

Swap-Work Plan Helps Farm Labor Shortage

Swapping labor for combine service in cutting small grains was developed at a recent farm labor meeting in Randolph County, says J. P. Leagans, Extension Specialist in Farm Planning at N. C. State College.

It was developed that 75 farmers had 9 combines and only two of them were planning to do custom work. They were all familiar with the fact that during the harvesting season for grain, other crops such as cotton and corn would have to be worked out. The growers with the combines did not have sufficient labor to work out their row crops and run their combines at the same time.

According to Leagans, a plan was worked out whereby the neighbors who needed combine work, agreed to go over and work out the row crops of the combine owners in exchange for combine service on their own grain. In this way the combines can all be kept operating at full capacity and all of the row crops on all the farms can be taken care of.

Leagans says that this is a good example of the swap-work program and that he is sure that practical minded growers will work out many others. Recently the women and children on three farms began a cooperative project of weeding all the tobacco beds while the men did the heavy work. Two horse plows replaced one horse plow in breaking so that one man could be released for other work.

Leagans pointed out that the swap work program will help to solve the labor shortage in many sections by using all available labor on the job for which it is best fitted and by making full use of all machinery and equipment.

The Coble Dairy Products Co. of North Wilkesboro is buying between five and six thousand cases of eggs daily. They are dehydrating about 300 cases and the remainder are being stored for later drying.

Better Fire Protection Needed For Farm Forests

The first need of farm forestry in North Carolina right now is more efficient fire control and a realization on the part of every one just how much damage can result from a wood's fire, says regional Farm Forester H. E. Henshaw of the N. C. State College Extension Service. The recent Legislature recognized the seriousness of the situation when it voted to make it a felony to maliciously set a fire in woods.

Henshaw cites a case where fire got into a growth of timber that was on land that had not been burned over for 25 years. He reports that not more than 50 percent of the saw timber will survive the fire and that only about 10 percent of the young growth is left.

In another case, the land had not been burned over in 22 years. The timber was cut on a selective basis about five years ago and was well stocked with reproduction trees at the time of the fire. These reproduction trees are now practically all killed and must be salvaged for pulpwood. At the time of his report, it was too early to tell just how much damage had been done to the sawtimber, but the damage was great, he said.

On account of the large losses experienced, the farmers owing the woodlands declared that they were going to burn off their woods in the future to avoid any repetition of such a hot fire. However, the forester called their attention to the fact that repeated fires in the woods will kill all the young growth, seriously damage the larger timber, and that experience proves that yearly burning is poor policy. Better fire protection is the answer.

At present there are three large centers for Polish refugees in India.

Military and other war needs will consume nearly twice as great a proportion of United States food supplies this year as last year.

Home economists say that the steam pressure is the only method of conserving certain types of vegetables.

Spodumene Mine In Operation Here

When the Editor of the Kings Mountain Herald visited the Solway Process Co. plant just beyond the city limits of the town of the Grove Highway last week to find out just what spodumene really was, General Manager Philip Lefferson presented him with an article that was recently published in CERAMIC INDUSTRY which answered in detail. As the big plant is now in operation and will be of vital importance to Kings Mountain, the war industry and Piedmont Carolina the article is reprinted here so that several readers will know exactly what the valuable ore mined in the hills of historic Kings Mountain really is.

Information from the article furnished The Herald by Mr. Lefferson follows:

LITHIA is the oxide of lithium, usually added to ceramic latches by means of a chemically prepared lithium carbonate, or by means of one of the natural ores, amblygonite, lepidolite, and spodumene. Lithia is a very powerful flux, especially when used in conjunction with potash and soda feldspars. It is a valuable constituent in certain glasses having low thermal expansion because it permits the total alkali content to be kept at a minimum. It also enables the production of certain glasses having high electrical resistance and desirable working properties. A relatively high content of lithia allows the production of glasses that transmit ultraviolet light.

Lithia has been widely used in the production of pottery GLAZES of high quality. The addition of 1 percent lithium carbonate to dinner ware, electrical porcelain, and sanitary ware glasses has been found to increase the resultant glass to a marked degree. In electrical porcelain it is also of value in producing a glass of high strength and resistance to weathering. Due to its strong fluxing properties, the use of from 9 to 12 percent of lithium carbonate permits the use of greater amounts of alumina, silica, and silica in raw alkaline glasses, thus giving a more stable glass. Such glasses may still be sufficiently alkaline to produce the beautiful and vivid copper blue and other typical alkaline glass colors. In chinaware glasses, the addition of 0.5 percent lithia usually gives a decided improvement to fluidity and surface tension of the glass, producing greater uniformity, eliminating pin holes to large degree and giving an increased gloss. When used in place of lead oxide in a glass, there is less tendency to vaporize and coat the kiln and kiln furniture with an undesirable glass.

LITHIUM is the lightest metal known. Many of the lithium salts, particularly the carbonate, tend to form double salts of the alkaline earth metals in chemical behavior, rather than the salts of the alkalis.

LITHIUM CARBONATE, due to the presence of undesirable coloring impurities and variations in the lithia content of natural lithium ores, chemically prepared lithium carbonate is often substituted.

SPODUMENE is a lithium - aluminum silicate which theoretically contains 6 percent of lithia although commercial materials show about 6 percent. Due to partial replacement of the lithia by soda and potash, it is found chiefly in South Dakota, North Carolina, California and Massachusetts. The mineral is dull grayish and has a hardness of 6.5 to 7, with a specific gravity of about 2.97. A typical analysis is as follows:

| | | |
|---------------|--------|------|
| Silica | 62.81 | Pct. |
| Alumina | 26.42 | Pct. |
| Lithia | 0.58 | Pct. |
| Potash | 0.89 | Pct. |
| Soda | 0.45 | Pct. |
| Iron oxide | 0.53 | Pct. |
| Magnesia | 0.13 | Pct. |
| Lime | 0.11 | Pct. |
| Ignition loss | 0.28 | Pct. |
| Total | 100.21 | Pct. |

Recently 47 additional dairy cows were placed on the milk route in Jackson County and additional farmers were added, when the route was extended reports H. Kirkman, east county agent.

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When bowels are sluggish - when you feel tired, irritable - do an ounce of FEN-A-MINT. This is the most effective, most palatable, most reliable laxative. It is a natural, non-toxic, non-habit-forming, non-drying, non-purgative. It is a natural, non-toxic, non-habit-forming, non-drying, non-purgative. It is a natural, non-toxic, non-habit-forming, non-drying, non-purgative.



NORTH CAROLINA WEEKLY WAR BOUND UP

Gas For Victory Gardeners

Victory gardeners planning to cultivate plots away from their homes will be eligible for extra rations of gasoline this summer, if they can show need for extra mileage, the OPA has announced. Mileage rationing regulations are amended to provide up to 300 miles for six months for victory garden travel. If the car owner is regularly cultivating a tract of vegetables of 1,500 square feet or more 1 cannot get to his garden any other way and shows his labor is necessary. Arranges, if possible, to share his car with other gardeners.

War Expenditures—1918 and 1942

In 1918 American war expenditures were only \$1.2 billion dollars. In 1942 they will exceed 100 billion dollars. These figures show sharply the difference in cost between the last war and this one. There were four liberty and victory loan drives in the last war, with a total goal of less than \$1 billion dollars, out to finance the present war, the people of the United States must raise about 70 billion dollars before the end of this year. In that war, our task was chiefly to fortify a line of trenches in France—in this war we must equip and supply our armies on all the fighting battlefields of the world.

Change in Tire Ration

Effective May 1, passenger car drivers with mileage rations exceeding 240 monthly are eligible for any grade of new fire when their present casings are not recappable. Formerly, grade 1 casings were reserved principally for drivers with mileage rations over 500 monthly.

Job Records Of High School Students

To help high school students find their proper place in the Army or in war industry, each one will soon be asked to make a card record of his school and job history. These "educational experience summary record" cards will contain such information as a student's academic standing and achievement, vocational and pre-induction preparation, wage earning experience, and significant hobbies and social security numbers.

Sacrality Totals

Announced casualties of the United States armed forces from the outbreak of the war to the next of kin have been notified) total 79,200. In combining war and navy reports, it includes dead 12,112, 649 missing 40,435 and prisoners of war 10,628.

Tire, Car, Bicycle Quotas

The national quota of new passenger car tires for rationing in 1942, 1,006,882, compared with 1,058,000 for April. Certificates for purchase of these tires go to drivers whose mileage rations exceed 240 miles monthly and who do not have recappable casings. New passenger cars in May total 50,000 compared with an April allotment of 28,000. The bicycle quota for May is 58,000 unchanged from April.

Replacement For Tractor Tires

Replacement tires can be obtained for farm tractors when there are no recapping facilities available, the OPA has announced. Formerly, no replacements could be had for tires which were in recapping condition.

"Lay Away" of Shoes

Shoe dealers cannot hold or lay away shoes for customers beyond the end of the period in which a current war ration shoe stamp is valid unless they receive the shoe ration stamps in advance. The OPA has announced. Another amendment provides that house slippers and moccasins designed for indoor use only are not rationed.

Group Riding Increases

Group riding has made its greatest gains in rural industrial areas, state surveys show. In these sections, the average number of persons per car increased from 1.77 a year ago to 2.17 now. The average number of persons per car throughout the country has increased from 2 prior to July 1, 1942, to 2.66.

Cottages On Washing Machines

Maximum prices for used washing machines sold by dealers, auctioneers and individuals have been established by OPA. Rates for rental of used washers limit to \$4.50 for the first month and \$3.50 monthly thereafter, regardless of the type of machine rented.

War-Time Dairy Barn, Fences, Gates

Plans for a dairy barn that uses a minimum of critical materials may be obtained free from the U. S. Department of Agriculture, Washington, D. C., by writing for a leaflet on "A Wartime Dairy Barn." How to make fences and gates. A minimum of metals can also be obtained by writing for the folder "Wooden Fences and Gates." New Cottages on Steel and Lamb Metal cutting prices for beef and lamb will be reduced one to three cents a pound below the cottage originally scheduled to take effect

April 15. The new prices became effective May 17 and will be uniform throughout the country for stores of the same type.

More Nurses Needed

More than 65,000 women must be added to the nursing corps if civilian health is to be maintained in 1942. There is a drive on enroll qualified young women in June in the 1,200 nursing schools attached to the country's leading hospitals.

"I Am An American"

"I Am An American Day" will be celebrated throughout the nation on Sunday, May 16, in honor of new citizens. Arrangements for celebrations are in the hands of local committees.

Parts for Trucks, Buses

Contrary to general opinion owners of trucks and buses do not need a preference rating to buy a replacement part. If the needed part is not available locally a purchase order may be placed with a dealer.

with most foods dry in iron, this is valuable information to know. One half cup of turnip greens will give us about one fourth of our daily requirement of this mineral.

Greens also are high in vitamin C, and they are a good source of riboflavin, or vitamin G.

Greens are cheap, plentiful, and easily cooked. Pick them over and wash them in warm water to loosen the dirt, then rinse them thoroughly in cold water, cut the large leaves and cook rapidly in a small amount of water for from 10 to 30 minutes. Season them any way that you wish but be sure to cook them with bacon fat or ham bone.

Minerals are present in the foods we eat. The amounts are so small that it is impossible to see them, but they are absolutely necessary for good health. They may be classified as both protective and building substances.

State College Hints To Farm Women

Turnip is a double action vegetable. The roots make good winter fare—and the tops furnish greens that are rich in vitamins and minerals. Every daily menu should include at least one green leafy vegetable as turnips, mustard greens, or collards.

Greens top all foods insofar as vitamin A is concerned. One serving or one-half cup of turnip greens will provide three times our daily requirement of this vitamin.

Turnip greens rate high as a source of calcium. One serving, or one half cup (and this is two thirds as much calcium as a glass of milk will furnish) will give us one fourth of our daily requirement. The greens are high in iron and

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