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COUNTRY HOMES
FOR BUSY LITTLE
• PEOPLE •

LC

Western coil bacteria company, San Francisco

COUNTRY HOMES
FOR BUSY LITTLE
PEOPLE

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442 SANSOME STREET
SAN FRANCISCO

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THE COUNTRY HOMES OF BACILLUS RADICICOLA

THE nodules existing on the roots of that family of plants called Leguminosae (Pod-bearers) are the homes of the little wonder workers of the world, a little family of Bacteria who have the power to extract from the atmosphere that essential to soil fertility—Nitrogen.

Such great workers are they that they not only supply the host plant with sufficient nitrogen for its successful growth, but they extract from the atmosphere a sufficient amount to leave in the soil for future crops. Amounts varying in weight from 125 lbs to 200 lbs. to the acre.

These little homes, a short time ago were thought to be root distortions or disease growths, and until their real significance was discovered many scientific men devoted hours to figuring the end of the world, that time to come when the niter beds of Chile become exhausted.

Bacteriologists claim today that without this little family, human life would cease to exist, for without this little friend of mankind no crops could be produced for any length of time, and soil would become barren.

It is now possible to artificially breed these in laboratories and to deliver them to those whose soils need inoculation; this the Western Soil Bacteria Company, 442 Sansome Street, San Francisco, are doing, and their cultures are meeting with marked success, as they are fresh, virile and acclimated, qualifications no other commercial culture offered to the ranchers of the Pacific Coast have, as our cultures are bred to order only, and delivered fresh from the plates the day they are shipped.

On the following pages are shown a few distinctive types of homes occupied by different members of this family.

WESTERN SOIL BACTERIA COMPANY

C. F. PENNEWELL, Manager

ALFALFA NODULES

CRIMSON CLOVER NODULES

RED CLOVER NODULES

ALSIKE CLOVER NODULES

VETCH NODULES

CANADA FIELD PEA NODULES

TANGIER PEA NODULES

GARDEN PEA NODULES

COW PEA NODULES

SOY BEAN NODULES

LITTLE WHITE BEAN NODULES

HORSE BEAN NODULES

VELVET BEAN NODULES

LUPIN

PINK BEAN

LIMA BEAN

INTERIOR OF A BACILLUS HOME

A, B, C, D—Cells containing *Bacillus Radicicola*.
E—Mishapen nodule cell.

In this cross-section of the nodule each cell is crowded with this sort of bacteria. Only a few bacteria are shown so that cell structure may be seen.

WESTERN SOIL
BACTERIA CO.
SAN FRANCISCO
GOLD MEDAL
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SOIL BACTERIA

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RIBBON

PANAMA PACIFIC
INTERNATIONAL
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1915

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CHIEF

The Officers and Directors of the
WESTERN SOIL BACTERIA COMPANY

extend a cordial invitation
to those interested in advanced ideas on agriculture to visit
its laboratories at

442 SANSOME STREET
SAN FRANCISCO

On any Monday, Wednesday or Friday

There to see the very interesting form of life that is contributing
so much to crop improvement, and the very careful methods used
in putting out Cultures of Bacteria in fresh, acclimated and vigor-
ous form for the benefit and use of the western farmer.

C. F. PENNEWELL, General Manager
THOMAS M. PATERSON, Secretary
R. L. CHARLES, Field Manager

GEO. H. MASTICK, President
H. F. CHADBOURNE, Vice-President
C. C. WAY, Bacteriologist

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