

Return of Analyses at the Analytical Laboratory, Christchurch—continued.

Department or Person from whom Sample received.	Date received.	Nature of Sample.	Adulteration suspected, or for what analysed.	Result of Analysis.
Health ..	July 16 ..	Water	Purity	Volatile matter, 1·4; saline and insol., 3·36; lime, 1·5; alkalies, 0·79; sulph. anhd., 0·57; nitrites anhd., 0·83 gr. per gal.; traces of clay and phosph.; free ammon., 0·56; alb. ammon., 0·02 parts per million. High nitrates, &c., indicate contaminated with sewage.
" ..	" 15 ..	"	"	Volat. matter, 2·8; sal. and insol., 4·0; lime 1·3; alkalies, 0·77; sulph. anhd., 1·33; nit. anhd., 0·44; chlorine, 0·96 gr. per gallon; traces of iron and phosphates; free ammonia, 0·042; alb. ammonia, 0·014 parts per million; nitrates high.
" ..	" 15 ..	West Indies lime-juice.	Adulteration ..	Cit. acid, 4·69 per cent.; ash, 0·22 per cent.; salicylic acid, 5·6 gr. per gallon; sulph. and chlorides, traces; nit. acid, nil; borax, nil. Limejuice that has been concentrated and then diluted with water.
" ..	" 15 ..	Cocoa	"	Cocoa fat, 15·12 per cent.; total ash, 2·38 per cent.; phosph. acid, 0·81 per cent.; matters soluble in water, 12·6 per cent. This sample has only 15 per cent. of fat, whereas pure cocoa has from 45 to 50 per cent. of fat. The Adulteration Prevention Act states that all cocoa shall contain at least 20 per cent. of cocoa-fat. In this sample the fat has been reduced by contraction, and about 40 per cent. of potato starch added.
" ..	" 15 ..	Vinegar	"	Acetic acid, 4·03 per cent.; extract, 2·46 per cent.; ash, 0·18 per cent.; mineral acid, nil. Taste and smell of malt vinegar.
" ..	" 15 ..	Pure tea	"	Extract, 42·2 per cent.; total ash, 6·6 per cent.; sol. ash, 3·56 per cent.; moisture, 11·2 per cent. Leaves were genuine tea-leaves.
" ..	" 15 ..	Limejuice	"	Cit. acid, 2·92 per cent.; ash, 0·14 per cent.; sal. acid, 8·9 gr. per gallon; traces of sulphates and chlorides; borax, nil. Has been concentrated, and then diluted with water.
" ..	" 15 ..	Vinegar	"	Acetic acid, 56 per cent.; extract, 2·48 per cent.; ash, 0·3 per cent.; mineral acid, nil. Pure malt vinegar.
" ..	" 15 ..	Acetic acid	Tariff	58 per cent. acetic acid.
" ..	" 15 ..	"	"	50·4 per cent.
Customs ..	Aug. 17 ..	"	"	58 per cent. acetic acid.
Inspector of Weights and Measures.	" 9 ..	Cocoa	Adulteration ..	Cocoa-fat, 22·0 per cent.; matter sol. in cold water, 16·7 per cent.; total ash, 8·84 per cent.; sol. ash, 6·88 per cent.; phosph. acid, 2·12 per cent. A pure cocoa with about half its fat extracted.
Ditto ..	" 9 ..	"	General adulteration	Cocoa fat, 15·55 per cent.; matters sol. in cold water, 15·5 per cent.; total ash, 1·86 per cent.; sol. ash, 1·26 per cent.; phosph. acid, 0·68 per cent.; contained under 20 per cent. of fat. About half the fat in the cocoa has been extracted, and about 40 per cent. starch and a little sugar added.
" ..	" 9 ..	"	"	Cocoa fat, 24·0 per cent.; matters sol. in cold water, 14·64 per cent.; total ash, 6·92 per cent.; sol. ash, 4·92 per cent.; phosph. acid, 1·92 per cent. Pure, with about half the fat extracted.
" ..	" 9 ..	"	"	Cocoa fat, 27·00 per cent.; matters sol. in cold water, 13·4 per cent.; total ash, 6·54 per cent.; sol. ash, 4·34 per cent.; phosph. acid, 1·84 per cent. Pure, with a little less than half the fat extracted.
Customs ..	Sept. 2 ..	Vinegar	Tariff	4·8 per cent. acetic acid.
" ..	" 2 ..	Acetic acid	"	59·88 ..
" ..	" 2 ..	"	"	56·08 ..
Health ..	" 12 ..	Tea	Mineral adulteration	Free from adulteration.
" ..	" 12 ..	"	"	" ..