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a monthly bulletin published by the Commission of Conservation, Ottawa, Canada.

VOL. IV

APRIL. 1915

NO. 4

Sewage Disposal

The Installation and Use of Septic Tanks for Sewage Treatment by Isolated Homes

In small towns and on the farm. common system of sewage disposal is that of privy pits or cesspools. This method fouls the ground and air, holds the wastes a state of putrefaction which gives off foul gases, and the liquid leachings are liable to injure the quality of wells and springs.

During recent years, many inestigations of sanitary methods for the disposal of sewage of isolated houses have been made The principle upon which the successful treatment of sewage depends is briefly as follows: When the air contained in the soil is brought in contact with dead organic matter in a finely divided state, a complete transformation takes place by the natural processes of oxidation and nitrification. As air is necessary for this purpose, it is essential that the waste be deposited on or near the surface. If the ground is saturated for a long time, purification of the liquid ceases; conseuently the principle of intermitent operation of the disposal plant necessary. The process of applyng this principle involves the colection of the material away from he house, the settling out of as vent any nuch of the solids as possible aided y anærobic action, and the inter- ber.

the collection of the material and at once. his can be obtained and piped nto the house by means of ydraulic ram operated by a small tream of potable water or by vindmill or pump force.

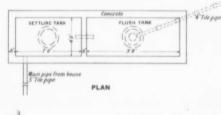
It will usually be necessary to pose of the effluent from the ettling chamber or septic tank by means of sub-surface drainage.

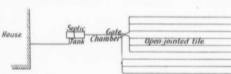
Illustration No. 1 shows a good

chamber, where the solid matter readily. o a greater or less extent is deof the sewage, the decomposition frost will affect the ground to a will lead to a reclassification of

To Gate valve

LONGITUDINAL SECTION





Subsurface irrigation for level ground

Cut No. 92

Design for Concrete Septic Tank

in the bottom of the settling cham- of the ground above the tile with nittent application of the effluent chamber from time to time, and, mulch in order to prevent the frost to the natural soil by surface or if undissolved solids accumulate, affecting it. The superficial area sub-surface irrigation, or to a to have them removed, probably of the disposal plant outlined pecially prepared soil, as a filter about once a year. This accumulation should then be carried to feet by 100 feet bed. A water supply is necessary for the field and spaded into the soil

The cost of a tank built of concrete, such as the one shown, will depend on cost of cement, wood for forms, etc., but the cost of all means of a deep well fitted with the material including siphon and complete rest while the other is in cast-iron manhole covers will be. approximately, \$60.00.

To secure subsurface disposal. 3-inch agricultural drain-tile are laid with open joints, the bottom of the tile coming within 12 inches of the tile coming within 12 inches for clay there should be at least of the surface of the ground. These three feet of tile per gallon. ype of tank for handling the ewage for a family of five and drains should be laid with a slight W. J. D. having a capacity of 350 gallons and fall, say two inches per 100 feet. The ground should be naturally All sewage coming from the or artificially so well drained that ouse passes into the settling water will descend through it

In a country with as severe a of the solids is so active as to pre- depth of four or five feet, it would these lands.

serious accumulation be necessary to cover the surface It is necessary to inspect the straw, leaves, or other kinds of This accumu- above would not be greater than 40

Illustration No. 2 shows a subsurface system adapted to level ground. The tile lines are divided into three series leading from the gate chamber, so that the ground utilized by two lines is given a The length of tile required will depend upon the porosity of the soil. For a porous soil, one foot of tile for each gallon of sewage should dispose of the liquid;

The daily press state that the province of New Brunswick will undertake a scientific survey, exosited. Owing to the character climate as parts of Canada, where acres of Crown lands. The survey

Electric Cooking

Comparative Tests Demonstrate its Advantages in Economy and Convenience

Electricity is rapidly replacing gas and other fuels for cooking purposes. Thus, the electric iron, which a short time ago was considered a luxury, has become a necessity and a money saver in the most humble household.

For cooking, electricity has long been known to be superior to older methods, but, in the past, the price of both the energy consumed and the necessary appliances has been so high as to prevent its general

Of late, electric central stations have become aware that it is to their advantage to offer a very low rate for this use, and prices ranging from 1c. to 3c. per k.w.h. are now quite common. As a result, more appliances are being used and, as the consumption increases, the manufacturer lowers his price. As an example: two or three years ago, a 5 lbs. electric iron cost \$5.00; to-day, a better quality can be obtained for one half that price.

Apparently the science of electric cookery is to-day (speaking from an economic standpoint) just about where electric street railway operation was twenty-five or thirty years ago, viz. a recognized possibility, of which those familiar with results already of tained were most sanguine for the future. Lut which the Jul lie at large regarded skeptically as an interesting experiment for which the manufacturer-not they-must foot the

Fortunately, the develorment of electric cookery methods has been more gradual and based on more carefully and broadly obtained data than was the case in electric railroading. At the present time its assured place in household and civic economies is mainly a question of publicity and of the minor improvements inevitable in the evolution of any line of apparatus intended for general use.

One peculiar feature of electric cooking, aside from safety, (no matches, no leaky pipes, no open tending over a period of three or but unlit valve cocks) is that in four years, of its se en million cooking meats, fish, fowl, etc., cooking meats, fish, fowl, etc., whether baked or broiled, the actual loss in weight or "shrink-age" is much less than when the

cooking is done by coal, charcoal. Smoke and

As figures constitute the most convincing argument, the following table is taken from a paper read before the Canadian Electrical Association last year. It shows the comparative cost of cooking various articles on the electric range and gas range, electricity being taken at 2 cents per kilowatt-hour and gas at \$1.00 per thousand cubic feet.

ARTICLE	Duametic.	ELECTRI	ELECTRIC RANGE	GAS RANGE	ANGE
		Minutes	Cost (Cents)	Minutes	Cost
Roast Beef	4 Be	001		1	
Steamed Potatoes	o libra	109	2.0	70	3.9
Owing	2 10S.	10	0.3	45	0.5
Broiled Steak	1 1 1D.	145	0.7	65	1.2
Bread.	Oven	57	6.0		
	full	2.2	2 5	22	
Apple Pies	2	09	1.5	20	3.0
Custard Pies.	2	58	1.9		
Boiled Chicken	3 lb.	96	1.3	101	1.4

In many localities, particularly in Ontario, the rate for electricity is as low as 1c. per kw. hr. and the cost given under electric range will be just one-half that shown in the table

As a further confirmation of the low cost of electric baking, we may take the figures obtained in a test carried out in a western city where batches of three ordinary domestic loaves of bread were baked, one batch in a modern gas range and the other in an electric range. Taking the same comparative rates, that is, electricity at 2 cents per kw. hr. and gas at \$1 per thousand cubic feet, the cost with gas was 6.0c. as compared with only 2.8 cents with electricity

In general the experience of those who have tried electric cooking has brought out the following

(1) Joints of meat and steak are cooked better and lose less in weight than by other means, the electric method requiring also a shorter period of training to en-

able the attendant to secure good results. (2) The certainty that, if the same time is given for the same operation, exactly the same result

will be produced. (3) The convenience and cleanliness and the avoidance of an unhealthful atmosphere in the kit-

(4) Where rates for electricity are reasonably low a saving is effected.—L. G. D.

May be Eliminated by Process of Electrical Precipitation of Suspended Particles

Owing to the conservation move- rodes. ment in the United States and to the agitation of farmers against the cessfully for precipitating smoke smelter smoke nuisance, an effi- cement dust, fumes from acid

nected to a suitable source of high Fume Nuisance electric potential. To keep the r des through the gases, unidirectional direct current is used. The gases passing between the electrodes become ionized and the suspended particles removed by the forces acting between the elect-

The process has been used succient process of electrical precipita- plants, chlorine gas from electro-



Exhaust Flue from the Treater at the Hooker Electro-chem Falls, N. Y.—Voltage Off.



Cut No. 94 Exhaust Flue from the Treater at the Hooker Electro-chemical Company's Plant at Niagara Falls, N. Y.—Voltage Applied.

tion has been developed. operation, put it within the reach tries. of almost any plant where its installation is desired or where a nuisance exists.

The process is used for removing either solid or liquid particles carried in suspension in air or other gases. This is done by submitting the gases and suspended particles to the action of a strong electric field maintained between so-called collecting electrodes" and "discharge electrodes," the latter being

REASONS FOR TOWN PLANNING

The need for town planning in Canada is greater to-day than ever tendency to urban growth; (2) Growing size of large cities; (3) Separation of intimate connection

If the clothes make the man, between manufacturer and worker; safety is rapidly transmitted to

The chemical plants, zinc oxide from comparatively small cost of the roasting mills, tar from illuminatinstallation, and the small amount ing gas, and fumes and dust from of electric energy necessary for its smelters and many other indus-

> It is not improbable that this process could be successfully used for collecting the "mist" from sulphite pulp plants and for overcoming the round-house smoke nuis-

As an example of the power used, the plant shown in the illustration treats 30,000 cubic feet of gas per minute with a power concharge electrodes," the latter being sumption of from 3 to 5 kws., voltinsulated from the former and consistency J in J in

hazard growth; (5) Changing methods and increased use of means of transportation; (6) Need for better arterial roads; (7) Danbefore because of the: (1) General gers of congestion and unhealthy density of building.

Educating Fishermen

Modern Methods of Handling Necessary to Increase the Use of Fish

Fish is certain to become a mush more important supplement to the meat diet of Canadians than it at present. It can be producmore cheaply; it possesses splended nourishing qualities, and, when properly cooked, is a most palatable food.

Unfortunately, much of the fish offered for sale is not of a high quality. This may, in part, le traced to the crude, careless and often wasteful methods that are used by the fishermen in taking and handling fish, and the fact that ach methods are used demonstrates the need for providing technical education for fishermen.

While Canada possesses one of the richest and most varied fisheries in the world, they are, in most instances, being exploited by men who have little or no technical knowledge of the natural history of fish, the proper methods of pr paring fish for market, as well as of other aspects of the fisheries industry. Tradition plays a large part in the lives of many fishermen. It is extremely difficult for them to shake off the obsolete practices of their fathers and adopt those that experience in other countries has shown to be superior.

During the present winter the Canadian Fisheries Association was organized under very favourable auspices. It is gratifying to note that the new association was formed for the "development of the fishing industry on commercial. scientific and educational lines The basic problem to be solved in building up the fishing industry and in popularizing the consumption of fish is the education of the fishermen.

Schools for fishermen exist in practically every European maritime nation. It is in Japan, how-ever, that fishery instruction is being carried to the greatest perfection

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Fish is a delicate food product, the handling of which requires a great deal of scientific knowledge and technical skill. This applies especially to the first stages of taking the fish and preparing them for market. Consequently, unless improvement can be brought about in the methods of the fishermen, the development of the fisheries industry will be needlessly slow and wasteful. The educational branch of the Canadian Fisheries Association has a splendid opportunity for useful work.-A. D.

At a recent meeting of the National Housing and Town Planning Council in Birmingham, the secretary, Mr. H. R. Aldridge. asserted that, since 1900, from 60,000 to 70,000 houses at a rental of less than £20 (\$97.33) let Canadians see to it that the (4) Increased rates of cost of the workman to the advantage existing housing accommodation of Great Britain.

Commission of

CANADA

SIR CLIPPORD SIFTON Chairman

JAMES WHITE Assistant to Chairman and Deputy Head

CONSERVATION about the first of each month. Its corporation labourers. information relative to the natural articles covering town-planning and public health.

The newspaper edition of Con-SERVATION is printed on one side of the paper only, for convenience in clipping for reproduction

Conservation is mailed free to covered by the work of the Commission

OTTAWA, APRIL, 1915

The increasing industrial use of wood alcohol has created conditions of carelessness in the handling of it. Wood alcohol is an active poison, and all bottles, cans or other containers of this liquid should be plainly and conspicuously marked "Poison.

Mr. Thomas Hoskin, of Grafton, president of the Mutual Fire Underwriters' Association of Ontario, at its annual meeting, said: 'The fire waste in Canada recently is the worst in the whole world The loss in Canada would pay off the national debt in twenty years. It is seven times as great per capita as it is in Great Britain, and we are paying five times as much for our insurance as they are in Europe.

The thoughtlessness of employees, and their willingness to " a chance," even when the possibility of accident is well understood are two of the greatest obstacles in the way of efforts to secure safety to workmen. Employees should be made to understand that, even under compensation acts, the employers pay for accidents with dollars, while the workers pay for them with eyes and hands, and even with life itself

At the conclusion of an address by Dr. C. C. James, Commissioner of Agriculture under the Agriculture Instruction Act, 1913, at the sixth annual meeting of the Commission of Conservation, Sir Clifford Sifton placed the position of the Commission on record as follows: "I want to ay to him (Dr. James) that whoever may or may not support him in the work which he is doing, so far as the Commission of Conservation is concerned. its members, its staff, and its officers, he can rely on our unswerving and constant support and that of all those whom we influence or control, in the work which he is doing.

Conservation That the value of trees is not appreciated is an oft repeated appredicted is an ever-statement, but there is an ever-widening circle of our citizens who widening circle of our citizens who Efforts, have Secured Some pared to defend them.

In Toronto, Mr. Justice Middle-\$500.00 for sixteen willow trees published property on Toronto island, by

While trees are, to a great extent, resources of Canada, their develop-ment and the proper conservation associated with them a corporate of the same, together with timely interest, in that the general effect of their presence adds materially to the comfort of the people and to the beauty of their surroundings. It may be too much to expect that all owners of property containing trees will recognize their value from this standpoint. There those interested in the subjects is no authority to protect trees from wanton destruction by their owners, but education on the subject may secure the results aimed Horticultural societies should include the protection of trees in their spheres of activity, though, unfortunately, municipalities can not prohibit, by by-law, the removal of trees from private property. To maintain a nuisance on private property is a contravention of the law and the destruction of trees, with their beauty, shade and comfort, though legally permissible is not less blameworthy.

FEDERAL AUTHORITY OVER FISHERIES

Representative Linthicum, of Baltimore, has introduced into the United States Congress a measure present control of their fisheries. and to vest this authority in the federal government. The bill has not, yet, been passed but its ultimate enactment is foreshadowed by the issuance of an executive order which secures, temporarily, its main objects. The proposed legislation is not general in scope, its specific aim being to correct abuses connected with the Chesapeake Bay fisheries, Hitherto, the individual states have had control, but have failed to exert it with any degree of uniformity or efficiency. The natural result has been a rapid decrease in the productivity of these fishing waters.

The situation is one of interest to Canadians. The experience of both Canada and the United States proves that, if natural resources are to be wisely administered, the limits of federal and provincial or state jurisdiction must first be clearly defined. In both countries this has been strikingly exemplified by difficulties which have cropped up in connection with the control of fisheries and, in Canada, the subject has caused long and tedious litigation. Mr. Linthicum's bill forms part of the wider movement to secure for the United States what Canada already has, viz... sufficient federal authority to safefrom depletion.

DESTRUCTION OF SHADE TREES | Co-operative Fire Protection

Excellent Results

The co-operative idea in forest ton recently allowed judgment of fire protection has gained real headway in eastern Canada during which had been cut on private the past year. Not only have the two existing forest protection associations in Quebec made satisfactory records, and increased in scope and stability, but there is a movement in favor of organizing a third association, which will probably materialize for the season of 1916. The territory embraced within the latter includes the upper head-waters of the Ottawa river in the province of Quebec, and the new organization will be known as the Upper Ottawa Forest Protection Association

The neighbour of the proposed new association on the east is the Lower Ottawa Forest Protection Association, which was organized in in the spring of 1914. The territory patrolled in 1914 comprised 11,812 square miles, or 7,559,680 acres, on the watersheds of the Gatineau, Lievre, Rouge, Nation and Cou-longe rivers. The staff consisted of a chief inspector, three inspectors, and 52 rangers. Although the severest drought of many years occurred during May, June and July, the fire loss did not exceed eight-tenths of one per cent of the amount of timber protected. total number of fires extinguished was 154, of which 72 were caused by settlers, 15 by fishermen and sportsmen, 17 by lightning. by drivers and woodsmen, 4 by Indians, and 25 of unknown origin. The total cost of the patrol and law fire-fighting work was \$1.91 per square mile, or less than threetenths of one cent per acre

The territory of the St. Maurice Forest Protection Association lies Lower Ottawa Association, and comprises 12,707 square miles, or 8,132,416 acres. This represents an increase of 853,363 acres over the previous year. This association is the pioneer of its kind in Canada, having been three years territories under the supervision in existence. Its staff during 1914 of the association. consisted of a manager, clerk, six reported, of which 22 were set by river drivers, 10 by fishermen, 56 by railways, 80 by settlers, and 46 unknown. The balance were due to miscellaneous known causes. The balance were due The total cost of patrol and firefighting was \$2.25 per square mile. or about one-third of a cent per midsummer.

The prosecution of offenders C. L. against the fire law has greatly lessened the fire evil, as has also the issuing of burning permits sufficient federal authority to safe-guard fisheries and other resources District No. 1, where there were Ontario Safety League's work. 105 fires in 1913, only four were there were 241.

Arbour Day in Canada

It should be a General Public Holiday, for Arboreal and Clean-up Purposes

In Canadian schools it has been the custom for years to observe Arbour Day in a greater or less degree. This custom should receive increased attention from educational bodies and the general public, for the country has a great need for the planting of more trees and shrubs, both in school and residential grounds. Canada is so dependent upon her forests that any measures which may be taken to extend the knowledge of the pupils respecting trees and the need for their protection will serve a useful purpose.

In each of the provinces, with the exception of British Columbia, provision is made for the celebration of Arbour Day. In most provinces it is a public school celebration only, the regulations requiring its observance by the planting of trees and shrubs in school grounds. It should be made a public holiday, instead of being confined to the schools, and the

e of its observance should inude the annual clean-up, particularly as it is usually celebrated early in May. In this way, more general interest would be aroused in the work, and greater results secured, from an arboreal as well as an artistic and sanitary standpoint.

reported in 1914. The provincial to deprive several states of their railroads, 9 by trappers and government has vigorosly prosecuted offenders against the fire

Of portages and trails, 514 miles were cut and cleaned, and six lookout stations were erected. Leaflets on forest fires have been issued to school children by the next on the east of that of the Association in co-operation with the provincial Department of Lands and Forests and the Department of Public Instruction. Also twenty-one thousand fire posters and one thousand pamphlets were distributed throughout the various

There can be no doubt that inspectors, and 54 rangers. Two through co-operation, much better hundred and thirty-one fires were results in fire protection can be secured at a smaller expenditure than under the old plan of individual effort. Not only do the limit-holders combine their efforts. but the provincial government cooperates actively also. It seems natural that the co-operative idea out one-third of a cent per of fire protection should spread The cost of fire fighting was rapidly wherever the burden of unusually high, on account of the fire protection is placed primarily extreme drought of the spring and upon the limit holders, as is the case in both Quebec and Ontario.-

> For the year 1913, there were 291 deaths by accident in Toronto,

Back Yard Gardens

Simple Instructions for Those Interested in Doing Their Part to Increase Production

The accompanying plan for a small garden is intended as a guide to those desiring to make a beginning but who do not know quite how to go about it. It is not expected that the plan will be followed absolutely, as some may not wish to grow, everything mentioned the surface. here, while others may desire to add some vegteables which are as peas, spinach, radishes, lettuce, not included in this plan. The en- carrots and onions may be sown deavour has been to make the as early as the ground is ready

pulverized before planting the seeds Free the soil from rocks, sticks, large clods, strawy matter, etc. If the soil is heavy clay it will be improved by adding a little sand and some well rotted manure. is better that the soil be ploughed or spaded in the fall. If, however it has not been previously worked up, apply rotted manure if available and turn the soil well over in the spring, and, if in sod, turn the sod well under and pack down. Then prepare a fine seed bed on the requirements of his table

Sowing-The hardier seeds such

into the best physical condition three inches apart, beans to four late summer or early autumn when possible, that is, have it finely inches and peas to one inch apart, the vines are beginning to die down three plants in each space. experience he will be able to plan

and manage a garden which will more fully suit his location and to the attractiveness of the backyard and may be arranged according to individual taste.

the size of the one here shown, if on good soil and properly cared for, will yield an abundant supply of fresh vegetables for the table of an not take much time and, as re average family during the entire growing season.

Residents of cities, towns and municipalities going in for vege-table culture should send to the Publications Branch, Department of Agriculture, Ottawa, for one or more of these publications:

No. 5—Asparagus, Celery and Onion Culture, by W. T. Macoun. No. 10-Tomato Culture, by W Macoun.

No. 11—Cabbage No. 11—Cabbage and Cauli-flower Culture, by W. T. Macoun. Nos. 7 and 8, Profitable Field

Root Varieties, by F. G. Brown Also the bulletin entitled The Vegetable Garden, dealing with the cultivation of tomatoes, onions, cabbage, cauliflower, celery melons, watermelons, cucumbers, beets, squash, pumpkins, carrots, parsnips, turnips, salsify (or oyster plant), radishes, peas, beans, corn, eggplant, peppers, spinach, lettuce, parsley, sweet herbs, asparagus and rhubarb.—F. C. N.

Selection of Seed Potatoes

Of all the factors in potato growing, selection of seed is by far the important. Had we bred our Shorthorn cattle as many of us have been in the habit of selecting and breeding our seed potatoes. we would now have no breed of Shorthorns. If we used only the culls and scrubs to breed from, our breeds of stock would soon run It has been careful selection and the application of scientific principles of breeding that has brought our pure bred live stock up to the present high standard. One reason why potatoes on many farms in this country have degenerated is that culls, screenings and small potatoes have been planted.

hitherto been followed, the seed have power to investigate fires for this year's crop will have to be which were deemed of suspicious taken from the bin. Potatoes nature and to prosecute where which are of medium size, smooth, necessary. No further action has free from disease and true to the yet been taken under this legislatype of the variety being sown, tion, and the appointment of a

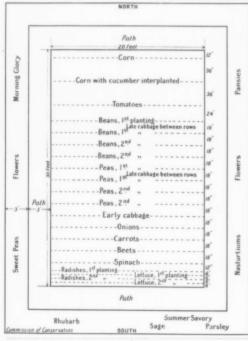
Corn may be planted in hills the best and most vigorous hills about three feet apart and thinned should be marked by putting down to three or four good plants to a a small stake or twig. hill. Cucumbers may be planted showing most vigour of vegetation in the south row of corn between will usually give the best yield of the hills and thinned to two or tubers. When the crop is har vested, any poor hills among those The crops here mentioned are marked should be discarded and likely to be successful with the the rest saved for next year' amateur gardener, and as he gains planting. One farmer doing illus tration work for the Commission of Conservation planted potatoes thus selected and ordinary pota When harvested toes side by side. A border of flowers will add much four rows from the selected seed yielded ten bushels per row, while the four rows on either side of the A garden ordinary seed yielded seven and shown, if one half bushels per row. This was a gain in yield of 33 per cent.

This method of selection does peated experiments have shown it to be the means of substantial increases in yield, it should be more generally practised .- F.C.N

Canada's Fire Losses

With a fire loss averaging over No. 49—The Potato and Its two million dollars per month, or Culture, by W. T. Macoun. sixty-seven thousand dollars per day, the fire situation in Canada has reached the stage where some steps must be taken toward discovering the cause and evolving some means for a large reduction of this annual toll. Fire commissioners agree that a large proportion of fires are of deliberately incendiary origin, that a still larger percentage are of unconsciously incendiary, and that a not inconsiderable number are the result of carelessness or neglect. The number of fires resulting from causes beyond human control constitutes almost a negligible quantity in the year's total. How this situation should be handled is a difficult The law prescribes question. punishment for arson, but, under present conditions and with the machinery available, it is exceedingly difficult to secure convicting evidence. The insurance companies, being private corporations, cannot be expected to prosecute: unless the amount at issue is sufficiently large and the evidence is conclusive, it is cheaper for them to pay the loss than to contest it. The police departments of our

cities are not interested in fires unless it be shown that there are suspicious circumstances surrounding the occurrence. Even should this be demonstrated, there are no trained men connected with the police forces qualified to thoroughly investigate the circumstances. The Ontario legislature at its session in 1914 passed an Act to appoint a fire marshal, whose duty it would be to study the question of the If no method of selection has annual fire loss. He would also



design simple and with few paths. The tender seeds such as corn, This plan is made for a lot 33 feet cucumbers and beans should not garden required.

should be at the north, while the low-growing plants should be at the south, to allow as much sunlight as possible to enter.

Seeds-It always pays to get the best seed. Buy from a reliable

wide and of sufficient depth back be planted until the ground is of the house to allow about 40 feet warm and the danger from frost is of land for garden purposes. Larger past. When planting, cover seeds lots can be arranged according to uniformly and then firm the soil the space available and size of over them. This hastens germination. Lettuce, spinach, radishes, The crops should be arranged to carrots and onions may be covered have the slope, as pertains to one-half inch in depth, beets one height of crop, towards the south. inch; while corn, beans, peas and That is, the tall vegetables, as corn, cucumbers may be sown from one and one-half to two inches deep Sow plenty of seed and thin out after the plants are up.

Thinning—Spinach need not be thinned. Beets may be thinned to about three inches apart, and those thinned out used as greens. Soil Preparation—Put the soil Carrots may be thinned to two or should be selected. During the fire marshal is still in abeyance.