

SOIL CONSERVATION NEWS

By W. O. Lambeth

During the week of October 8, designated by President Roosevelt as Fire Prevention Week...

The best way to fight a fire is to prevent it from starting, and by employing good fire prevention practices...

Statistics compiled by the National Fire Prevention Association show that fire destroyed 12,000,000 bushels of grain in 1943...

Preventing the destruction by fire of food necessary for our fighting men is just one phase of the fire prevention program...

In 1943, fire also destroyed \$95,000,000 worth of farm property. This does not include forest fires which were estimated at causing a loss of \$65,000,000...

A survey of all farm buildings should be made by the farm owner as quickly as possible to determine the existing hazards that might cause or aid a fire after it started...

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WAIT 'TIL THESE BARS AND SHACKLES ARE TAKEN AWAY AFTER THE WAR!



Reg Manning for Phoenix Republic and Gazette Syndicate

THE LOW DOWN from HICKORY GROVE

Everywhere you look, it is the alphabet. If you do not know the A A A and the other outfits all the way down to 'and so forth,' and join one of 'em, you are just a taxpayer—and maybe none too bright.

It used to be the Greek letters that counted. Nobody knew what the letters meant, except it was another sorority or something to join and have a skookum time at papa's expense. But it is not much different now, the way we use the English 'or outfits run at Uncle Sambo's expense versus papa's expense under the Greeks.

There is one outfit we don't hear much about. It is the ZZ. ZZ stands for zig zagging, which a lota Bureau Boys are doing, trying to cover their tracks so they can stay a little longer on the pay roll, and keep their Exempt car. They ride free and exempt, whilst the taxpayer walks and mops his brow—and pays the bill.

To identify who is a ZZ we need bigger signs on Exempt cars. We furnish them with free gas—we should see what the gents look like.

Yours with the low down, JO SERRA.



Jo Serra

VICTORY ON THE FARM FRONT NEWS FROM THE Agricultural Extension Service

STATE COLLEGE ANSWERS TIMELY FARM QUESTIONS

QUESTION: Should phosphate be applied more often to pasture land than lime?

ANSWER: Yes, say agronomists of the Agricultural Experiment Station at State College. A test was held on a field in Buncombe County using the two materials. The first year excellent results were obtained from the two treatments, but the second application of the limestone failed to produce an additional yield or a better appearance, while the second application of phosphate gave a definite response. This shows, the agronomists say, that pastures should be rephosphated at least every three years, but not relimed that often.

QUESTION: Will the treating of corn seed increase the stands under all planting conditions?

ANSWER: The answer depends upon the conditions prevailing on your farm. Seven lots of corn seed, each grown in a different location in 1942, were treated with Semesan Jr. and planted in 1943. These treated and untreated seed were planted in each of three locations in the state. A 15% increase in stand was obtained from treated seed planted on the Piedmont Branch Station Farm At the Upper Coastal Plain Branch Station, a 5% increase occurred.

But at the Blackland Station, no increase resulted from the treatment. Different soil moisture and temperature condition are believed to be responsible for the difference in results.

QUESTION: Do lights make turkeys lay earlier? ANSWER: Results of tests conducted by the poultry staff of the Agricultural Experiment Station show that they do. In 1943 the lights were started in the breeding pens on December 1, and the length of day increased so that by December 10, the lights were on from 4 a. m. until daylight. Egg production under these conditions began sixty days earlier than it had in past years—when no lights were used.

SCIENCE AT MILLS HIGH SCHOOL

By C. R. P. For the last two weeks, the science classes of Mills High School have been carrying a pretty stiff schedule of work, which involved many experiments and outside study, this study leading to the understanding as well as the writing up of experiments done on class.

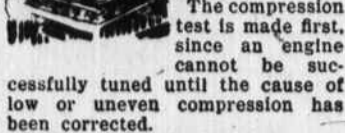
8th Grade Science The eighth grade science class has been quite busy this week studying the lives of such men as Galileo, Leeuwenhoek, Newton, Edison and Pasteur. This study was made more interesting by the use of the encyclopeda as these men's lives were discussed. This work was done to show the student how the lives of these men correlated directly with their contribution to science. Understanding their lives and problems seem to help the student to understand their contributions to the science field.

Biology The study of the Digestive System still is in the lime light in the biology classes. For the last week dissection of frogs and experiments on osmosis have kept them busy. The laboratory was the vogue of the week as most of the class periods were spent drawing, studying and labelling. The student became familiar with the instruments of dissection and their use. The practice of drawing what one sees was new to many. The drawings and dissections culminated in comparing the digestive system of man with that of the frog. Good results were obtained with the osmosis experiment.

Mileage Hints

By J. F. Winchester Supervisor of Motor Vehicle Equipment, Esso Marketers

MANY motorists are not familiar enough with modern automobile service practice to appreciate how important an engine "tune-up" is to maximum performance and economy. Commonly a "tune-up" involves the testing and corrective adjustment of the compression, the ignition system and carburetion.



The compression test is made first, since an engine cannot be successfully tuned until the cause of low or uneven compression has been corrected. Then follow checks of battery, spark plugs, distributor, coil and condenser, timing, etc., and the required cleaning, adjustments or replacements to insure that the electrical system is in a satisfactory condition.

Carburetion must be carefully checked and adjustments made by an experienced mechanic. Proper air fuel mixtures are essential to high-standard performance and to peak economy.

Modern "tune-up" has become largely a matter of specialized instruments intelligently used by a service man of broad experience. Drivers should not underestimate the value of having frequent "tune-ups" of their car engines.

This experiment was performed so that the student could better understand how the food value was absorbed or assimilated by the blood stream.

General Science One of the most interesting of all science units was the discussion and experimentation on the subject—air pressure. This subject has delighted the General Science class for the last two weeks. This study, broad in its entirety, is best studied through simple experiments. One needs only a vacuum pump and a bell jar to show how our everyday lives depend so much on air and air pressure. The student was shown how a great percentage of everyday equipment and their working's were dependent upon air pressure. The following things were discussed in relation to this subject: a. weight of air. b. Barometer and Air pressure. c. What makes an

airplane fly (Several models were brought to the Science Class by George Davis and George Murphy). d. Action of air pressure on lift and force pumps. e. Principle of the Siphon and barometer. f. Other problems of lesser importance discussed.

Physics It so happens at the present time the Physics class is discussing the same subject as the General Science class. This discussion, however, is more involved and technical than that carried on in the General Science class.

Experiments Performed 1. Use of dry cell batteries and lighting equipment to show the problems Edison was up against in the invention of the electric light.

- 2. Dissection and study of frogs.
3. Osmosis Experiment with egg. Completed—good results.
4. Fountain in a vacuum.
5. Torricellian experiment.
6. Experiment with the Siphon.
7. Use of glass model force pump.
8. Study of model airplane (discussed Cambered wing).

9. How liquids rise up exhaust tubes. 10. Bacchus' Experiment.

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