

**32.—MAUKA, AUCKLAND.—COLONEL HAULTAIN.—17TH JUNE, 1857.**

From virgin soil, which has been frequently burnt, but now stocked. Covered with stunted fern and Manuka. Rests on a stiff impervious clay.

**33.—HAMILTON, WAIKATO.—LIEUT.-COLONEL W. MOULE.—12TH DECEMBER, 1867.**

Land cultivated for one year, laid down in clover and rye grass. Original vegetation, Ti-tree and fern. Depth of soil, 6 inches; of sub-soil, 18 inches, resting on white sand and pumice. Low undulating hills with deep gullies and small swamps. Size of field 6 acres.

## INSTRUCTIONS.

Attention is requested to the following instructions by persons contributing samples of soils to the Colonial Museum, for the purpose of being chemically analysed :

1. The quantity transmitted should not be less than 6 lbs. weight of surface soil, 2 lbs. weight of sub-soil.
2. The surface-soil should be selected free from roots and undecomposed vegetable matter, and of uniform quality, gathered in several equal portions from different parts of the field, and from 2 inches below the surface.
3. The sub-soil should be taken in the same manner from a depth of 12 inches.
4. Small specimens of iron-pan, sole, or other concretionary bands that may occur in the soil, should be forwarded in a separate parcel.
5. Each sample of soil should be carefully secured in a calico bag, distinctly marked "surface-soil," or "sub-soil," and also with the name of the contributor and a number, the same number being used for corresponding samples of surface and sub-soils.
6. A copy of the enclosed form, distinguished by this number, must be filled up with the required particulars, and transmitted along with the specimen it refers to.
7. Parcels and letters are to be addressed "On Public Service only. Specimens for Analysis. Dr. Hector, Colonial Museum, Wellington."

N.B.—Under no circumstances will an analysis be made of a specimen, unless the necessary information is supplied, and properly authenticated by the signature of the contributor

## FORM TO BE FILLED UP AND TRANSMITTED TO THE LABORATORY OF THE COLONIAL MUSEUM, ALONG WITH SPECIMENS OF SOIL FOR CHEMICAL ANALYSIS.

1. Name of contributor, and locality where specimens were collected.
2. Number or marks on the specimen or specimens referred to in this form.
3. If the sample is from uncultivated land, state the nature of the vegetation, whether ever or frequently burnt, whether stocked, and for how long, and to what extent.
4. If cultivated, state for what period, the succession of crops, and nature of present or last crop; also the nature of the original vegetation in the natural state.
5. State average depth of soil and sub-soil, and the nature of the formation on which they rest, whether sand, gravel, clay, limestone or rock, and whether porous or bound.
6. General remarks as to the nature of the country, whether alluvial plains, low undulating hills, or steep broken hill surface, and other points that occur to the contributor.

Date at which specimens were collected :

Date at which they were forwarded to Museum :

How transmitted :

Signature of Contributor :