CHEMICALS FOR WEEDS If They Are Once Stunted They Fund Helps Provide Adequate Edu-

HOW THEY CAN BE USED TO KILL ROOTS.

Copper Sulphate Has Been Found

are likely to remain as the two most cases where the use of some chem- organs. ical may be extremely desirable. A good example of the latter is the case of a grain crop infected with an annual such as Wild Mustard, where it is possible by spraying with to freshen before they are 24 months school fairs have been brought into the control of the individual. Holstein heifers should not be bred and fostered, home life improved, to freshen before they are 24 months school fairs have been brought into injure the weed to such an extent that it is unable to ripen its seeds.

There are also numerous plots of waste ground in towns, miles of roadsides all over the country, railroad tracks, and large areas of stony or rocky ground that cannot be cultivated, where the employment of chemical means for keeping down weeds might be profitably considered.

The spray should be applied in fine, calm weather, when there is a probability that no rain will fall during the next 24 hours. The amount of spraying mixture will vary somewhat with the kind of spraying machine used, but as a general rule, at least 60 gallons are necessary to cover an acre. The spray should be applied while the

weeds are young. the use of some of these the soil remains sterile until the chemical has been washed out by rain. In calculating the strength to be used lon of water weighs 10 pounds.

to a crop of beans or flax.

Common salt or sodium chloride is used in a strength of 20 to 25 per dried, beet pulp may be used, but if cent. It checks the growth of other none of these are available or are plants besides weeds until it has been | too high in price, oilmeal can be used washed out by rain.

kills all kinds of vegetation. of 2 pounds to 60 gallons of water. tion of it when fed under these It is very poisonous and the powder conditions. is dangerous to health if inhaled. It

kills all vegetation.

Carbelic acid is used in a solution of 12 1/2 per cent, or stronger. Orchard heating oil is applied at full strength in a fine mist. It destroys all vegetation, but is not poisonous and does not injure the soil.

Fight Cattle Disease.

is promised, and this time the live usually better flyers and can assist stock industry is responsible for the themselves in getting up and down Dirty eggs should not be used. If departure. A theory is advanced, to much better than can the heavy ones, it is found necessary to set eggs that the effect that the virus of foot-and- The two kinds should never be kept mouth disease is air-borne from the in the same house at night if for no be cleaned by rubbing lightly with continent to Great Britain and other reason than the above. The a damp cloth, care being taken not though pilots of flying machines will height of the perches also brings to remove any more of the natural not be expected to hunt for the dis- trouble if every one is not on the bloom than is necessary. ease germs in the air, it is expected same level. In endeavoring to secure that they will be able to render value the safest place in the house all hatching, eggs that are more than the safest place in the house all hatching, eggs that are more than nor able service by ascertaining at per- fowls will try to reach the highest two weeks old. Neither a hen nor · iods when outbreaks of the disease perch and the lower ones are prac- an incubator will hatch strong tive air currents over infected areas | could not fight their way higher. -which would account for the airborne virus floating along, suddenly the same height and have room dropping to earth.

in assisting scientists, engaged in hens at night, to say nothing of this or a piece of grass sod in the bottom research work with regard to distri- discomfort. No hen likes to be unbution of the foot-and-mouth disease comfortable, nor does any animal, in virus is shed by Sir Stewart Stick- fact, and if we make domestic fowls man, chief veterinary officer to the British Ministry of Agriculture, who, in an interview with the Weekly Dispatch, London, contradicts the erroneous impression held by many who have heard of the proposal to employ airmen in tracing down footand-mouth disease, that the airman's job will be to hunt for these disease germs in the clouds.

"Research," says Sir Stewart Stickman, "is still in the preliminary stage, and it might take years before regults are obtained, but I am convinced, however, fanciful it seems, that the air-borne virus theory is the most favorable one we have."

To Improve Cows.

As practical evidence of their interest in the "Better Sires - Better are disapproved of it is, neverthe-Stock" campaign, which is gaining less, advantageous to have them high it be done at the right time of the recruits rapidly in a majority of the enough so that the birds may feel states, the owners of a large stock safe and at the same time have them farm in Florida have written the Bureau of Animal Industry that the inhabits the one house. owned by them have been made free community sires. The services of a Duroc boar will likewise be made free as soon as he is old enough.

All are fine animals, with pedigrees. "We give the services of these with tuberculosis. You may infect animals free," write the owners, your whole herd by feeding the carbecause this region is cursed with scrub sires. They roam everywhere lingering illness. Such carcasses at will and are a great menace to should be burned or buried deeply. those keeping pure-bred stock. Please tell us what to do to have our farms enrolled in your campaign and our sires recorded."

The offer of the bull is made with the desire to improve the milking qualities of cows. The owners of the bull specify that all cows brought for service must be tick-free. A fee is harged for service to registered Hol-

For Infants and Children In Use For Over 30 Years KEEP CALVES GROWING.

Never Recover. It is a well-known fact that capacity is one of the essentials of a good is being made in agricultural instrucdairy cow and in order to develop tion, both for adults and juniors, is this characteristic the calf must be to be gathered from the report on Useful for Destroying Mustard In hing. A stunted calf will never re- 1919-20, recently submitted to the Grain Crops, But Care Must Be cover from the handicap. The calf Dominion Parliament. Under this Exercised — Spray Should Be should be induced to begin eating act \$1,100,000 is now divided an-Applied While Weeds Are Young grain and hay at as early a date as nually between the nine provinces of and Easily Attacked.

Dossible and there should always be Canada with a view, as the report an abundance of the hay accessible.

Roughage develops capacity in the farming industry of Canada. That digestive organs—an item of import
the objects sought are being attained efficient weapons to use in the com- cow will consume depends largely tion regarding agricultural instrucbat with weeds, there are certain upon the development of these tion as it now exists in this country.



Splendid Type for Dairy.

combination.

acter to begin with and gradually act are being used. it has to be remembered that a gal- changed to a mixture of grains that will supplement the roughage; 300 Sulphuric acid or oil of vitriol pounds ground oats, 300 pounds has a corrosive effect on the spray- ground corn, 100 pounds wheat bran ing apparatus, and can be used only and 100 pounds gluten feed being a ditions of winter management, and in a weak solution, varying from 3 good combination to go with the often under range conditions, the to 10 per cent. It has no injurious roughage mentioned above. The eggs produced in time for spring effect on wheat, oats or barley crops, grain can be increased a fraction of setting are sadly lacking in number and has a fertilizing effect on the a pound a day so long as there is an of specimens likely to hatch satis-Iron sulphate or copperas is used as there is no response to the in- good return for the time and labor in a solution of 15 to 20 per cent., crease it must be cut down until spent in attending to their incubabut cannot be applied with safety there is a falling off in the milk flow tion, the poultryman must give careand then the increase may be begun ful attention to selection of eggs Copper sulphate or bluestone can again. When on full feed they will intended for setting. Eggs that are be used instead of iron sulphate, but be consuming about one pound of abnormally small and poorly shaped only in a solution of 1 1/2 to 2 1/2 per grain to every 3 1/2 pounds of milk should be eliminated, as should

In the absence of silage or roots, in the grain mixture to advantage. Caustic soda or sodium hydrate is In the absence of silage and roots, used in a 5 per cent. solution. It the cows will consume a large quantity of alfalfa. Sometimes it is ad-Sodium arsenite is used at the rate visable to chaff and moisten a por-

Perches In Chicken Houses.

When making readjustments in the poultry houses it is always well to look over the perches and see if they meet the requirements of the birds. If fowls are of the heavy, large breeds the perches should not be as high, for many ill effects are the result of jumping from high A new line of activity for airmen perches. The lighter weight fowls are ur, whether there existed nega- tically useless except to the ones that

Always aim to have the perches at | received proper care. enough on them to avoid crowding. Light on the part airmen can play There are dangers in crowding the three to four inches of damp earth of the hens we must give them the we can, resembling that of their natural state.

> likely to injure the legs of the hens. stinct of the fowls to want to roost | when the chicks are hatched. high, away, as they suppose, from their enemies, as they do in the wild state; and while rats should not be permitted to infest the houses there is less danger from them when the fowls are high up. Then, too, the little streams of air (that should not be allowed to flow in on the hens) will do less damage if the roosts are not too low. While very high roosts

Don't Feed Dead Carcasses.

Don't feed dead carcasses of cattle o hogs uptil after a careful autopsy has shown that they are not affected cass of a cow that has died after a the fall and winter egg production.

Buying Small Farm Tools. farm should be purchased on one or- entirely to chance. The farmer's der. This will have time and, usually, problem is to determine what parts money. Also, it will entail a total expenditure sufficiently large to impress the farmer with the importance | these portions for wood crops just of giving systematic care to his as he would develop land for other

A Kansas Family Problem.

(Emporia Gazette) An Emporia family takes the fam- The Farmers' Sun repeats the lie ly dog to church once in a while that Premier Meighen referred to Last Sunday the dog was tied to the the farmers as Bolshevists. Every motor car during the services. It time the Sun publishes that, it pub-was a question whether to take the lishes a lie, a deliberate lie, and a dog away to keep from disturbing lie that every farmer ought to be the peace or stop the choir to keep ashamed of even if the Farmers' Sun from disturbing the dog.

USE A MILLION A YEAR.

cation for Country Life.

An insight into the progress that

ance as the amount of feed that a is shown by the review of the situa-Schools have been established, col-Heifers should not be bred too leges extended and brought nearer iron sulphate or copper sulphate to old, as a rule, and a great many being, and knowledge in every branch injure the weed to such an extent would do better if given 26 or 28 of agriculture and domestic science months. Heifers should be in good has been made more readily available. How the funds forthcoming under the act are applied is illustrated by the fact that of an allotment \$256,413 was devoted in 1919-20 to the Agricultural Reresentative system, and \$644,070 to instruction and demonstration. Boys' and girls' clubs were extensively aided, and wo-men's institutes, homemakers' clubs and similar organizations, had their funds augmented in such a manner as led remarkably to their growth and increased spread of their usefulness. How important a figure in the direct advancement of agricultural instruction the act is, will perhaps be best appreciated by the fact that in the six years of its existence \$1,890,condition at time of freshening, al- 143 has been allocated to colleges though not fat from an excessive and schools of agriculture, exclusive The chemical substances that are carbohydrate ration. After freshen- of veterinary colleges, to which a most employed for killing weeds are ing, they should be worked up to special grant of \$20,000 is made ansulphuric acid, iron sulphate, copper full feed very gradually, receiving nually. The problem facing those sulphate, common salt, caustic soda, all the roughage they care to con- responsible for educational policy, sodium arsenite, carbolic acid, orch- sume without waste; alfalfa or says the report, is to provide adeard heating oil and fuel oil. After clover hay fed in connection with quate educational opportunities for silage or roots being a very good those destined for country life, and that in large measure is the purpose The grain should be light in char- for which the funds granted by the

Spring Setting.

Even under the best possible conincrease in the milk flow, but as soon | factorily, and in order to ensure a



A Good Chicken Run.

those having thin or very poor shells. have been slightly soiled they should

chicks from eggs containing weak germs or from those which have not

In preparing the nest for the sitting hen, it is advisable to put from of the nest before the nesting material is put in to provide moisture. When the hen becomes broody, and before she is transferred to the nest privileges and liberties, as nearly as | for sitting she should be dusted with insect powder of audium fluoride. In doing this hold the hen by the feet High jumping from the roosts is with the head down, working the powder well into the feathers. This and if the birds have not attained should be repeated about the eightheir growth they will be more liable | teenth day of incubation so as to be to deformities. It is the natural in- sure that there are no lice present

Hatch Early.

With the average small-farm flock where hens of a general purpose breed are kept, it is most satisfactory to let the hens do the hatching. If the hens are of a non-broody breed, however, it is necessary to use incubators or to purchase baby chicks. Whatever the method of hatching, it is most important that

on the level for the whole flock that with different localities, being The proper time of hatching varies earlier in the south and latest in the extreme north. The aim should be to hatch the chicks at such a time as will allow the pullets to reach their full development and begin laying in October or November, as these earlier maturing puliets must be depended upon very largely for

The Farm Wood Lot.

Too often the size of the farm wood lot, the material it contains, If possible all small tools for the and its value to the farm are left

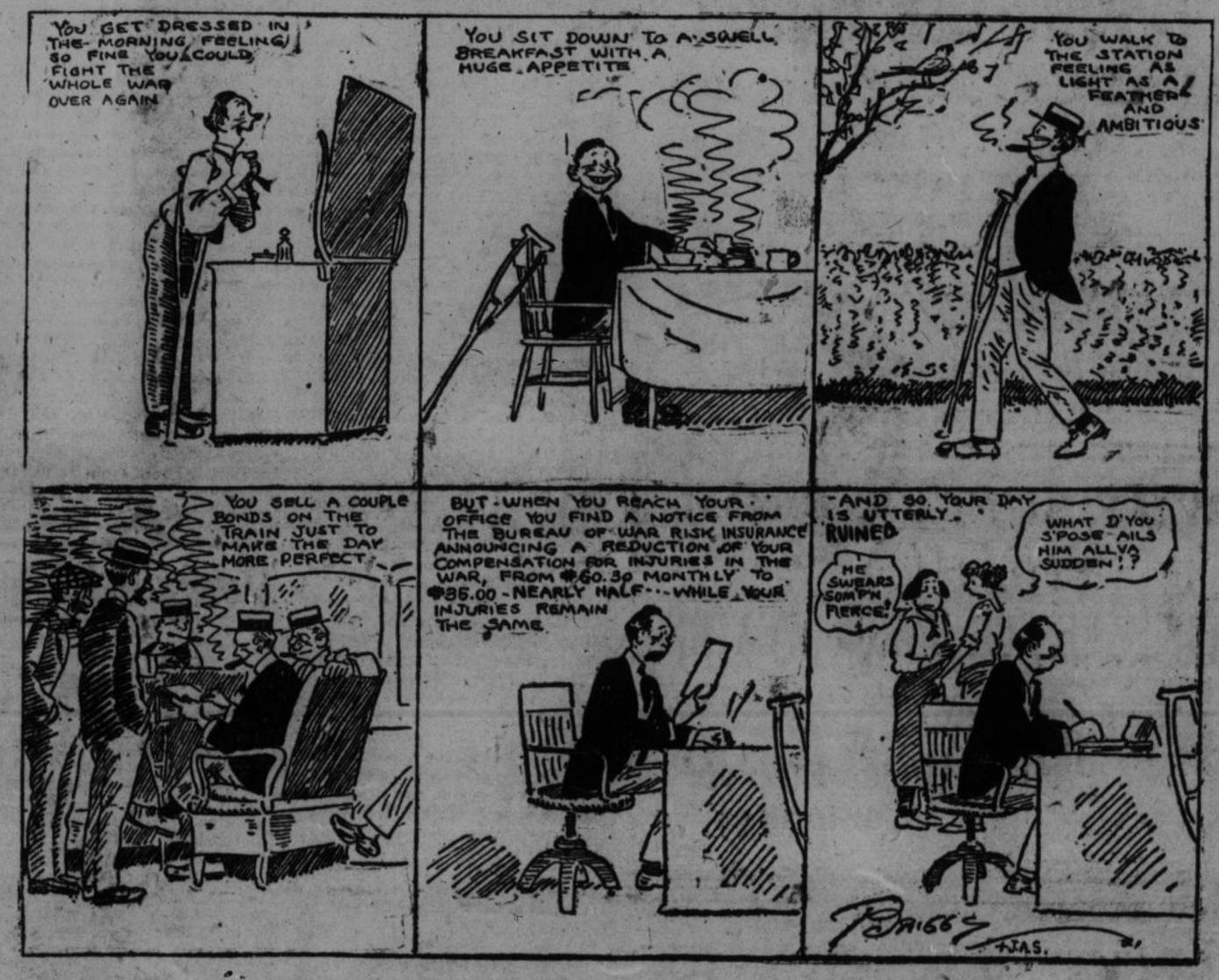
A Repeater.

(Winchester Press)

AIN'T IT A GRAND AND GLORIOUS FEELING?



HOW TO START THE DAY WRONG



OH, MAN I

