

# GARDENING Without Soil

## Made Easy By Science

*The Modern Marvel  
of*

# HYDROPONICS

We live in a wonderful age of science where nothing seems impossible. It is only sensible to take and use these marvels offered to us for better living conditions, saving of time, labour and waste.

A revolution in horticulture seems imminent when "the good earth" is no longer necessary in the production of flowers of tropical magnificence and fruits of rich, nutritive value as well as beauty. We read of grain grown on trays in large cabinets, fed on mineral salts, with con-

trolled temperature and light, producing in ten days fodder on one square foot to feed a dairy cow for one day!

The use of scientific chemicals in connection with the soil is a problem of intensive study.

The study of Hydroponics is a valuable advance in this study, bringing scientific knowledge to the farmer, the nurseryman, the horticulturist and the home gardener that can revolutionise his methods—and his profits.

### WHAT "SICK SOIL" MEANS

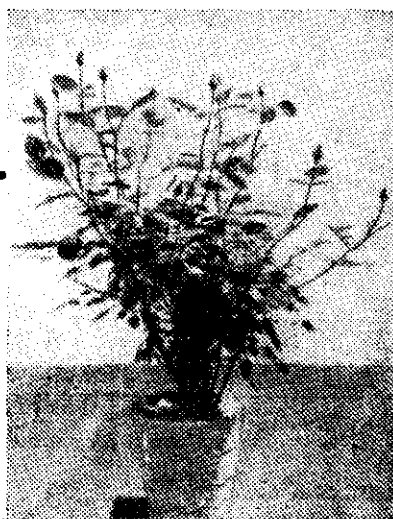
Yes! Soil can become sick; hence sickness in herds that are dependent on pasture, and hence too, deficiency in human diet. Lack of knowledge of the use of artificial manures can do untold harm. The study of Hydroponics helps to link the grower of crops with the latest scientific knowledge to avoid bad results. The "Hydroponic Institute" now solidly established and appreciated in New Zealand, has a membership of nearly 2,000 within nine months, composed of enthusiastic modern-thinking men and women who realise its importance to the very life of New Zealand's industries. Readers will remember the fine exhibit at the Centennial Exhibition where, under adverse conditions as to weather, over 100 varieties of plants were successfully raised on a mineral diet. Results amazed onlookers. In the small space of a few feet two test crops of potatoes, skinless floury potatoes, were grown at the stand. Two crops of delicious strawberries were grown and enjoyed by visitors. Ripe tomatoes (in winter) were eyed enviously by housewives.

Imagine exquisite spring flowers all the year round . . . roses in mid-winter, luscious green vegetables and fruits at all seasons, easily, economically grown in a small space without any soil whatsoever.

Enrolment in the Club in New Zealand is unfortunately of necessity limited owing to war conditions, although supplies of minerals are available for a limited membership for at least two years. Members can rely on that. The National War Effort demands increased production, especially of health-giving vegetables. Avoid the labour of heavy soil work. Use a small yard or space. Use science. Use Hydroponics—by joining the Institute without delay.



(Above and right): Two photographs of a bush of McGredy's Yellow Rose, grown indoors in winter, using sand culture. Photographs taken 8 weeks apart. Note 13 buds on second photograph.



Tomato plant growing in sand fed with nutrient solution from the seedling stage. It has yielded more than 20lbs. of fruit. Note the small size of the crock.

### COUPON

To the Secretary,  
HYDROPONICS INSTITUTE,  
P.O. Box 632,  
119A Lambton Quay, Wellington.

I enclose herewith .....

Please rush information and supplies

to .....

### Limited Membership Offered NOW

Accept one of the following offers to further your interest in Hydroponics:—

1/- stamps, P.O. or cash, brings you illustrated magazine "Hydroponics," packed with all the latest news from members and overseas authorities.

21/- enrols you as a Life Member and entitles you to all necessary supplies for full 12 months, with privilege of obtaining future supplies at cost.

Life Members receive free on enrolment:—

1. Minerals for 25-gallon tank for 12 months' supply.
2. Comprehensive Manual, including plans and diagrams of suitable tanks.
3. The quarterly publication "Hydroponics" for first year.
4. A liberal supply of sundries, fibre, wood wool, etc.
5. Free 5-gallon tank, complete with wire tray, all ready for use.