

### Best Seed Will Increase Yield

Clean and Healthy Sweet Potatoes Are Only Kind to Plant.

(Prepared by the United States Department of Agriculture.)

Clean and healthy sweet potatoes of strains resistant to disease and most productive for the soil where they are to be grown, are the only kind to use for seed, says R. F. Poole, sweet potato specialist of the New Jersey agricultural experiment station.

"When buying Yellow Jersey sweet potato seed, the grower should demand certified seed or its equivalent. Certified seed sweet potatoes are obtained from fields that show very slight infection of scurf and stem rot, or none at all. These two diseases are transmitted in the plant-bed from diseased potatoes to sprouts, and are carried to the field on the latter.

**Diseases Cause Loss.** Severely diseased seed potatoes may result in 50 to 100 per cent of diseased sprouts. In case of stem rot, a high percentage of the plants die soon after they are reset in the field, as well as during the summer. When scurf-infected sprouts are set, black, scurfed potatoes are generally harvested.

"Some strains of Jersey varieties which are more resistant to stem rot than others produce 25 to 100 bushels per acre more than the very susceptible ones.

**Difference in Production.** "On the same soil there is a difference in the production of Red Jersey, Vineless Yellow Jersey, Gold Skin, and other Jersey strains. That is, the Red Jersey sometimes produces better than the Yellow Jersey strains on low sandy loam areas, while the Yellow Jersey strains sometimes give the best production on high "sassafras" sands. The proper use of the Jersey varieties and strains will do much to improve the quality of the crop, as well as bring the production up to a profitable point, through the reduction of losses from disease."

The best time to procure a sufficient supply of good sweet potato seed is at the digging season. Growers who failed to do this, and have not yet laid in their stock, are advised to obtain a good supply now, and not wait until bedding time, when they may have to take any kind of seed they can get.

### Experiments Prove That Milk Flow Is Continuous

For many years it has been taught that milk is manufactured during the process of milking and not collected in the udder. This was effectually disproved by the simple experiment of post-mortem milking at the federal dairy experiment farm, Bettsville, Md. The udders of two cows were removed immediately after slaughter and found to contain 11 and 20 quarts respectively. This represented practically 85 per cent of their normal milk production.

"These experiments prove quite conclusively that milk secretion is a continuous process," says George H. Glover, Colorado Agricultural college. "A large proportion of the milk secured at any milking is collected and stored within the mammary gland before milking is commenced. Furthermore, the liberation of milk from the udder does not depend upon a nervous or mechanical stimulation, or internal muscular contractions. It is thus apparent that a phonograph is no longer necessary to produce a larger milk secretion in the dairy herd."

### Cattle Feeders Advised to Market Light Stock

H. J. Gramlich, head of the department of animal husbandry of the University of Nebraska, told a Cattle Feeders' day audience at University farm that in five years 90 per cent of the cattle going to market will weigh under 700 pounds. From a commercial or retail shop standpoint the little animal not highly finished is in best demand, he said.

"We are coming to a time when we will produce super baby beef—good carcasses at weaning time," he said. "Carcasses such as these are light and dress out good. The feeder who is shipping his cattle before they are eighteen months old, preferably fifteen months old, will get along. The public doesn't want weighty carcasses."

### FARM NOTES

The good farmer never stops learning how to farm. That's why he is a good farmer.

It is not advisable to plant alfalfa back on alfalfa land without a few years between crops.

Paint is suggested as a preventive of disease because disease germs will not flourish in a clean, well-kept place.

If there is a dark corner in the chicken house, the litter will pack there, for lack of scratching feet to kick it out.

Just because a mare happens to be pure bred and possessed of a fancy pedigree is no excuse for letting her become fat, sluggish, constipated and weak during the winter season.

## USING AUTO IN WINTER FAVORED

Stored Car May Be Badly Damaged by Freezing and Moisture.

Strange as it may seem, it is usually better for an automobile, and it may be cheaper, to keep it in operation all winter than to lay it up. Outside of a slightly larger consumption of gasoline and the cost of alcohol or other anti-freeze compound, it is scarcely more expensive to run a car during the winter than during the summer, while it may be most expensive to lay up a car and have it meet with harm through cold, moisture and lack of attention. For a car that is in daily use must receive a certain amount of care to be kept running sufficiently, while a car that is locked up in a cold, sometimes snow-bound, garage gets no attention.

**Must Prepare Engine.** If you intend to run your car through the winter, as most people do, you must do three simple things, writes George A. Luers in the Popular Science Monthly. You must prepare the engine for anti-freeze compound, put in anti-freeze compound, and renew the latter as it evaporates or is lost through leakage.

The first of these precautions amounts to little more than seeing that your water circulation system is tight. A small drip during the summer is inconsequential; it means merely adding water from time to time. The same drip in the winter, though, is likely to run into money, since it is carrying away an anti-freezing mixture that costs you between 50 cents and a dollar a gallon.

Rubber hose connections are the most frequent causes of leaks, and it is usually well to renew these before filling with anti-freeze if they are old or their condition is doubtful. Renewal of the pump packing is another job that should be done before the anti-freeze is placed in the radiator. It is also well to tighten the hose clamps and pump gland every two weeks or so during the winter since these parts may become loosened in driving.

**Cement Small Leaks.** Small leaks in the radiator can be repaired with a radiator leak-sealing compound. This should be done a couple of weeks before the anti-freeze is put in, to give the cement a chance to set and harden. In addition to the various commercial anti-freezing solutions, denatured alcohol, a mixture of half denatured alcohol and half glycerin, and calcium chloride, mixed with the water in the cooling system in correct proportions, supplies effective means of preventing a car from freezing.

If your car is in good mechanical condition the foregoing is really all you need to do to enjoy it through the winter.

### How to Prevent Trouble Starting Auto in Cold

Many motorists have difficulty in starting their cars in cool weather and blame it on the improper adjustment of the carburetor, which worked fine all summer long. They neglect to have the carburetor adjusted for winter use and instead they put up with having to overchoke the engine and in many cases run for a few blocks with the "choke" out.

They never know what this does to the engine until a few months later when it has to be completely overhauled. Then they find what automobile experts have found before them, that the cylinders are pitted and scored—just as if they had not used enough oil.

"The overchoke causes crankcase dilution and destroys the protecting effect of the oil," engineers of an automatic radiator shutter declare. "It causes high gasoline expense and extreme carbonization. Furthermore, the low temperature causes moisture to gather on the cylinder walls, which causes corrosion.

"All this trouble, and it is the cause of 50 to 75 per cent of all motor troubles, can be prevented by guarding against low temperature of the engine."

### Roadless Automobile Is Next to Appear

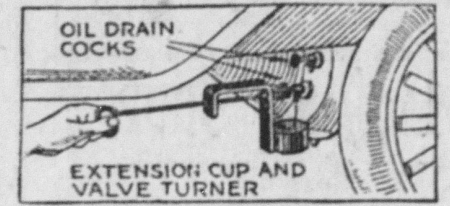
Trackless street cars having become a reality, attention now turns to the development of the roadless automobile. The introduction of balloon tires was a hint of this. Cars now can negotiate with comfort roads that formerly were impossible. Traction is greatly improved and power is ample.

New methods of spring suspension are being experimented with so it may be possible for the body of a car to remain virtually level while the four wheels adjust themselves to all manner of conditions.

### Cup Gets Oil Dripping From a Small Petcock

Equip your valve turner with a cup of this type and avoid spilling oil on floor. Be sure that it turns freely. On cars fitted with small petcocks to determine the level of the oil in the crank case, oil is bound to be spilled on the floor of the garage when the oil level test is made. A way to eliminate this trouble is suggested in the illustration.

Long-handled keys for these petcocks can be obtained in almost any



Cup in Position.

auto supply store, and a small metal cup is riveted to a piece of thin strap iron that is bent as indicated.

The hole through the bent iron should be large enough to allow the cup to turn easily and consequently remain underneath the petcock as the latter is turned.—Popular Science Monthly.

### Driver Should Practice Backing Out of Garage

"When a motorist starts up or backs out of his garage with a lurch, a serious accident may be the result," says Charles M. Hayes, president of the Chicago Motor club. "For this reason the simple art of starting should be practiced by the driver who aims to have a 'no accident' record.

"The first precaution is to see that the hand brake is set. The clutch should then be thrown out. This saves wear on the battery and is also a safety measure. The starter then should be turned over with the ignition off to get a supply of gas in the chambers. The cautious motorist, of course, will have his gears in neutral. His next move will be to shift to low or to reverse, as the case may be, and release the hand brake and apply the power gently.

"In backing out of the garage the sounding of the horn is not sufficient. The driver should make a practice of seeing that no one is standing or walking near the rear of his car. The driver who observes such precautions will never become involved in a starting accident.

### Motorists Play Safety More Than Ever Before

Motorists are giving closer attention to safety features of their cars than ever before as a result of the educational campaigns carried on intensively in all parts of the country, according to a statement of the National Safety Council, whose affiliated local chapters are conducting periodic examinations of brakes, lights and horns.

A report just received from James Sinke, director of public safety at Grand Rapids, Mich., states that during a recent inspection of automobile equipment the examiners found only 374 cars with defective brakes, lights or horns out of 21,179 inspected.

Brakes have been tested for three years in Grand Rapids. During the first year it was discovered that one-third of the brakes required adjustment. The second year only one-fourth of the brakes required attention.

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"My doctor says I can't live long." "Try mine. He has a wonderful way of protracting an illness."

### Scientist Has Found Stars by the Billion

Prof. Frederick H. Sears of the Mount Wilson observatory recently completed counting the stars in the heavens. This seemingly impossible task he accomplished by mathematical calculations, although he could not see even with the most powerful telescope 97 per cent of them. First he divided the sky into squares. Then, 139 of these squares, he photographed all the stars included in each space with the great 60-inch reflecting telescope of Mount Wilson observatory, which collects 59,000 times as much light as the human eye. A count of the stars in the 139 squares showed 1,000,000,000. The 139 squares, however, represented only the 1-2,500 part of the sky and include stars only up to the twenty-first magnitude. So he worked out a ratio between the stars of each succeeding magnitude and by an intricate calculation arrived at the final count of 30,000,000,000,000.

### The Great Necker

Prunella—Who was that boy you had in the hammock last evening?  
Priscilla—I think he was the one we read about in the papers, who strangled the ostrich.

### Academic Prize Went to Skillful Arguer

Heretofore "wrangling" was only another word for disputing, and as in the Middle Ages all scholarship was decided by skill in argument in public, so the senior disputer or "wrangler" was the winner of any academic prize.

Long after this system of public argument had been superseded by the system of written examinations, the name of wrangler had survived, and up to only a few years ago was given at Cambridge to the senior mathematician of any one year, many of the famous scholars of the world being known as first, second and third "wranglers."

Some seventeen years ago, however, the order of senior, second, and so on, "wrangler" was abolished, mathematical scholars being now alphabetically arranged under groups.

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### Woman in High Position

Miss G. Wilbrink of Cheribon, Java, holds a rare position for a woman. She is the chief directorate of the important governmental sugar control station.

Miss Wilbrink, a gold medalist in chemistry and botany, is an expert on the diseases of sugar cane and other tropical plants, in connection with which she has made important discoveries.

### Causes of Fire Loss

In 1924 lightning as a cause of fires ranked eighth. The cause heading the list was exposure, which merely means the loss due to fires spreading beyond the point of origin. Next came matches and smoking; then defective chimneys and flues; stoves, furnaces, and their pipes; spontaneous combustion; sparks on roofs; electricity and lightning.

### "DANDELION BUTTER COLOR"

A harmless vegetable butter color used by millions for 50 years. Drug stores and general stores sell bottles of "Dandelion" for 35 cents.—Adv.

A large part of virtue consists in good habits.—Paley.



### After Coasting

The tug uphill and the keen winter air sharpen appetites. Have ready for them, some hot Monarch Cocoa and Monarch Teenie Weenie Peanut Butter sandwiches—the most delicious and satisfying lunch you can prepare.



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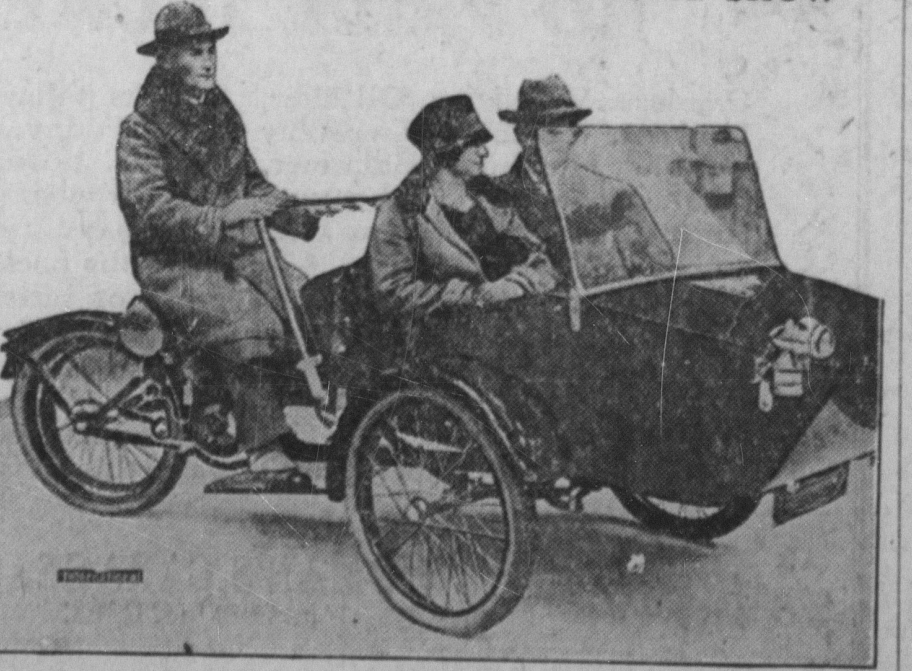
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### Colored Naval Shells

Specially prepared dyes in containers fitted to the nose of shells fired from naval guns and scattered by means of a small detonating fuse have been adopted by ordinance experts to color the water the missiles throw up and thus enable the marksmen on different ships to determine which shots register. The coloring is distinguishable at from 14 to 20 miles, and dyes the entire mass of water. Different colors are given to the participating ships.—Popular Mechanics Magazine.

Every noble work is at first impossible.

### NOVELTY AT BERLIN AUTOMOBILE SHOW



This novelty is quite unique. The carriage work can be taken off and the whole transformed into a tradesman's cart by loosening some screws and fastening on a box arrangement. It was shown at the German automobile and motorcycle exhibit.



## When Winter Comes Good Elimination Is Essential

HABITS of life change with the changing seasons. Winter brings us more indoors; we are apt to get less fresh air and exercise, to eat heavier food and to be less active generally. These winter-time habits impose heavier burdens upon our hard-working kidneys.

Sluggish kidney function permits retention of poisonous waste in the blood and makes one an easier victim of winter's colds and chills. Presence of these unfiltered toxins makes itself felt in many unpleasant ways. One is apt to feel tired, achy and listless — to have drowsy headaches, dizziness and perhaps a dull, "toxic" backache. That the kidneys are not functioning as they should is often shown by scanty or burning secretions.

At such times the use of a stimulant diuretic\* to the kidneys is indicated. Doan's Pills act on the kidneys only. Grateful users the country over recommend them. Ask your neighbor!

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