

carrying on the duties entrusted to it during the time of war, that it has now been decided to make it a permanent organization, so that its advice and help will now be available."

Thus, the national direction of research work in the United States has become vested in a body of men whose conduct of research work during the war period of that country has shown that they are competent to handle the great problems which go with peace and reconstruction. The scheme is a wise one, because it calls for the closest co-operation between the Government and the research worker, but leaves the decision as to the methods of attacks in the problems involved in the hands of experts.

T. S. V.

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### Notes and News.

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#### *Water culture.*

The following is the result of a Water Culture Experiment conducted in the Botanical Laboratory for class IV last year. The plant used was *Dolichos Lablab* and the solutions were prepared according to the formula of Von Crone Viz.,—

Potassium Nitrate	1.0 grm.
Ferrous phosphate	0.5 grm.
Calcium sulphate	0.25 grm.
Magnesium sulphate	0.25 grm.
Distilled water	2 litres.

The experiment was started on 17-6-18 with seedlings five days old and the final observations were made on 19-7-18. It is interesting to note that similar results have been obtained this year also. The plants are noted according to their ascending order of growth.

1. Distilled water. Very few lateral roots. First leaves alone appeared and remained throughout. No further growth.

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| 2. | Minus Calcium.   | First seedling perished. The second dragged on. First leaves large, the rest (3 or 4) withered and dropped. Root system poor.                               |
| 3. | Minus phosphate. | The plant was very stunted. But leaves remained. Root system poor as in 2.  |
| 4. | Minus nitrate.   | Roots better than in 3. Plant stunted though healthy but less growth than in 3.   |
| 5. | Minus iron.      | First leaves green. Later leaves pale yellow, 4 or 5 leaves remaining. Roots fairly good.   |
| 6. | Minus magnesium. | Roots more copious. Plant well developed with numerous leaves. Did not appear to be very much affected. Leaves larger but spotted, otherwise quite healthy. |
| 7. | Minus potassium. | Mostly as in 6. Leaves of smaller growth nearly as satisfactory as in 8 (below). Root system quite good but not so copious as in 8.                         |
| 8. | Normal solution. | More satisfactory growth of root and shoot than the rest.   |

Leucas.

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### **Estate News.**

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#### *The Agricultural College Peace Celebration.*

On receipt of information that Germany had signed the Peace Treaty, a meeting of the staff and students of the Agricultural College was held on 30th June 1919 to concert measures for celebrating the peace in a fitting manner. A provisional Committee with power to add was appointed to make necessary arrangements. On 2nd July 1919 there was another meeting at 1 P. M. in the College Hall when Mr. E. Ballard, Mr. Broadfoot and Dr. Norris were introduced to the audience by Mr. McRae, the Principal of the College, as the only members of the