your pigs, calves and chicks . . . in causing faster gains or less feed . . . in yielding more butterfat and eggs . . . yet many farmers still practice it very irregularly, if at all. Why?

Your Lye Source Sanitation is often avoided because it is thought to be costly or hard work, or to leave a disagreeable smell. While certai disinfectants do have these limitations, Lewis' Lye does no Growing realization of this fact is causing thousands of farmer to start practising Lewis Lye Sanitation every year. They fin it offers the following advantages:

Sanitation Need Not Be Expensive

Lewis' Lye Sanitation is within the reac of every farm! Lewis' Lye dissolved water makes a powerful disinfectant costir only one cent a gallon! This low cost pe mits frequent, thorough sanitation-all ye

around—it will help prevent the spread of disease germs at Your Lye Source parasites by contaminated surroundings such as eating at Your We Source drinking troughs, floors and walls.

A hot solution of Lewis' Lye, made by EssentialDepo Cleans and adding 1 can to 10 gallons of warm water. applied after removing beauting, and droppings, cuts through remaining filth, droppings, cuts through remaining filth, Then spraying or Disinfect: Your We source and dirt making surfaces clean. Then spraying or strength helps kill many disease germs of the above Lewis' Lye a practical form the spraying of the above Lewis' Lye a practical form the spraying of the spraying or the spraying of the spra

Those accustomed to the "medical" or crude Odorles carbolic smell of other disinfectants welcome the fact that premises disinfected with Lewis' Lye have no odor except the fresh sweet smell of cleanliness. Lewis Lye destroys foreign odors when it reaches their source and has no odor of its own to irritate animals or poutery or to taint milk, cream, butter or eggs.

One reason why Lewis' Lye has been a favorite with farmers is because its manufacturers have been "farm-minded". Scientifically Proven bave worked for years to help solve farm problems. In addition to research years lished an Industrial problems. In addition to research year atter year, they established an Industrial Fellowship at with University of Wisconsin. There the germ-killing properties of Lewis' Lye were proven ... compared with other disinfectants. Tests showed that Lewis' Lye is 6 times as strong as pure carbolic acid for

killing the germs of Typhoid Fever, using the U. S. Department of Agriculture's standard test. Using other germs and a very similar method of test, it was found that Lewis Rye kills Broabortus (organism of contagious abortion carticattle) and S. pullorum (organism of bacillary white diarrhea of chickens). Tests on 5 strains of Br. abortus showed that 1 part of Lewis' Lye in 800 parts of water killed in 10 minutes. water killed in 10 minut many other disease germs.

The above and on S. pullorum showed 1 part of Lewis' Lye in 1200 parts of water killed in 10 minutes. Lewis' Lye is effective against

The above tests showed the amaning economy of Lewis' Lye Sanitation. For example, in tests on bacillary white diarrhea germs in the presence of chicken manuse at 45° F., the Lewis' Lye solution was less than 1/25the as costly as carbolic acid solution of equal killing strength. Think how

much ofteneroand more freely you can afford to use Lewis' Lye to help protect your livestock and poultry.

Tests show Lewis' Lye 6 times as strong as carbolic acid for killing typhoid fever germs using F.D.A. 0A02495 - Your Lye Source Your Lye Source method of test.

Economica



EssentialDepu HOG SANITATION

Hog sanitation costs little, yet pays big profigout for example, the following Yesults were reported in University of Illinois Experi-Station Circular No. 306 (1931): Tests conducted on 154 farms showed that 1.7 more pigs per litter were raised, due to sanizot.Co tation. One fourth fewer names were required to raise same number of pigs as under the old method. Runts raised the old way averaged 18 per 100 pigs, while under sanitation the following

year on the same farms runts were year on the same farms runts were 98.2% of the pigs saved at farlowing time. The sanitation pigs, when 4 months old, averaged 28 pounds more than non-sanitation pigs on the same farms. Manitation pigs required about 20% less teed per 100 powers of gain. They were ready for market 7 weeks sounged than the usual market age with old methods, and were more uniform in weight and condition.

Think when these improvements would mean in dollars and on the control of the con cents in sour own herd. More pigs per litter . . . rungs almost eliminated . . . faster gains, on less feed . . . a shorter feeding period . . . earlier marketing, when prices are usually higher . . . hogs that grade higher at the market. These benefits are available at small cost and with a little systematic work.

Roundworms

Large roundworm infessations cost hog raisers millions of dallars annually through lost and stunted pigs, wasted feed and reduced market prices.

Agricultural College (69) eriments sponsored by the makers of Lewis' Lye should that the most serious menace and colosses caused by the roundworm do not come from mature would in the intestines but during the early downlopment it the worm's life cycle. Worm eggs—so small they cannot be seen by the naked eye-are passed out in the hog droppings and develop to the hatching stage on the surface of

Quality pays, when disinfecting-use 10ce 240 2495 - Your Lye Source Your Lye Source

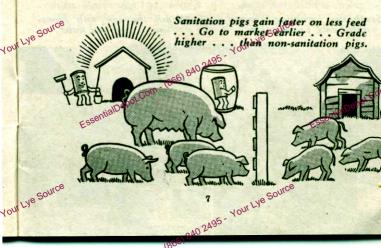
the soil. These are picked up by the rooting pigs and hatch in the small intestines. A few minutes after hatching, the tiny worms burrow through the intestine walls and get into the blood stream, thence to the liver and lungs where they develop, feeding on the delicate tissues. Irritation thus caused in the lungs results in a "thumpy" cough which brings the worms into the throat and mouth. They are swaffowed and pass to the intestines where they may live from inoths or even years sometimes growing to 15 to 17 conches in length. There they consume feed intended to taken the hog, and generally contribute to its unthrifty condition.

Roundworms are prolific egg layers; one was found to contain as many as 26,000,000. These eggs are passed out on the droppings, are later picked by the same or other hogs, and the roundworm cycle of destruction begins all over again.

Roundworm eggs remain fertile on the surface of the soil for long periods of time. They seem to have great resistance to cold and heat. They are particularly resistant to most disinfectants. Oklahoma A. & M. College Circular No. 225 (1929) states, "It has been found experimentally that but lye water is the only thing that will destroy worm eggs."

As the most severe damage is done by the young worms that leave the intestines immediately after hatching, vermifuges offer only partial protection. The best solution is to break up the worm's life cycle by destroying the eggs before they are picked up by the wine. The Lewis' Lye Hog Sanitation Plan. It is a practical economical way of doing this.

The Lewis' Lye plan of sanitation will aid in preventing the spread of diseases in general by contaminated surroundings. Disease



EssentialDeve EssentialDepu While this plan will help to protect hogs against cholera from being spread by contaminated surroundings, this highly contagious disease may be contracted in spite of sanitary practice; therefore vaccination is advisable. If it breaks out in your herd, consult a veterinary.

You Erysipelas

Swine erysipelas Swine erysipelas (absolve Source)

disease") has officreased greatly during the last 20 years. Difficult to diagnose, erysipelas sometimes has been mistaken for choleracound gastro enteritis. Erysipelas is a serious menace to how profits as it reduces rate of gain, wastes feed, and often with a leading according to the makers of Live cooperated with a leading according to the Lye cooperated with a leading agricultural college in the testing of various disinfectants in killing erysipelas germs. As shown by the chart on page 9, prepared at the college, Lewis' Lye was the most effective of the disinfectants tested. To help protect your herd against the spread of profit-destroying erysipelas by contaminated surroundings, treat hog quarters, equipment and shipping trucks as described below. Isolate warchased pigs Your Lye before adding to your herd.

Sanitation Plan

Lewis' Lye Hog By following this plan carefully you can help propent troublesome diseases and parayour hog profits.

1. Clean and scrub farrowing and other hog houses with a

solution of 1 can of Lewis' Lve to 10 gallons of hot water.

2. If the houses do not have wood or cement floors, remove

with Lewis' Lye solution. Scrub the farrowing house Wash the sow with homemade soup and water.



EssentialDeve the top soil from these floors and replace with soil which has not been contaminated with hog droppings.

3. Wash the sow homemade soap and water to remove worm eggs and disease-laden dust adhering to udder and teats, before putting her in clean quarters.

4. Haul the sow and higs fresh pastures where here to fresh pastures where hogs have not been fun previous year. Keep there at least 4 months.

5. Where it is necessary to use old yards or runways, plow the ground deeply, as close to buildings, fences, etc

Your Lye so for Goossible. 6. Scrape the feeding rodu troughs and floors thorough-Lewis' Lye solution. Repeate 20 DILUTION NILLING IN ALL TRIALS at frequent intervals. (860)

Chart showing highest effective Swine Francisco

(In the presence of 5% pig manure at 68° Fahrenheit and with exposures of 5, 10,



DILUTION KILLING IN SOME TRIALS

Improperly cleaned and disinfected shipping trucks and railad cars transmit disease and parasites. They can be already wis' I would be suited to the control of the control road cars transmit disease and parasites. They can be cleaned and disinfected easily and inexpensively the Lewis' Lye way. Lewis' Lye solution removes foreign odors when it reaches their source and has no odor of its own, permitting shipping trucks to be used for other types of hauling. Treat as above. Scantion. Do not permit an unclean truck to gover your farm.

BUTCHERING

A hot solution of Lewis' Land helps loosen hog hair and place the skin in a sanitary condition by removing the scurf. After the hog has been stuck and allowed to bleed thoroughly, dip the carcass in a harrel or tank of hot water (150° F.) in whickeon has been dissolved 1/4 can of Lovie. has been dissolved 1/4 can of Lewis' Lye for each 30 gattons of water sused. Leave the carcass in the water offy long enough to permit the hair to be pulled out easily. If the hog is larger than the container, dip the tail end first.

Lye in each gallon of water. Rinse with fresh water. Clean and disinfect curing containers and butchering utensils by scrubbing with a solution of 2 rounded tablespoons of Lewis'

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FEEDING LEWIS' LYE TO HOGS

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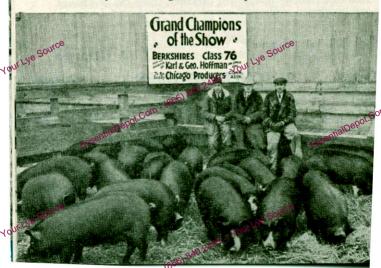
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as generations. When farmers started using Lewis Lye to hogs, making soap instead of leaching wood asheolytha ald Lye for source of lye) There is nothing new about feeding Lewis' Lye to hogs. hog feed, instead of the uncertain, messy practice of dumping wood ashes in the hog lot. Now, in nearly every district where Lewis' Lye is sold you will find many farmers feeding Lewis' Lye regularly in swill or slop.

An interesting thing about the feeding of Lewis' Lye to hoos is the enthanciasm it creates among hog raisers. This practice, developed by the farmers themselves, has spread from farm to farm until it has become one of the leading uses of Lewis' Lve. We have thousands of letters in our file-from farmers raising a few hogs for their own consumption, from "market hog" raisers with huge herds, and from breeders of cham-Neutralizing harmful neidelic and Lewis' Lye has helped them. Some of Neutralizing harmful neidelic and some source of the second of Lewis' Leye to hogs are:

Lewis' Lye is extremely effective in neutralizing acids. When added to swill or slop, Lewis Lye helps to neutralize the excessive acidity often to and in this feed.

the 1939 International Livestock Show car lot hog compression tition write: "We've fed IFWIS' IVE Karl and George Hoffman of Ida Grove, Ia., winners of years. Our 1939 Grand Champions were fed LEWIS' LYE from weaning time until shipment to the show."



EssentialDepe Increasing digestibility of oat and barley hulls.

It is known that lve solutions are capable of hydrolizing cellulose and thus making certain fibers more digestible. Experiment Station tests indicate oat hulls and barley hulls increase in digestibility when soaked in lye solutions. To permit You We soutfall action of the Lewis' Lye on the grain, and it to the slop or mash the night before.

Imparting alkalinity to feed.

The addition of Lewis' Lye to slop or mash is an effective,

EssentialDepu

Direction for Feeding

inexpensive way to impart alkalinity to feed. It costs only 2½ cents for each 50 gallons of feed or about 1/15th cent

per hog, per feeding.

Dissolve da Can of Lewis' Lye in a 50 gallon barrer of slop or swill-or else use in the proportion of 1/4 teaspoon to each gallon.

When preparing a mash, dissolve the spoon of Lewis' Lye in each gallon of water just before the

You Lye South Red Lewis' Lye to each gallon of Solvinking water

BEEF CATTLE SANITATION

Steers roaming the plains do not need sanitation, but the Co growing practise of fattening steers on small feed lot offas made cattle sanitation increasingly important. Scrapeedirt and filth from barns, feeding troughs and floors; then scrub with a solution of 1 can of Lewis' Lye to 10 gallons of water. Spray walls with the same Lewis' Lye solution. Lewis' Lye is very effective in helping to prevent the spread of contagious abortion in cattle by contaminated premises.

DEHORNING CALVES

Car Lye Source Horns, in addition to endangesing the herd, reduce the market value of a steer. The August 1939 issue National Livestock Producer Magazine states." Stocker and feeder buyers on the average will buy cattle without horns at 35c per hundred more than they will pay for cattle with horns. They consider horns a liability with feed-lot. Packer buyers agree that horn are a liability too, because they will pay 25c per hundred more on the average for cattle without horns. Lack of proper gains in the feed-lot, and bruised meat on the hook are the 2 big counts against cattle with horns. This is quite a heavy penalty for neglecting a rather simple dehorning job when the cattle were calves" The growth of horns on calves can be prevented easily and humanely with Lewis' Lye. See directions on page 21.

11

You We South the South of South

EssentialDepu Essential LEWIS' LYE SARCOPTIC MANGE DIP

Sarcoptic mange, the most serious of hog skin diseases, costs hog producers hundreds of thousands of dollars every year. owhen marketed. The indirect loss may even be greater because irritation of sarcoptic mange, according to 900°C. culture Farmers' Bulletin No. 108500" causes arrested growth. unthrifty condition, decreased witality, functional disturbance and increased death rate . Dipping is the best method

History of epot. Com. (866)

Because the usual treatments for sarcoptie mange had certain disadvantages the Lewis Lye Dip makers of Lewis' Lye started experiments, through their Industrial Fellow at the Uni-

versity of Wisconsin and J. J. Covner a prominent hog expert, which disclosed that a combination of Lewis' Lye and sulphur was very effective and had several advantages. The Lewis' Lye or man, a distinct advantage over crank gove oil which often contains lead (from gasoline) which irritates and is injurious to the hog's skin. Lewis' Lye Dip ingredients are easy to obtain: Sulphur can be bounded at any druggist, Lewis' Lye from any grocery. As Lewis Lye is packed in air-tight metal containers, it remains at full strength until used, which may prepare with lime. The Lewis' Lye Dip is easy of the Lewis' Lye Dip is inaversaling. To make the Lye of the Lewis' Lye Dip is inaversaling.

Less Lye Dip is inexpensive. To make 40 gattons-sufficient to treat 100 pigs-all you need is 3 cans of Lewis' Lye and 5 lbs. of flowers of sulphur. It costs less than 1c per

each pig dipped.

Your Lye Softe pare

1. Place the sulphur in a barrel or old bucket (not aluminum) and add 3 cans of Lewis' Lye. Mix well with a wooden stick;

then stir steadiled as ½ cup of water is added. As the stirring continues, it will be noticed that the mixture becomes very warm and the sulphur turns red, indicating a chemical reaction taking place which turns the sulphur into a soluble form that penetrates into the sarcoptic mangeo 2. And 40 gallons of water to make the dip. Essential Depo mite burrower

When using large vats, prepare sufficient solution to immerse hogs completely. Mix ingredients in the same proportions as above.

> The flake form of Lewis' Lve minimizes fumes, results for the source (800) 840 2495

Your Lye Source

EssentialDepo EssentialDepu Treat infected animals when you discover When to Treat the disease, and isolate them at once. A

wise precaution is to treat all hogs just before they go into winter quarters. Do not dip hogs in extremely cold weather.

Your We so which the hogs are treated as a preventive measure, or when For a more severe condition, 2 or evenual treatments. a fresh solution prepared each offine.

> Scrub severely affected parts with the solu- How to Treat tion and a stiff boosh before dipping. Immerse smaller pigs in a barrel, holding by the forelegs. Total larger animals in a regular dipping plant or vat; or soray or scrub with a stiff brush, making sure that the Lewis Lye Dip covers all of the skin surface—especially under the legs, belly and ears.

Sows should not be dipped within 2 weeks before farrowing time. When the pigs are about 3 weeks old the sow and pigs may be dipped without risk. Be sure to dip all the litter to

Clean, sanitary quarters aid in Sontrolling the spread of all paragies and disease. Clean and then scrub spray the quarters Escential Prot water.

Escential Prot water.

Escential Prot Co with a solution of Can of Lewis' Lve in 10 gallons of thot water.

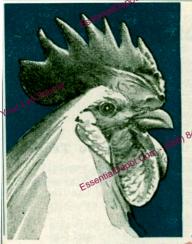
Sanitation Importan

LEFT. One of the pigs used in the first Lewis' Lye Sarcoptic Mange Dip tests. It was very scabby . . . the left ham was nearly bare of hair . . . weight about 60 lbs. ... a typical case of severe sarcoptic mange infestation. RIGHT. The same pig 19 weeks later 50. weight 250 lbs. The sarcoptic mange condition completely disappeared after two dippings-10 days apart-in Lewis' Lye Sarcoptio Mange Dip.









POULTRY SANITATION

Every poult purce knows that to be profitable, poultry must be healthy. Disease and parasite ridanden birds cannot produce meat and eggs on a paving basis. Why do so many beginners in poultry raising do well the first year and then Co run into serious trouble the Ofollowing years Becauses the disease germs and parasites accumulate, unless controlled by proper sanitation, infecting all birds that are raised or added to the

EssentialDepu

State Experiment Station bulle-find they all agree that adequate sanitalism is all you will find they all agree that adequate sanitation is absolutely essential to successful poultry raising.

1. Help control disease infection and para-

Rules for Sanitation

infestation from local sources by cleaning and disinfecting poultry premises and feeding utensils regularly with Lewish Lye. Disinfect drinking water with B-Kni Raise cleaning and disinfecting poultry prem-co

chieks on clean ground. Rotate pasture for soult birds. Do not mix young and old birds.

Help protect poultry from outside sources by isolating additions to your flock for 2 weeks. Do not allow visitors on your poultry premises. Disinfect shipping crates with Lewis' Lye solution. Your Lye Source

When sickness breaks out, isolate the ailing birds and kill and burn the hopelessly ill ones. De not return doubtful birds to the flock.

Effective Disinfection

A prominent agricultural college authority, after 6 experiments with various disinfectdisinfectants are sunlight, drying, and a dilute solution of the." ing poultry magazine: "The most practical Co

As susplight and drying are usually impractical is poultry house interiors, Lewis' Lye is the logical disinfectant to use.

This same authority states: "All houses, feed hoppers and water troughs previously used for chickens should be thoroughly scrubbed and soaked in a hot lye solution. This will not only kill the round worm eggs, but will also kill many our Lye Sourdisease germs with which it comes in contact." His tests

showed Lewis' Lye to be extremely effective for killing germs responsible for bacillary white diarrhea of chicken 5).

Cornell Extension Bulletin 186 (1929) states: "When a serious outbreak of coccidiosis occurs in a flock, kill and burn all badly affected chicks. Clean and disinfect houses with a you be solution Clean houses daily for solveral days if the epidemic is bad." A special diet is the commended for the remaining birds. Use Lewis' Lye solution for cleaning and disinfecting poultry houses. Daring epidemics, clean daily all dropping boards.

The spread of many poultry diseases by contaminated premises and objects may be guarded against by a regular contaminated premises and objects may be guarded against by a regular contaminated contaminated premises and objects may be guarded against by a regular contaminated contaminated

sanitation program before they attack the flock.

Powerful While all foreign material should be scraped and swept out before any disinfectant is Cleaning used, it is impossible to eliminate it com-pletely from cracks and other inaccessible

places. No other commonly used disinfectant has the power Your Lie Combination of cleaning and distinfection is what makes to cut through the remaining filth and dirt like Lewis' Lye.

Eggs readily absorb strong odges; poultry Odorless are irritated by them. The strong "medical" smell associated with Shany disinfectants is avoided when Lewis' Lye is usedows it has no odor whatsoever and removes co foreign odors when it reaches their source.

As described on page 5, tests show Lewis' Economica Lye to be less than 1/25th as costly to use as carbolic acid in killing B.W.D. germs in presence of chicken manure at 45° F. As poultrymen must practice economy to show a profit, this saving is well worthwhile. The low cost Your We Sound Dissolve 1 of Lewis' Lye solution—only 1c per gallon—permits frequent

Dissolve 1 can of Lewis' Lye in 10 gallons of water. For smaller quantities, dissolve 2 rounded tablespoons in each gallon of water. When desiring to will worm eggs,

use hot water. Any handy container (except aluminum) may

How to Pre-

pare Solution

be used; rinse container after using.

First scrape out all litter, filth, dirt and other material with a shovel or hoe. Disother material with a shovel or hoe. Dispose of this where it will not be reached by poultry. Next, sweep out all straw, dust, etc. Then, scrub all surfaces within reach of poultry with the Lewis' Lye solutions, using an old broom or brush. Use the solution freely—it costs only 1c per gallon. If you have a hand or power sprayer, follow the scrub
15

(300)

(300)

(300)

(300)

(300) Your Lye Source

bing with a spray of Lewis' Lye solution, being particularly careful to force it into cracks, corners and other inaccessible places, as no disinfectant can kill germs or worm eggs unless it comes in contact with them. Spray walls and ceilings also.

To prolong the life of the brooms, buckets, sprayers, etc., solution gets on your skin, but riped with the solution gets on your skin, but riped with the solution gets on your skin, but riped with the Lewis' Lye plenty of fresh water to prevent irritation. If your skin is unusually sensitive, rubber gloves will protect your hands.

Chicks and other poultry may be admitted to premises with-

out harm 1 hour after disinfecting with Lewis' Lye.

Don't try to save money and time by "cutting corners" on sanitation one outbreak of disease or parasites will more than wipe out your saving. Once or twice a year is not often enough. Remember, Lewis' Lye solution costs only 1c per gallon, so the expense is no excuse for not practising sanitation regularly throughout the year. Sanitation pays.

Special Directions

1. Laying Houses, Clean and disinfect as often as is practical once a month is not too often. This keeps the house free from objectionable odors Wand helps prevent

disease and parasites. Apply Lewis Lye solution as described on page 15.

2. Brooder Houses. Chicks are very susceptible to disease and must be protected against disastrous death losses. Never put chicks into a Grooder house that has not been thoroughly Co cleaned and Prinifected (see page 15). Clean and disinfect the brooder and other equipment with the same Level Lye solution. Rinse metal surfaces with fresh, clean water after standing a few minutes. Allow to dry before putting in chicks. Purdue Extension Bulletin No. 173 (1933) recommends changing litter and cleaning and disinfecting brooder houses is east once is suspected. at least once a week while in use . . . twice a week if coccidiosis

3. Batterno Brooder Rooms. Treat same as recommended for brooder houses.

Range Shelters. should be placed on ground not used for chickens the previous year. Clean and disinfect reg n.Co ularly to protect the pullets and adult birds. Move frequently to clean ground free from droppings.

sinfect corners. Lewis' Lye cuts through dirt and filth to disinfect cracks and

Your Lye Source

- EssentialDepo EssentialDepu 5. Dropping Boards. Dropping boards are a source of disagreeable odor and an ideal haven for disease germs and parasites unless cleaned and disinfected frequently. Remove droppings, scrape, then scrub vigorously with Lewis' Lye solution. Then rinse with Lewis' Lye solution. This will remove odors and disinfect and destroy roundworm egge. This should be done at least twice a week.
- 6. Dropping Pits. Many modern poultry houses now have dropping pits instead of doards. The same principles of cleanliness and disinfection apply. Use Lewis' Lye solution freely.
- 7. Feeders and Fountains. Scrape, then scrub and mense these with Lewis' Lye solution. Let stand a few minutes, then rinse with fresh, clear water. Do this once or twice a week to help protect your birds.
- 8. Turkey Quarters. Recommendations for the care of Your Lye Sourfact, these disease-susceptible birds require eyes more frequent
 - 9. Poultry yards and runways. Where possible, poultry and their houses should be moved to ground not used for chickens the previous year. Whene permanent yards or runways must be used, plow the ground deeply. Where this is not possible, replace the top soil of runways with fresh soil not used for poultry the previous season. poultry the previous season.

CLEANING DIRTY EGGS

dirty or slightly dirty. Even under best farm management some eggs become soiled. Consumers prefer eggs and eggs and several cents more to be several cents more to be several cents. markets the wholesale price for dirty eggs is from 4c to 7c per dozen lower than the Mean egg price. About 50,000 cars of dirty eggs are produced every year. The poultry industry loses several millions of dollars annually from marketing dirtyco improperies Cleaned eggs.

Tests by E. M. Funk, University of Missouri Experiment or improperde cleaned eggs.

Station (reported in their Bulletin 394-1938) indicated that eggs, easily cleaned with 1% lye solution, kept equally as well

Remove lye "guesswork"—insist on Lewis' Lye. 940 2495 - Your Lye Source

Your Lye Source

in cold storage as unwashed clean eggs and sold for as high a price when marketed. Experienced egg candlers were unable to distinguish between lye-cleaned and unwashed clean eggs. Edible qualities were equally as good. Frozen eggs cleaned So than unwashed areas and significantly lower bacteria counts than unwashed eggs or eggs washed with water before breaking.

EssentialDepu

Lewis' Lye is particularly effective for cleaning eggs. It is extremely high test . . . a powerful cleaner and bactericide . . . is absolutely odorless.

How to Clean First prepare a 1% Lewis' Lye solution by co dissolving 2 rounded tablespoons of Level

Lye in Legental dissolving 2 rounded tablespoons of Legental Lye in Legental Lye in Legental dissolvent can of Lewis' Lye in 10 gallons of water. One gallon of solution is sufficient to clean ½ case of eggs. If the solution becomes very dirty, make up a clean solution. Prepage a fresh solution each time you wash eggs-do not keep it over from day to day. Use any convenient, shallow contained (except aluminum). Rinse container with fresh water after using.

then set in a wire basket or on a flat subtace for draining. The use of rubber gloves is recommended. Do not get the solution on the clothing or on painted the varnished surfaces.

One cents worth of Lewis' Lve

EssentialDepu

Egg Profits of Colore A fare miles than 1/10th cent per Co cents worth of Lewis' Lve will wash you an extra profit of several cents dozen, in higher prices, and give you clean eggs of which you will

be proud.

Cleaning eggs with Lewis' Lye is easy, inexpensive, profitable.



DAIRY USES FOR

EssentialDepu

LEWIS' LYE

Your Lye Source Experiment Station bulletins, agricultural authorities and daires papers are recommending lyentere each year for dairy bases, milk houses and milking machines. Dairymen are torning to Lewis' Lye in increasing numbers because they fire it offers an unusual combination of cleaning and disinfecting features of particular value to dairy farming.

disinfectants—is quickly turned to combine easily-rinsed soap by Lewis Lye. Lewis Lye cleans Lye. Lewis' Lye cleans as it disinfects and govice I amin't a suit of the contract of the cont is able to penetrate into cracks and convers. Cuts Butterfat Lewis' Lye solution costs only he per gallon. It can be used freely and often at very little expense.

Milk, cream, butter and cheese absorb odors quickly, taking on "off-flavors"—the enemy of bigger milk and cream checks and higher butter and cheese prices. Dairymen who have avoided "medical smeding" disinfectants for this reason, welcome the fact that Lewis' Lve has no odor and destroys foreign odors when it reaches their source.

The effectiveness of Lewis' Lye for killing So Disease) is described on page 5. After tests source A Powerful using Lewis' Lye, the University of Wisconsin Bulletin 421 states "It was found that a 1-150 solution in either hot or cold water are de as an efficient disinfectant when applied liberally too the floors, stanchions and walls of stables. A solution of this strength is easily prepared by dissolving one 13.02, can of lye in 15 gallons of water. Surfaces the early coastly with foreign material of any kind must be scraped and then thoroughly scrubbed with the lye solution. A coarse spray from either a hand or power sprayer gave satisfactory results when thus applied."

A regular sanitation program aids in preventing the spread of many dairy cattle diseases by contaminated surroundings. of many daily cattle diseases by contaminated surroundings.

A few dimes spent for sanitation may save hundreds of

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Your Lye Source

dollars ential Depor Once disease strikes a dairy herd it is advisable to consult a competent authority at once for curative measures.

Mastitis

Mastitis (also known as caked bag, or Sour Sectedly at any herd, tainting milk, throughing cows out of milking. Washington from the markage of the milking washington from the milking washing washing washington from the milking washi garget) is hard to detect and highly infec-Journal of Veterinary Research of olume 1, No. 1, October, 1940, show that a 1:300 lye solution kills Mastitis Streptococci organisms in 5 minutes Help protect your herd against infection

by contaminated surroundings and equipment, by cleaning and o then disinfective barn floors, stalls and milking machines with Lewis' I me solution. (See below and page 22.) Lewis' Lyne solution. (See below and page 22.)

Dairy cattle are extremely valuable. The Dairy Barns importance of having a clean barn and preventing contaminated surroundings from spreading disease Could be sourced the several times a year Scrape out a Borabed facility and other foreign and other fo and other foreign material, then sortib all surfaces with a solution of I can of Lewis Lye an 10 gallons of water. Follow up with a spray of the same solution, forcing the spray into cracks and other inaccessible places. Rinse painted surfaces with clear water to be not use wire brushes, as stray wires might be picked up by the animals. Rinse containers, sprayer brooms and brushes after using. Animals may be admitted to the premises 1 hour after treatment. Don't stiff on the Lewis' Lye solution, it costs only 1c per gallon.

Other Hints on Sanitation

Buy only cattle tested for contagious abortion and tuberculosis. Isolate new additions to your herd until you are sure they are not infected with any disease of If you suspect

contagious abortion or other disease in your herd, isolate the animals at once and consult your milk anspector, veterinarian or Dept. of Veterinary Medicine at your agricultural college.



Feed Troughs

Clean and disinfeg Co

feed troughs, water tanks and similar equipment once or twice a week by scrubbing with a on of Lewis stand a few minut with clear water. solution of 2 rounded tablespoons of Lewis' Lve to a gallon of water. Allow to stand a few minutes, then rinse

EssentialVere These are kept sweet-smelling and sanitary by flushing every few days with a bucket of hot water in which has been dissolved 5 rounded tablespoons of Lewis' Lye.

Gutters Drains Sinkpipe:

Dehorning

Hot Water

Calve

EssentialDepo

You We so Priversity of Wisconsin Bulletin 256 (1933) source in the milkhouse raises. Milkhouse is as good as lye." Lewis' Lye cleans quickly and kills many bacteria. It destroys the smello of spoiled milk and other objectionable odors when the reaches their source. It has no odor of its own to tain dairy products. Lewis' Lye does not injure concrete. When used on painted surfaces, rinse with Coclear water after a few minutes. To prepare solution, dissolve 2 rounded vablespoons of Lewis' Lye in each gallon of water.

Before refilling silos, clean and disinfect by Care of Silos scrubbing and spraying the inside with a your Lye Source Cattle solution of 1 can of Lewis' Lye in 10 gallons of water. This solution is odorless and the silage placed into the silo will not

be harmed by it.

Cattle with horns are a constant menage 18 the dairy herd. Their growth may be prevented easily and humanely With Lewis' Lye, and a better shaped head results.

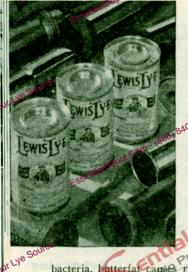
When the calf is 3 to days old clip the hair from around the horn buttons and apply vaseline to the hide, being careful, co not to get angen the button. Add 1/2 can of Lewis' Lye took cup of water; heat gently, stirring well. Fasten a prece of cotton or rag to a small stick and apply a little of this solution to each horn button, allowing to dry before applying again. Make 3 or 4 applications.

Everytime you use your water-cooled gas You We used for flushing separators, milking of Gas Engine machines and milk utensils, provided the water jacket is cleaned occasionally with Lewis' Lye. About once a month, before starting the engine, drain and refill the water jacket with a solution of 1/4 can of Lewis' Lye to each concket

(2½ gallons) of water. After the engine has been used once, drain the Solution, rinse the jacket and refill with clear water.

Lewis' Lye, the disinfectant that cuts through butter fat easily and Your Lye Source quickly.





MILKING MACHINES AND UTENSILS

EssentialLery

Milking machines have been widely adopted because they permit the progressive dairyman to peduce finer flavored milk of low bacteria count . . . at lower cost. To do so however, he must follow a regular method of cleane,o ing and disinfecting his millering machines . . . and this method must be quick and economical.

The rubber inflations and tubes are particularly difficult to keep sanitary as butter fat adhering to the inside surfaces cannot be removed efficiently by water or ordinary cleansers and in addition

bacteria, butterial causes rubber to offering a breeding place for bacteria. Lewis Lye is very effective for cleaning and disinfecting milking machine rubber bacause it: 1. cuts butterfat quickly; 2. is an effective backericide; 3. is a powerful cleanser; 4. is odorless, and destroys odors when it reaches their source; 5. is easy to dose; 6. costs less than 1/2c per gallon of solution. No othera cleaner or bactericide can offer these allearound advantages in one product.

The use of lye for milking machines is recommended by

Experiment Station bulletins and authorities.

Two Ways You Lye Solution to Prepare

1. Stock Solution Method. Dissolve 1 can of Lewis' Lve in 1 gallon of water. contained in an open creek or any metal container except alumnum. Do not dissolve lye in a jug or glass bottle. When

thoroughly dissolved, pour into a large bottle and keep tightly stoppered. Paste the Lewis Tye label on the bottle for safety. When ready to use, and about 6 oz. (about 1/3 pint) of stock solution to each gallon of water to obtain the working solution.

2. Direct Method. Some prefer to prepare a working soluto tion each write they disinfect milking machines, by dissolving 1 level tablespoon (1/2 oz.) of Lewis' Lye in each gallon of water.

How to Clean and Disinfect

Follow these directions each time, immediately after using the machine.

Draw 11/2 gallons of cold clean water through each unit while the the water. through each unit while the power is still

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(840) 840 2495

2. If the machine does not contain aluminum parts, draw 2 gallons of the Lewis' Lye working solution through each unit. If it does contain aluminum, use 1 oz. of B-K Washing Powder in 3 gallons of water for each unit.

Your Lye souther machine with a brush. Drain and place on rack to dry. are no air pockets in the tubesof Just before milking remove units, allowing solution to down back into crock. Then attach unit to pail and draw of brough fresh water or B-K solution according to manufacturer's directions. Change Lewis' Lye co working solution in crock once a week or oftener depending on condition of solution.

Racks Method. Place cups and tube in Pack singlar to one shown below, insuring that end of tube and teat cups are at same height. Fill with Lewis' Lye working solution. Allow this solution to remain in unit until next milking. Just before Your Lye Sourfacturer's directions. The rack method is the one preferred.

5. Periodically, as needed, disassemble machine parts with a parts. use drain out solution onto floor and attach units to pail and

6. At least once a month 495 place all rubber parts in a Lewis' Lye solution prepared by adding 1 pint of stock solution (20 1 gallon of water, or by adding 1 oz. of Lewis' Lye to 1 gallon gowater. Bring this solution to a boil, allow to cool, remove and then rinse thoroughly with water and assemble. This treatment will remove any

Gaution: Use an iron or an enamelware vessel, not crock for boiling rubbar.

Lewis' Lye working solution costs less than 1/2c a gallon, so prepare fresh solution each milking. Do not waste old solution . . . use it to keep drains free-flowing and sanitary, to clean and deodorize milk-house and barn floors, gutters, etc. Milk and cream cans, pails, strainers, pans, Dairy Utensil

bottles, crocks, churns, separator parts, etc., are kept sweet and sanitary by washing with a setting of 2 level tablespoons of Lewis' Lye in each gallon of warm water. Rancidity and sourness disappear and your milk containers

come out clean and bright with a little rubbing.

bors bacteria. To remove it, fill the con-940 2495 - Your Lye Source

Milkstone

tainer to be cleaned with boiling water and add 1 heaping tablespoon of Lewis' Lye for each gallon. Where possible, set on a hot stove. Allow to store 15 to 20 set on a hot stove. Allow to stand 15 to 20 minutes; then Scrup thoroughly with washing powder and rinse. Do remain too long in tinned containers. pour out. Remove softened milkstone with a stiff brush or steel

DISINFECTING INSTRUMENTS

Instruments used in the treatment and care of livestock, such as dehorning tools, vaccination instruments, blood sample needles and syringes, instruments for castration or for Co slitting ear onose tongs for restraining animals, etc. Dare dangerous sources of infection, unless properly cleaned and disinfected before use. Knives and other tools used for butchering also should be cleaned and disinfected to help avoid contamination and spoilage of meat.

Instruments may be cleaned and disinfected easily and inmade by dissolving 4 rounded tablespoons of Lewis' Lye in ber gloves will protect your hands

HORSE SANITATION

The same powerful Caning and disinfecting properties that make Lewis' Lycoffective for cattle, hog and poultry sanita-co tion, make it avaluable for helping to protect horses and muckes against the spread of disease by contaminated surroundings.

Scrape dirt and filth from stalls, stables, mangers, etc.; then scrub with a solution of 1 can of Lewis' Lye to 10 gallons of water. Spray walls and mangers with the same solution.

SHEEP SANITATION

out We source Sheep barns, pens, feeding troughs, etc., case be kept clean and sanitary by scraping free of dirt and fifth and then scrubbing with a solution of 1 can of Lewes Lye in 10 gallons of water. Lewis' Lye is low in cost and does a thorough job because it is a powerful cleaner as well as a disinfectant. Treat goat premises and equipment in the same way.

Dissolve 2 oz. of Lewis' Lye in 1 pint of water and slowly add 5 oz. of white arsenic. Heat if necessary and when the arsenic is dissolved, add 3 oz. of soda ash or washing soda, 6 oz. of rosin soap and 4 oz. of sulphur. Boil, strain and dilute the liquid with water to make 14 gallons of dip.

The flake form of Lewis' Lye pours freely. Your Lye Source

our Lye Source

EssentialDepo CARE OF DOGS

Dogs confined in kennels must be protected against the spread of Your We southminated premises and objects.

A solution of 1 can at Lewis' Lye in 10 gallons of hot water will kill roundworm kill roundworm eggs, flea larvae, distemper willis, and many other disease serms with which it comes in contact. Help protect your dogs by scrubbing the kennel and dishes with the above Lewis' Lye solution. Then spray, sprinkle or rinse

Your Lye Source I solate new dogs at least a week

For many years dog experts have used a Gleason's Dip, for treation of the state of Prepare an effective dip with Lewis' Lye as follows:

Sarcoptic Mange Dip

Bring & 10 gallons of soft water to a boil; then add can Lewis Lye and 5 lbs. flowers of sulphur. Boil can ll hour, stirring cto. of Lewis Lye and 5 lbs. flowers of sulphur. Boil gently for 1 full hour, stirring steadily to prevent the sulphur from sticking to the container and scorching. Pour the mixture into a 50 gallon barrel or any suitable rust-proof container. Chip up 4 bars of soap, dissolving in a bucket of hot water. Pour into the con-You Lye South is ready for use. tainer and add about 30 gallons of soft water. After cooling, of p is ready for use.

Grasp both hind feet of the dog with the left hand, passing

the right hand under the body and seizing the left foreleg. Lower the dog gently into the Parrel hind quarter first, then slip the left hand up and grasp front legs and with right hand under muzzle immerse to the root of the ears, being careful not to get solution on eyes or ears. This dip will be found to co have excellent realing properties in cuts or sores on the hands of the users

Dip dogs every week or 10 days until the sarcoptic mange condition is cleared up. For severe cases, dip twice a week at first.

Don't accept just "any lye"—demand John And 2495 - Your Lye Source Lewis'!

Your Lye Source

SOAPMAKING

EssentialDep

Pure homemade soap is a wonderful product. It is made with lye and fat or grease, which unite to make a neutral soan. Pure soap is an excellent cleanser and contains natural glycerin which is soothing to the skin. When correctly made, homemade soap is hard, white and smooth. Hothemade soap is much superior to many commercial soaps because the glycerin in homemade soap has not been extracted and no weight-making fillers have been added to 840

The quality of homemade soap, as with cooking, depends on the ingredients and the care of preparation. Naturally Co good soap cannot be made from dirty, rancid fats. Novecan good results be expected from inferior or impure lye, because

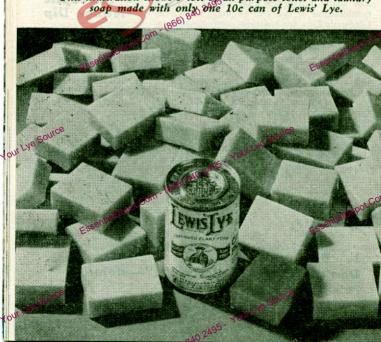
lye is extremely important in soapmaking.

Essentialvero

Lewis' Lye has been known as the Prize Soapmaker for three generations. Lewis' Lye is high quality and dependable. Take no chances with substitutes.

There's a difference in lye-demand This illustration shows 9 lbs. of all-purpose toilet and laundry

our Lye Source



(866)

There is nothing difficult or tiresome about making a batch of soap the Lewis' Lye way. Six pounds of waste cooking grease and fat from meat scraps, a can of Lewis' Lye, and

EssentialDepo

Easy as Making a Cake

EssentialLepu

Your We south fine all-purpose soap at a cost of less of an one cent per LARGE bar. A thrifty housewife can save many dollars a year on her soap bill by making fine soap with Lewis' Lye. This saving will pay for extra gas office, clothing, entertainment or other luxuries. Why not make this easy saving?

> You must have fat or grease to make soap; Fatsoor it cannot backade from lean meat scraps. Grease to Use that have no cooking value, such as meat fryings, cracklings, meat trimmings and other refuse fat can be used. Certain vegetable oils are sometimes used. Mineral

oil or mineral grease will not make soap

Good soap requires fats that are free from Preparing Fat dirt, rancidity, lean meat, salt and others impurities. Fats may be grouped in three classes:

CLASS 1-Fat rendered from callows, meat trimmings, rinds

and other meat scraps. This ofat is ready for soap.

CLASS 2-Meat freeings and other refuse fats. This class of fat should be washed as follows: Add an equal amount of co water and bring it to the boiling point. Remove from fire, stip add cold water (1 gt. to 1 gal. of the hot liquid). The cold water precipitates foreign substances. The clean fat comes to the top. Remove the fat when firm.

NOTE: Some fats require a second washing. Wash a very rancid fat at least twice.

CLASS 3—Cracklings. For Pressed @acklings, remove fat follows: as follows:

- 1. To every four pounds or page gallon of Pressed Cracklings add one level tablespoon of Lewis' Lye and water to twice the depth of the cracklings.

3. Remove from fire and when it stops boiling pour cold

Treat Unpressed Cracklings the same as Pressed Cracklings, except use one level teaspoon of Lewis' Lye instead of one tablespoon, to four pounds of cracklings.

NOTE: Sixteen pounds of cracklings (approximately four gallons) can be boiled at one time. Remove fat from the soap.

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27

(360)

(360)

Easy Lewis' Lye Recipe

To make 9 pounds of pure, hard, smooth soap suitable for toilet, laundry or soap flakes, follow this simple recipe:

EssentialDer

EssentialDepe

can Lewis' Lye pints cold water pounds clear pounds clean fat (tallow or lard or some combination of tallow and lard) (Six pounds of fat is about 634 pints on 131/2 standard measuring cups of lightly fat.)

tainer). Stir until disserved and let cool to correct temperature. (See temperature chart below). Melt fat to clear liquid and co let cool gradually to correct temperature (see chart) or until the fat offers resistance to the spoon. Stir from time to time to prevent the crystals of fat reforming. Pour the Ewis' Lye solution into the fat in a thin, steady, stream with slow, even stirring. (Rapid addition of lye solution or hard stirring is liable to cause a separation). A honey-like texture is formed out We south at has been soaked in water and lined with clean cotton cloth pan. Cover with which in about 10 or 20 minutes becomes thick with all the lye blanket to retain the heat while it is texturing out. Let it remain undisturbed for 24 lookrs—then cut and lift from mold.

To remove the soap from the mold, lift it by the ends of the overhanging cotton lining. Cut into bars by wrapping the soap once with a fine wire or string, crossing ends and pulling. Place soap so air can reach it, but avoid drafts and cold. Soad protected from drafts and cold lathers better. In 10 48 14 days it is ready for use. Aging improves soap. Note: Do not let

soap freeze during the first two weeks.

Temperature Chart your Lye Source

Correct temperatures are extremely important for making the finest soap. Follow these temperatures closely, Use a dairy

or floating thermometers Temperature of Type of Fat Lye Solution 75° F. to 80° F. 70° F. to 75° F.

greasy, set it in a pan of cold water and continue stirring until thick, when it is ready to pour. If temperatures are too low, lumpself soap will form and separation will occuse. In that case, set the mixture in a pan of warm water and stir gently until it is of the right consistency, and all the lye is reincorporated. NOTE: Avoid hardening of the mixture on the sides and bottom of the pan.

Separation

If too cold or too hot a temperature is used, or soap is too vigoroush or not thoroughly

28 you Lyo

(800) 840 2495

Essentialvere EssentialDepu mixed, a separation may occur. A separation may also result from using exceedingly rancid fat, or fat containing salt. Greasy soap forms at the top while liquid settles at the bottom.

Your We sould be that has separated out (never throw about away) and about five pints of

with gentle heat and occasional Stirring. Then raise the heat and boil gently. It should become thick and syrupy. If it does not add more water, one pint at a time, and continue boiling until it becomes ropy and hairy when dropped from the spoon. Pour into mold and cover.

NOTE: De not be afraid of adding too much water bookise can be boiled off.

it can be boiled off.

VARIATIONS IN SOAPMAKING

In addition to pure all-purpose soap, many other kinds of attractive and useful soap can be made in the home. The Your Lye Sour and yet enjoy all the laxury and efficiency of dozens of types

Almost any type of Source Sou

Almost any type of soap can be wade to Floating Soa float. When the soap mixtore is thick

oils are recommended, preferably the synthetic imitation: Sassafras (4 tsp.);
Lavender (2 tsp.); Citronella (2 tsp.); Lemon (1 tsp.); Cloves (1 tsp.); Almond (1 tsp.); Rose

Geranium (1/2 tsp.). Your druggist can supply or secure coloring ingredients

for you. Never use perfumes or colors containing alcohol;

you. Never use perfumes or colors they will fade and may cause separation.

A tea made with leaves of rose perfume, and may A tea made with leaves of rose geranian gives a delightful perfume, and may be colored or not as You like by adding the extract of blossoms of pink roses of tulips. A green color can be had by pounding the tops 2495

beets to extract a few drops of the juice — and addon'in the water.

All soapeopereadily absorbs

odors, can be inexpensively perfumed by placing with it the leaves of a favorite flower or other perfume, if perfume has not been added previously to

Your Lye Sour mooth, hard soap at 1c per bar.



EssentialDep EssentialUer the mixture. By supplying the perfume and coloring from the home garden, luxurious toilet soaps can be made at very low cost, saving several more dollars in the family budget.

Borax

Borax quickens the sudsing action of soap. Two tablespoons dissolved in the Lewis' south Soap Flakes. It is an easy matter and in the Lewis' south of the levis' south of the levis south of the le

Chips. Powder and chips with Lewis' Lye soap. Rub threeday old soap over a soap chipper or vegetable shredder. Stir occasionally while drying. To make powder, first flake or chip the

soap and dry in worm oven (150° F.). When thoroughly dry or Co pulverize it, soap containing borax makes quick sudsing powder.

HOMEMADE SOAP MADE THE MODERS WAY SHOULD SATISFY THE MOST FASTIDIOUS.

HOW SOAPMAKING PAYS

Your We so the money saved by home soaputaking as follows: She purchased 4 brands of laundry soap and found them.

The tojler soap saving is even larger. Seven brands averaged 352 oz. at a cost of 8c per bar. Based on 2 Bars per week, a year's supply would weigh 223/4 lbs, and cost \$8.32 at the store. This amount of toilet soap can be made at home with Lewis' Lye for approximately 35c including perfume and coloring. The toilet soap saving would be \$7.97. The combined laundry and toilet soap saving would be \$13.56. Think The company source of the many things you could buy with this who never by using your waste grease and a little extraction and using your waste grease and a little extractime and effort!

OTHER SOAP RECIPES

1. Hard White Soap From Cracklings. Combine 2 gallons water and 3 cans of Lewis' Lye. Allow to cool an hour or more. Place on cove and add 15 pounds of fat scraps. Allows: to boil until every scrap is dissolved. Add a total a total gallons shore water, adding only enough at once tosteep the product from boiling over. Set to cool until next day. Skim solid substance from the surface. Place it in clean kettle and boil 2 hours. Add boiling water until soap becomes the consistency of honey when dropped from a stirring stick. If

Our Lye Source Quality pays—insist on Lewis' Lye

EssentialDepo Essentialvero too much water is added, boiling will need to be prolonged. Pour into molds. Cover while cooling.

- Rosin Soap. Rosin added to soap increases its lathering properties but makes a darker and softer soap. It is frequently your we spounds of clean fat and raise the temperature until the rosin is melled or dissolved in the fat Cool that until the rosin is and add the lye solution made by dissolving 1 can of Lewis' Lye in 2½ pints of water and cooling to 90° F. If soap containing more rosin is designed, for every 8 ounces of rosin added decrease the amount of fat used by 8 ounces. The total weight of rosin and fat should be 6 pounds for each can of Lye.
 - 3. Hardwood by the Boiling Process. Prepare as shown on arm place over the pour into molds. Keep control of the page 28 but do not pour into molds. Keep covered and set in a warm place over night. Next day cut into fine shavings, add 7 pints of water and melt with gentle heat and occasional stirring. When all lumps are dissolved raise the heat and continue boiling until of a syrupy nature when dropped off of the spoon or paddle. Then pour into molds. Boiling Process Soaps require more aging than Gold Process Soaps. Perfumes, colors and other special materials are added after the soap has cooled somewhat, but while it is still found enough for pouring.
 - 4. All Tallow Soap. One can of Lewis' Lye; mutton or beef tallow 6 pounds; water 234 pints; lye solution 90° F.; fat 130° F. All-tallow soap is often referred to as "saddle soap" because it is valuable as a cleaner and preserver of leather of Co Substitution of I b. of tallow with lard, cocoanut or olign will improve the lathering properties.
 - 5. Cocoanut Oil Soap. One can of Lewis' Lye; cocoanut oil 4½ pounds; water 2½ pints; lye solution 70° F.; oil 110° F. This soap gives a very profuse but thin lather. Substitute tallow or lard for part of this oil for thicker lather.
- Your Lye South Ces of Glycerine to any soap shortly after the lye solution has been added.
 - A very high grade soap which 2495 Your Lye Castile Soap can be made as follows: Olive of 24 ounces; tallow (good grade) 38 ounces: cocoanat oil 24 ounces; fats 90° F.; 1 can of Lewis' Lye; water 2 pints. Cooled to 90° F.

Making soap with Lewis' Lye is as Your Lye Source easy as making a cake.

10ch 2495 - Your Lye Source

Cottonseed Oil Soap. One can of Lewis' Lye; cottonseed oil 5% pounds; water 3 pints; lye solution 135° F.; oil 135° F. This oil is a little more difficult to saponify and lye should be added in small portions at a time, obtaining complete saponification before the further addition of lye. The resulting product will be a rather soft soap. For harden soap substitute part of the cottonseed oil with tallow. (See "Liquid Soap.")

EssentialDer

9. Fish Oil Soap. One can of Lewis' Lye; fish oil 41/2 pounds; water 3 pints; A solution 80° F.; oil 100° F. Stir well for about 10 minutes and then allow to stand with occasional stirring until combination is complete, then transfer to the molds of his soap is used as a basis for sprays for use as insecticities and fungicides.

18. Linseed Oil Soap. One can of Dewis' Linseed oil

5% pounds; water 4 pints; lye solution 90° F.; oil 100° F Add lye solution in small quantities at a time and get good combination before further addition. This makes a soft soap

Recommended for washing automobiles and furniture.

Tar Soap. A lard or tallow soap is made up in the regular manner and allowed to stand with occasional stirring until it has become quite thick. Eight ounces of wood tar is then added and worked in. Stir and beat the mass thoroughly to prevent small lumps from forming.

12. Lewis' Abrasive Soap. Follow recipe for making soap page 28. When mixture thickens add, gradually, 5 to 6 lbs. of pumice stone Cemery dust or Tripoli powder and stir until the

mixture in thoroughly blended or all the lye incorporated Pour into a fill and cover. Yield: 14 to 15 lbs.

13. Lewis' Abrasive Soap Paste. A fine soap for household scouring and for mechanics' hands. Shave 3 lbs. home-made soap and melt it in three pints of water. Add 3 ounces of light mineral oil. When this is thoroughly blended allow it to coo to a thick consistency and work in 5 lbs. of pumice stone or Tripoli powder. Keep tightly covered to prevent paste drying out. Yield: 11 lbs.

Jelly Soap. For use in washing machines and for wash ing dishes, Lewis' Lye hard soap converted into Jelly Soar is convenient and economical to use. Cut 1 pound of hard soar into fine shavings and add 1 gallon of water. Boil for abou 10 minutes then transfer to a suitable vessel to cool. Keep covered to prevent drying out. Jelly Soap melts in hot water immedia off and makes thick suds.

Liquid Soap. Cottonseed oil 4 pounds; cocsanut oil 14

pounds; glycerine 3 pints; alcohol 6½ pints; water seven pints Dissolve 1 can of Lewis' Lye in a mixture of 3½ pints each of alcohol and water and heat to 125°F. Have the oils at 150 F. and add a few ounces of the lye solution, stirring slowly an

The better the lye, the better the soap—use Lewis' south

3840 2495

EssentialDepo

Your Lye Source

EssentialDepo When saponification is about complete, add a few ounces of lye solution with continued stirring and repeat until all the lye solution is in. Cottonseed oil is sometimes rather hard to saponify, i.e., to make it unite with the lye, and slight lve has been added too rapidly. In this case, allow it to stand is obtained with no separation of oil add the aperfect mixture remaining alcohol and water. Allow to stand for a couple of days and if any sediment settles out, filter or syphon off the clear liquid. Then color and perfume as desired.

New on aluminum utensits (lye activity pon table and for lease of soap, enameled or resistance of soap. them) Es For small batches of soap, enameled or granite ware is suitable and for larger batches, an iron kettle may be used.

All grease should be pure and clean to obtain soap with

a clean, wholesome odor.

Measure accurately. Be careful about temperatures.

soap help it little, if any, as the lye usually neutralizes them. They increase cost and may make soap harsh on skin.

5. Coldness makes a hard, bottle soap.

6. Excess lye makes a warse, flinty soap that will crumble when shaved. Soap should have a smooth, velvety texture that curls when shavedoult should not bite the tongue when aged co

7. Use the all-purpose soap for toilet soap, a shampoon or washingsprints, lingerie, hose and other delicate fabries?

The following fats (for soapmaking) are listed in the order of their desirability: Tallow, lard, and their combinations, olive oil, other vegetable oils. Mineral oils will not make soap.

9. Poultry fat should be combined with other fats, as soap

You Lye source 10. Aging always improves soap. Soap swife from lard or soap that has been boiled requires longer aging from lard or comes band and soap that has been boiled requires longere aging before it becomes hard and ready for use.

11. Instead of storing rinds and meats scraps, extract the fat; store in a tightly covered container in a cool, dry place.

Make the fat into soap as it accumulates and let the soap age rather than allow the fat to get too old and rancids

13. There need never be a failure in soapmaking. aration soccurs, it can be reclaimed (see page 29). Essekhalep-

Where you find your grease has become rancid or contains materials other than fats, boil in large quantity of water, the famous Lewis' Lye, allow to cool, skim off grease, and then follow the directions as shown on the Lewis' Lye can. Take no chances, but demand 2495 - Your Lye Source

EssentialDepu

LAUNDRY MADE EASY Any woman who has toiled over a hot wash tub . . . trying out We source a large washing, only to find the white things still a dingy some women have transported in the came washing and extra help she came washing to rub out to work up heavy suds with hard water . . . trying to rub out some women have turned to expensive water softeners, bleaches, costly soap chips and powders

Many resourceful women however, have learned from their mothers or from experience that the easy, inexpensive way to help build up soap ands, dissolve grease, loosen dirt, and whiten clothes is to add a little Lewis' Lye to the wash water. Que woman, two cal of thousands, writes "I would not stand my wasks without Lewis' Lye." If you are not satisfied with the way your washing is going, yet do not want to run up a big laundry supply bill at the store, try a little Lewis' Lye in your next wash.

Directions. In each bucket of water dissolve 1/2 teaspoon of Lewis' Lye. Rub soiled clothes with soap and soak over night.

Cleaning Working Clothes

overalls naturally need a little extra help in washing of These are easily cleaned by adding thile more Lewis' Lye than indicated above, the amount depending on the

type and amount of soil. Experiment with your menfolks working clothes until you find how little added Lewis' Loco will do the 90b . . . the add that amount every time year wash those southes.

REMOVING PRINTING FROM BAGS

Thrifty housewives make aprons, dresses, dish towels, curtains and other useful articles from flour, feed and other cloth Cloth may be dyed in deep, lasting colors. After removing your regular washing from the tub, soak the bags a few minutes

in the wash water. Then, leaving just enough water to cover the bags, slowly add ½ teaspoon of Lewis' Lye, stirring to insure it dissolves instantly. Boil 1/2 hour, then rinse bags in fresh warm water and rub thoroughly with seep. printing will disappear unless printed with a very resistant type of coloring. Such bags

> Lewis' Lye is the hidden helper at wasi 10 French 2495 - Your Lye Source the wash tub.

EssentialDepu require a larger amount of Lewis' Lye added to the wash water. The amount of Lewis' Lye required for various brands of bags is soon determined.

SOFTENING WATER

Your Lye Source Relatively few homes are blessed with plenty of real soft water. Every housewife knows sold water makes soap go twice as far, lightens all kinds of washing and scrubbing, does a better job of cleaning, and is gentler on the hands and face and in the bath and for shampooing the hair. Thousands of women have found that they can remove "temporary hardness" in water easily for about 1/15th cent per bucket with Lewis' Lyes Why put we with hard water if you can soften it this cheeply. Don't sent on soft water if your cistern & runnings ow—use Lewis' Lye. If your rain water is discolored, switch to Lewis' Lye-softened water. This simple test will show the results Lewis' Lye will get from your local water of

Your Lye sources. Place 5 gallons in a tubund add 1 cipitate or control Lewis Lye Let stand 25 ource How to Test level teaspoon of Lewis Let Stand, over night. The precipitate or powder you see next monoing floating on the water or settled to the bottom of tube is the "temporary hardness"

removed by Lewis' Lye. If no precipitate appears your water contains "permanent haveness" which cannot be softened with

Remove a small amount of the softened water and try to Co make a suds with your soap. If curds form, not all the hardness has been removed and more Lewis' Lye is required After a few tests you will find the minimum amount of Lewis' Lye resulting in water that will not make curds when soap is added. Once this amount is determined for your local water, simply add that amount every time you soften water. When properly tested, and no excess lye added, the lye is neutralized by the hardness in the water, and the softened water, will be as harm-

To every 5 gallons of water add, the required How to Soften amount of Lewis' Lye as Adetermined by

above test. Cold water requires 3 or 4 hours to woften, hot water (not boiling) only 5 or 10 minutesal Stirring hastens precipitation. If the precipitate floats to the top, skim it off; if it settles to the bottom, draw off the clear water.

Lewis' Lye softens water easily and at low cost.

SOFT WATER

John 2495 - Your Lye Source

HOUSEHOLD USES EsseniialDeliu

expensive soaps, soap flakes and powders, cleansers, liquid bleaches and similar products. Dimes spent for go as far as dollars spent for

can cover a great deal of ground-yet is tractable and harmless

when guided by someone who knows how.

EssentialDepu

In the "boom days of following the World War some of us learned to spendomoney a bit too lavishly. We paid more fogo new things chan for old reliable articles which would do the job justias well or better. So it was with household products. Many shrewd housewives are now returning to the time-proven friends. They are again cleaning their drains with Lewis' Lye at half the cost. Lewis' Lye is cutting their soap and cleanser bills in two. These and similar savings in the housewife's budget are adding up to many dollars yearly—which is being spent for articles previously gone without.

Your Lye Source If Lewis' Lye does not have an important place in your household program it will pay you to try it for the many uses shown here and elsewhere in this booklet. Remember, Lewis Lye costs only 10c a can, yet does much more work—often better than many products costing a great deal more.

All cleaning is inwined to be hard on the hands. If your skin is sensitive opfotect your hands with rubber gloves when doing heavy obtaining. Lewis' Lye does not injure rubber poor

Scrubbing

When scrubbing unpainted wood floors, shelves, cupboards, drain boards, tile and terrazzo floors, Lewis' Lye is a great help. It dissolves grease like nothing else can, and loosens dirt and grime. Lewis' Lye partly bleaches the bare wood, helping to give it a clean, lighter add a little more Lewis' Lye. Do not use this solution on painted or varnished surfaces.

Dishes

saucoparof water and scrub or brush on the soft face until it is clean and gleaming.
Then flush down the drain and rinse the surface with clear water

Wasternia Disher.

dishwater and causes streaks to appear on glassware and china. Because Lewis' Lve has the remarkable ability to convert grease

into soap, it helps counteract grease in dishwashing, keeping up suds, keeping down grease smears. Add I level teaspoon of Your Lye Source Lewis' Lye to a dishpan of hot water before adding soap.

Glass is inclined to streak when washed, Windows and unless expensive sprays or powders are unless expensive sprays or powders are used. Try adding I teaspoon of Lewis' Lye Your Lye South Pots, pans, kettles, roasters and mirrors at lowe cleaning cost.

ing pans often are not completely fixed of grease and food odors by ordinary washing. Grease and odors may be removed entirely

by filling utensils (not aluminum) with water and adding 1 teaspoon of Lewis OLye for each quart. Boil a few minutes; Co

The best cook occasionally has a cooking® utensil scorch or stick. The worst foods scorched utensil can be cleaned by Lewis' Lye. Add enough water to cover the burnto portion in the utensil (not aluminum) and add 1 tablespoon

Your Lye so material and then wash in the usual manner.

Glass and glazed earthen ware are made clean and sweet and free from prease streaks by rinsing thoroughly with a solution of 1 tablespoon of Lewis Lye in each quart of water used. Where sediment is caked in bottom, allow the Co

solution to stand until the sediment is loosened. Drain out the solution and rinse with clear, hot water.

As food-particularly dairy products and meat - absorbs odors, refrigerators - both electric and ice types—should be kept spotlessly clean. Lewis' Lye has the power to dissolve grease and remove odors when it reaches their source. Dissolve ½ teaspoon of Lewis' Lye in a gallon of hot water. Wash the inside surfaces thoroughly. For ice refrigerators, pour some of the solution down the drain. A sanitary refrigerator helps safeguard family health.

A yellow gas flame caused 2005 clogged burners means wasted gas and improper heating. Burners (unless of aluminum) should be boiled in a solution of tablespoons of Lewis' Love in a gallon of water. This will remove accumulated carbon, boiled-over food and restore the moneysaving clear blue flame.

Lewis' Lye Cleans and Disinfects Your Lye Source Garbage Cans.

Cooking Utensils

> Burned-in Utensils

Bottles, Crocks, Jars

Reirigerators

Gas Stove Burners



EssentialDep Cleaning Stoves

Tops of wood, coal and other kinds of stoves accumulate black grease stains. Lewis' Lye removes these stains easily. Dissolve 1 tablespoon of Lewis' Lye in 2 quarts of

water. Scrub with old brush. Rinse.

When these become fouled with soot or Lamp Burners boiled-over food, their effectiveness is tion of 2 tablespoons of Lewis Lye in a

gallon of water.

Garbage Cans Garbage cans are a source of annoyange to careful housewives—particularly during hot weather when they are likely to give off objectionable odors and attract flies. Lewis' Lye cuts through the grease, grime and decayed matter to reach the source of odors, destroying them makes it easy to keep cans sanitary. Dissolve 2 tablespoons of Lewis' Lye in each gallon of water and scrub can and cover thoroughly. Let stand 40 minutes, then scrub again.

Your Lye Source Why pay high prices for special bowl Toilet Bowls cleaners when lowers Lye will remove odors and stains in your foilet for a fraction of the cost. Slowly shake a tablespoon or two of Lewis' Lye into the bowl. Allow to dissolve; then rub the water over the entire interior with a long handled brush or swab; then flush.

Slop Jars

Slop jars are kept sanitary and odorless by scrubbing with a solution of 2 stablespoons of Lewis' Lve to a gallon of water.

Musty Cellars Damp cellars are apt to get musty and derounded tablespoons of Lewis' Lye in a bucket of using an old broom or brush. This solution is an element walls cleaner, will remove a brush. cleaner, will remove objectionable whistiness and odors when it reaches their source, and will destroy mildew or bacteria with which it comes in contact. This is an easy, inexpensive

way to make your gellar clean and sanitary.

Cement gradom Brick entialD Porches, Steps, Sidewalks

These present rough surfaces and cracks that are not easy to keep clean, sanitary and stainless with ordinary soap and water. Add 4 rounded tablespoons of Lewis' Lye to a bucket of water. Scrub briskly with an old broom or brush. The solution will cut through grease and grime, remove mildew.

You Lye Sourcea fresh whitened appearance. penetrate the rough surfaces and cracks, and give the cement Carry 240 2495 - Your Live Source

Essentiallero CLEANING DRAINS

You wouldn't think of allowing the porcelain surface of your sinks and bathtubs to remain covered with grease and dirt. As a good housekeeper, you keep them spotless and You We source of objectionable odors . . and the your way and a

Drain sluggishness is caused by grease from the skin, dishes, etc., forming on the inside of the pipes. This grease gathers ill-smelling matter, as well as hair and lint, until the pipe opening gets smaller and smaller. As Lewis' Lye has the copower to change grease into soap, it is an ideal drain cleaner of The soap waickly dissolves in the water in the drain and passes fown the pipe. Lewis' Lye also eats up the hair and lint and destroys the odors of foreign materials in the pipes. Lewis' Lye has been cleaning drains efficiently and economically for 3 generations.

Many housewives have formed the regular Lewis' Lye habit, adding Lewis' Lye to all drains at least once a week. It only takes a minute and quickly becomes a part of their cleaning routine. The whole family appreciates quick-emptying, sani-tary drains.

tary drains.

Lewis' Lye is odorless and does not cause cleans Drains at Half Cost 13 oz. can, it cleans drams at half cost.
Put 3 tablespoons of fast-working Lewis'

How toobse Lye on the drain sieve and flush into the pipe with 11/2 cups of hot water. Allow to remain 5 minutes. then flush with more water. Do this every cleaning day-

at least once a week.

If you have waited until the drain has become extremely sluggish before using Lewis' Lye, it may be necessary to repeat the above treatment. In such cases the use of a You We Soliton in the drain pipe, causing the stopping to be removed more quickly.

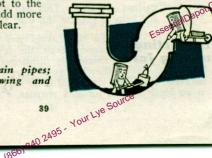
When drain pipes become frozen remove as much water as possible from the top of the pipe and slowly shake in enough Lewis'

Lye to make drain offot to the touch. As pipe wools add more Lewis' Lycumtil it is clear.

Lewis' Lye cleans drain pipes; Keeps them free-flowing and sanitary.

Thawing

EssentialDepu



FOOD USES

Hominy

EssentialDepu

Hominy made in the home from locally produced corn is becoming increasingly popular.

Essentialuepu

work with the served in several delicious ways and is a welcome addition to any meal. While any type of communication is a welcome addition to white dent corn with a broadokernel is best suited. Use either old or new corn, but old worn requires longer treatment in the Lewis' Lye solution (6) remove the hull.

To Prepare Pissolve 1 can of Lewis' Lye in 61/2 gallons 60 water; added quarts of corn. Heat the water, keeping Of Just belowe the boiling point until the hulls have started to loosen. Remove the hulls and scum from the water, adding fresh water occasionally during the heating. Finally stir up the corn well and transfer to clean, cold water. Bub the corn, changing the tree from hulls. Placing the corn is thoroughly cleansed and churn, if available, will permit the hulls to be removed easier than by hand rubbing. Finally soak the corn in cold overnight. Then wash

Removing Fruit Skins

Remover the skin of peaches, pears, plums and similar fruit the way professional can-ters do—use Lewis' Lye. You will find this a great improvement over hand-peeling of it saves at the makes better looking canned fruit and saves

mucheof the fruit otherwise thrown away with the peeling.

Directions. Dissolve 1 can of Lewis' Lye in 2 gallons of water (do not use aluminum container) and bring to a boil. Place the fruit in a wire basket (a thin cloth may be used) You've source may now be washed or rubbed from the first. As green fruit may require more than 30 seconds, and very ripe from try a small question. to dip that lot of fruit for best results.

After removing peetings, rinse fruit in clear water, then dip in a solution of 4 tablespoons of salt and 4 tablespoons of vine-gar in 2 gallors of water. This will neutralize any lye of the remains and help to prevent the fruit from darkening of

Disinfecting Canning Jars canned foods, the jars or bottles must be thoroughly disinfected to destroy bacteria. Lewis' Lye is a powerful bactericide. It is

odorless, leaves no taste, and is an excellent cleaner-making Your Lye Source it an ideal product for this purpose. No boiling of jars or 40

bottles is necessary. Dissolve 4 tablespoons of Lewis' Lye to each gallon of water. Rinse jars thoroughly with the Lewis' Lye solution. Then rinse with clear scalding water.

Home-prepared pretzels offer a delicious, Pretzels family menu. Make a dough of 41/4 lb. flood 1 oz. fat, 2 teaspoons salt, 1/2 oz. yeast, using water for the liquid. Let dough stand 20 minutes, then form into pretzels or pretzel sticks. Let dry 30 seconds, then place in a 2 of ution of 2 level tablespoons of Lewis' Lye in a gallon water which has been brought to a boil. Remove pretzels as soon as they float, sprinkle with coarse salt and bake in a 700° oven for 2½ minutes. Place in a drien co

Soak the lutfisk in cold water for one week changing the water every morning. For each 4 or 5 lbs. of lutfisk being prepared, measure out 1 teaspoon of Lewis' Lye and dissolve in just enough water to cover the fish well. Soak the fish in the Lewis' Lye solution 3 or 4 days. Remove the fish and soak it in clear water 3 or days, changing the water each morning. Keep the fish in a cool place during the entire treatment.

To cook lutfisk, place in a stoth bag and set in a pan or kettle. Pour boiling water over it and continue boiling for 5 minutes, adding salt to taste. Remove and serve on a platter with brown meltedroutter or cream sauce.

MAKING PASTI Essential Depot. Con

MAKING PASTE

Professional bill posters and paper hangers know the value of Lewis' Lye for making excellent paste cheaply. Dissolve jato 1 pint of water, stirring steadily to prevent lumps form-until it thickens into a past. same proportion.

KILLING TREES

Trees may be killed quickly and easily as follows: Dissolve 2 cans of Pewis' Lye and 1 lb. of white arsenic in 1 golfon of water. Mix thoroughly and allow to stand a day of two. Cut a ring around the trunk by downward strokes of an ax. When the ax is withdrawn, a groove or trough is left. Pour the solution in this trough, distributing it equally all around the trunk. The solution is drawn into the root system, killing the Josh 2495 - Your Lye Source tree in a day or two.

Essentialvery EssentialDepe **FUR FARM SANITATION**

Every fur farmer knows the constant threat of disease and consin points. As F. B. Hadley of the University of Wiscan Fur Breeder, "One part of lye to Eth parts of warders been found to be an effect." parasites, which are spread by contaminated surroundings, use on the fur farm. . . . Besides acting as a disinfectant, lye solution is capable of saponarying fats, of dissolving mucus and of penetrating caked fecal material, so is the best cleaning agent available for these purposes."

Scrape out off and fifth from kennels and nest boxes; then scrub and pray them with a solution of 1 can of Lewis Lye in 10 sellons of water. Scrub feeding and drinking containers with the same Lewis' Lye solution. Some fur farmers do not disinfect during the priming period to avoid injury to fur.

Rabbits

The above directions for fur farm sanitation may be used to good advantage in the cleaning and disinfection of rabbit premises and equipment.

CONTROLLING PESTS

Your Lye Source Rats and Mice Rats eat and destroy millions of dollars of grain and property on farms. City homes, too, feel the waste and musance caused by rats and mice. Down through history rate have been spreaders of disease. In addition to human disease, livestock and poultry epidemics have been tracedoto rats carrying disease germs from farm to farm.

Thousands of people use Lewis' Lye to help rid promises of rats If you are troubled with rats, try this simple plan:

Find the holes through which rats enter the building, pour a can of Lewis' Lye down each hole, stopping up the opening with the can or suitable object. Lewis' Lye burns the feet and nose of the rats, causing them to leave the premises.

Your Lye Soul Moles J. J. Davis, Chief in Entomology, Purdue University, writes: "Int^Cour tests and observations, we have found that lyans useful in controlling moles." Purdue Experiment Station directions for using lye for moles are: "The mole run ways should be opened with the finger or a small stickwand a teaspoon . . . inserted, after which the openings should be carefully closed. Applications should be made at intervals of 10 or 15 feet along the visible runways and should be repeated whenever sections of old runways show signs of being in use or when new ones appear." Use dependable, high test Lewis' Lye.

STORES, HOTELS, INSTITUTIONS

Places where food and confections are kept or prepared will find Lewis' Lye of great value as a disinfectant. With their waste cooking grease they can make large quantities of soap.

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Your Lye Source waste cooking grease they can make large quantities of soap.

EssentialDepu Many dollars can be saved in cleaning and laundry supply bills. Hotels and institutions with their many drains and washrooms will find Lewis' Lye the most economical way to keep Your Lyes on hand at all times. drains, toilet bowls, urinals clean and sanitary. It will pay managers to study this booklet, file it for ready reference, and

Farmers find a solution of 1 case of Lewis' Lye to 1 gallon of water very effective in deaning up grimy or rusty farm tools and machinery. It beins polish up plows for easier pulling. Scrub with an o'll brush, broom or rag on a stick. Use plenty of solution. Rinse with clear water. Keep solution of solution. your handsound clothing. To remove paint see page 46 ontil

TRACTOR AND AUTO RADIATORS

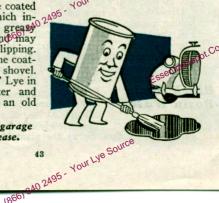
As the water in radiators evaporates it leaves behind a layer of scale and foreign matter which reduces the cooling efficiency and water circulation and may result in an overheated engine or a radiator repair or replacement bill. The use of soft Your Lye every month or two to remove this scale and sediment with Lewis' Lye. Dissolve 1 can of high test Lewis' Lye in each 5 gallons of soft water. Empty the radiator and refill with this solution. After about 50 hours of engine operation, drain the radiator and refill with clear water. NOTE. Some automobiles have aluminim cylinder heads; this should be determined, as lye should not be used with aluminum.

> Tractor oil filters get very dirty; to protect the engine they should be cleaned frequently. If the filter element is made entirely of metal, place in a solution of 1 can of Lewis' Lye in 1 gallon of water and boil for 30 minutes. Remove, rinse thoroughly with hot water, then with gasoline or kerosene before replacing in engine.

GARAGE FLOORS

Your Lye Source with grease and oil which in-jure rubber tires. This grease 22,095 condition soils show a 1800 condition soils cause an injury from slipping. Scrape off as much of the coating as possible with a shovel. Dissolve T can of Lewis' Lye in half a bucket of water and scrub vigorously with an old broom or brush.

Your Lye Source floors free from grease. Lewis' Lye helps keep garage



EssentialDepu ssential Depor TREE AND PLANT SPRAYS

The spraying of orchards to control insects and fungi recognized as very inexpensive insurance. Many standar insecticides and fungicides require lye in their preparatio Fruit growers have learned to rely on Lewis' Lye, because its uniform high quality.

Your Lye Source Mosses and Lichens

Peach Tree

Lewis' Lye Sulphur Spray Your Lye Source

Mosses and Wichens on fruit trees harb many injurious insects. They may be r moved by applying a solution of 1 can 18 Dewis' Lye in 21/4 gallons of water. Spra on while the trees are dormant, or swab on locally at any ting

Swab the above solution on the bark peach trees in late summer to help destre the eggs and young wormsEs This spray is used as a dormant treatme

for San Jose scales Dissolve 6 cans Lewis' Lye in 2 gallons of water. Slow add 5 lbs. of dine sulphur, stirring steadi until all has dissolved Dilute with wat to 25 gallons. U.S. Department of Agriculture Bullet

No. 1666 states: "Fish oil soaps may be us

Fish Oil Soap

with the following spragamaterials to increase their sprea ing and adhesive analyties: Lead arsenate, nicotine solution Bordeaux mixture, and sulphur. Soap should not be used lime-sulphur Solutions, or in waters strongly alkaline. can make this soap at home at a great saving See Affection page 32. One pound of fish oil soap dissolved is each 3 or gallons of water makes a good insect spray for foliage.

Crude Oil Spray

Crude oil spray is very effective in killing many insect pests as well as mosses as lichens. This spray is widely used l Pacific Coast fruit growers to destroy re

spiders, mites and scate insects.

24 gals. Crude Oil 16° to 22° ye 5 cans Lewis' Lye
20 lbs. Fish Oil Soap 176 gals. water
Dissolve the 5 cans of Jacwis' Lye in 10 or 15 gallons boiling water. Add the fish oil soap, stirring until dissolve

Fill the spray tande partly full of water and then add the above mixtures Now add water to bring the tank contents 176 gallons. Start agitator and slowly add the crude of T not add water after oil is added. Proportions used are as give C. S. Dept. of Agriculture Bulletin No. 908.

Black Scale Rosin Wash

.Place 20 gallons of water in a tank as add 41/3 cans of Lewis' Lye, 3 pints of fi oil and 20 lbs. of rosin. Boil for 3 hour Then slowly add enough water to make 10

gallons of solution. Spray the plants with this wash.

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YOUT LYPE SOUTH WASHINGTON WA

Your Lye Source

EssentialDepo **BEE SANITATION**

Beekeepers recommend Lewis' Lve sanitation as an aid in profitable honey production. Lewis' Lye is a powerful disinfectant and a great help in removing wax, propolis and dirt. Your Lye and other bee equipment; then soak in the result of the private of the p and other bee equipment; then soak in the solution for 10 minutes. They will come out in a tean, sanitary condition. Drain and dry before use. User tabber gloves.

OUTDOOR TOILETS

Keeping outdoor toilets clean, odorless and sanitary is another obligation everyone owes to his family. Lewis' Lye has been used for this purpose for 3 generations. It is effective, inexpensive, handy to use, and its air-tight can keeps it full strength until used. The following rules will aid in the maintenance of a sanitary outdoor toilet.

The outhouse should be well wentilated and tightly

screened at all points.

out 28. The seat covers should fit tightly. South that no light enters the pit through cracks or small bodes—this is a good test for tightness against flies, which should be excluded.

3. Sprinkle Lewis' Lye into the pit every week-oftener in hot weather-it will aid in decomposition of the fecal matter and help keep down odors.

4. Scrub the scat, floor and walls with a solution of 1/4 cand Co of Lewis' Landing a bucket of water. This will do an excellent job of cheaning, whitening the

job of chaning, whitening the wood surfaces, disinfecting. and destroying objectionable odors when it reaches their source.

You Lye Soul Chemical Closets a chemical to disinfect, des 2495 double solution and liquefy the solut odorize and liquefy the feeal matter. As stated in U. S. Dept. of Agriculture Bulletin No. 1227, lyen's very effective for this purpose. Sprinkle in a little Lewis' Lye every few days. The fecal matter always should be submerged. The re-Your Lye Source plowed under. ceptacle should be emptied frequently and the contents buried



EssentialDepe EssentialDepe REMOVING PAINT AND VARNISH

Many professional painters know the effectiveness of Lewis' yet costs but a small fraction of prepared paint-removing liquids. When you refinish a floor, some old furniture or farm machinery, try Lewis' Lye. You will like the assure or it removes the old finish

How to Prepare

Dissolver can of Lewis' Lye in 1 quart of water. In another container stir 4 heaptablespoons of cornstarch into 2 quarts com of water. Pour the lye solution into the

cornstarchevery slowly, stirring continuously to make sentick paste without lumps. Rubber gloves will protect will hands when removing paint.

How to Apply Metal Surfaces. Swab the paste onto the painted or varnished surface in an even as it shows signs of drying, when it should be scraped off with a putty knife, wise brush or steelwool. The thick coat, using an old brush or rag on a stick. Cover only varnish is softened by the Lewis Eye paste and will come off with it. Do not permit the paste to dry before removing If parts of the finish do not come off the first time, a second or third application may be necessary. After the finish has been removed from a section, flush it with water before starting on the next section. When the entire surface has been completed, rinse with water and allow to dry thoroughly before repainting. Do not use lye on aluminums

Small metal parts. These are treated more easily by banging in a solution of 1 can of Lewis' Lye to each gallon of water Allow to soak until paint becomes soft. Remove, scrape of often saves time to remove and treat this way.

Wood surfaces. Follow the same meaning faces, except more paint, rinse and dry thoroughly before repainting. When treating farm machinery, etc., having painted metal parts, it

Wood surfaces. Follow the same period as for metal surfaces, except more care must be used. All paint removers wil discolor wood if allowed to germain on too long. The power that makes Lewis' Lye so effective for removing paint will eventually darken the wood if improperly handled. The secre is to work on a small section at a time, completely removing all traces of the lye just as soon as the softened paint has been scraped off. This is done by flushing the bare wood of wirface withewater and scrubbing with scouring powdere to stop al action of the lye. Then proceed with the next small section After the paint or varnish has been removed from the entire floor or piece of furniture, rinse it again with fresh water and allow to dry thoroughly-preferably a day or two. Sand-paper the surface smooth and apply the new finish in the regular RAD 2495 - Your Lye Source way. Do not use on oak floors.

KILLING DANDELIONS AND WEEDS

For years, ridding lawns of dandelions, plantains and other weeds has been a laborious, unsatisfactory task. Digging out weeds is a back-breaking process, and if all the roots are not

Your Lye solver a back-breaking process, and if all the makers of Lewis' Lye bayed desired way to be sive way to be solved as a back-breaking process, and if all the makers of Lewis' Lye bayed desired way to be solved as a back-breaking process, and if all the makers of Lewis' Lye bayed desired way to be solved as a back-breaking process, and if all the makers of Lewis' Lye bayed desired to be solved as a back-breaking process, and if all the makers of Lewis' Lye bayed desired to be solved as a back-breaking process, and if all the makers of Lewis' Lye bayed desired to be solved as a back-breaking process, and if all the makers of Lewis' Lye bayed desired to be solved as a back-breaking process. cracted, the remains soon sprout again. The makers of Lewis' Lye have developed an easy inexpensive way to kill these pests, right down to the root-tips, so they won't sprout again. Simply place 1/4 teaspoon of Lewis' Lye on the crown of each plant. The Lewis' Lye penetrates into the sap of the plant and is drawn into its roots, soon killing it. Grass seed may be planted within 24 hours. Tests in exterminating dandelions and plantains showed that the Lewis' Lye way was 21/4 times as rapid as digging them out by hand. Save this time and hard work when weeding war lawn.

> These aggressive weeds have ruined many a pasture and field. Young plants can be no killed by placing a 1/4 teaspoon of Lewis Lye on the crown. Older plants should be

Canadian Thistle

cut off near the ground and 4 teaspoon of Lewis' Lye applied

To kill grass and small weeds on tennis courts, driveways, stone walks, etc., dissolve 2 cans of Lewis' Lye in Bucket or sprinkling can of water Sprinkle or spray on,

Grass and

using plenty of solution. If the weeds are particularly resist ant, treat a second time, using more Lewis' Lye. Rinse Phe Esser bucket as sprinkling can after using.

COMPOST OR FERTILIZER

the same time you are cleaning up your late. At poultry lots you can be assembling valuable compost or fertilizer ingredients. Thrifty European farmers appreciate the value of home-made fertilizer; nearly every farm vard has its compost pile. The American farmer, having more money to co spend for stope fertilizers and not wanting to have a composit pile in the way for the year or two usually required for it to "ripen" or to turn into real fertilizer, has neglected this economy. When more farmers realize that, aided by Lewis' Lye, compost will "ripen" in about a month, more will want Lewis' Lye helps make HARD jobs EASY.

940 2495 - Your Lye Source

EssentialDepe EssentialUer to use this way of saving cash spent on fertilizer for buying things that cannot be obtained on the farm.

Directions

Your Lye Source

Decayed animal and vegetable matter, animal and poultry manure, poultry house litter, straw, weeds, corn cobs, etc., all wake good compost. From long boards make a frame like the sides of a box, plac-

ing it in an out-of-the-way place near the barn or stable. Pile this refuse material intoo the frame until about 2 feet deep. Saturate this thoroughly with Lewis' Lye solution made by dissolving a capor Lewis' Lye in each bucket of water required Use plentsepor solution.

Next add about a 5 inch layer of earth; then another 2 foot layer of compost material. Saturate this thoroughly with the same Lewis' Lye solution. Continue adding layers of earth and compost material until all the waste is used up. As more accumulates, start a new pile or add to the old one. After about Your Lye Source purposes. 1 month of ripening, the compost may be used for fertilizing

PREMIUMOFFER

- (866) 840 2495 Thermometer

Here is an opportunity to obtain a useful thermometer at greatly reduced cost by saving Deewis' Lye labels. This thermometer

will help you make fine quality soap easily. It is also useful for dairy purposes and other farm and home uses. Cut the large word "Lewis" from the front of 8 Lewis' Lye labels and mail with 39c in stamps (not coin) to the Pennsylvania Salt Mfg. Co., James D. Swan, Manager of Specialties, 20 No. Wacker Drive, Chicago, and the thermometer will be sent yous bage prepaid. This offer is void in any state or municipality where its use is restricted, taxed or prohibited by law. We reserve the right to withdraw offer without notice and return any money sent of the company to the company t

Essential Deposition of the recommendations contained herein for the use of Lye, or any apparatus for using Lye, are based upon tests believed to be reliable, but the Pennsylvania Salt Mfg. Co. makes no guarantee of the results to be obtained and assumes no liability in connection therewith.

Your Lye Source

AAO 2495 - Your Lye Source

POINTERS ON USING LEWIS' LYE

EssentialDepu

To keep Lewis' Lye at full strength, the cover on the can should lye absorbs carbon dioxide from the large solutions of air, because lye absorbs carbon dioxide from the all increasing its sodium carbonate content at the expense of the more powerful sodium hydroxide content. As lye solutions are colorless and odorless, if they are not to be used immediately, remove label from an empty lye can and passe on container.

Lewis' Lye is one of the most widely useful of all products for CO

the farm and home. To be so valuable for so many things it must be powerful; but its energy can be controlled just asseasily as can fire or electricity. Strong solutions of Lewis' Lye should not be brought in contact with the skin, clothing, leather or painted

surfaces-no more than should fire.

EssentialDepu

Your Lye can be handled easily without harm. As an added strongest Lewis Lye solutions: Cotton clother least - 11. When the directions in this booklet are followed carefully,

Keep lye on a high shelf outsof reach of children. Always

leave the label on the can what it is entirely empty. HOWOTO TREAT LYE BURNS POLCO

Internally, any lye may produce extensive and permanent damage. Consequently, a physician should be consulted as soon as possible to find the extent of the burn, and prevent permanent Your Lye Soutdillute the poison. Acid drinks containing vinegar, lemon juice, lye with large quantities is even more important to Jil in least the large quantities. or dangerous injury. As soon as possible wash the mouth and

Externally, strong lye may peoduce a deep burn, or weaker solutions may blister. Bather affected parts with water as soon as contact with lye is Scovered-EVERY SECOND OF DELAY MAKES THE BURNOWORSE. Here again vinegar, lemon juice CO and acid solutions are desirable but dilution with water is the important ipreventive. After a burn is sustained, keep it day and use some antiseptic such as mercurochrome to prevent infection at the edge or under a blister. Ointments will do more harm than good in any burn.

Eves. Wash out with 5% boric acid solution.

You Lye Sou You can rely on Lewis' Lye—Source Quivoid substitutes!

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A farmine of good farmers and housewith of the form

Let Lewis' Lye serve you:

in dozens of money-saving ways described in this booklet. It costs only

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For your protection 2405 Insist on genuing Lewis' Lye—avoid substitutes. Your grocer has Lewis' Lye or can get it. Essential Depot. Con



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