Sample.	Particulars of Locality or Sender of Samples.				Carbonate of Lime (CaCo <sub>3</sub> ).	Remarks.
					Per Cent.	
/362	K. S. McKenzie, Te Kuiti				81.0	•
/363	K. S. McKenzie, Te Kuiti				95.0	
/367	J. W. Carter, Collingwood				72.0	
/381	S. H. Green, Dairy Flat, Auckland				51.0	Soft stone.
/382	H. Feary, Takaka, Nelson				95.5	Core Brone.
399	J. L. Shanks, Kaukapakapa				64.0	
401	Kaipara Farmers' Lime Company				73.0	
402	Kaipara Farmers' Lime Company				70.0	
403	Kaipara Farmers' Lime Company		• • • • • • • • • • • • • • • • • • • •		76.0	
404	Kaipara Farmers' Lime Company				82.0	le l
482	Hokianga Chamber of Commerce				57.0	
522	W. J. Newport, Takaka				97.0	
523	W. J. Newport, Takaka			• • •	91.0	
524	W. J. Newport, Takaka	• •	• •	••	95.0	
527	4 700 * 731 337	• •	• •	• •	73·0	
528	4 700 (01 4 777 1	• •	• •	•••	85.0	
538	T TO 111 1 11 30 1	• •	• •	• •	92.0	Soft stone.
581	J. P. Turnbull, Napier J. T. Boyde, Paparoa, Kaipara	• •	• •		92·0 92·5	Soft stone.
582		• •	• •	• •		
583	J. T. Boyde, Paparoa, Kaipara	• •	• •	• • •	86.5	
	J. T. Boyde, Paparoa, Kaipara	• •	• •	• •	87.5	0.01
624	C. S. Dalgliesh, Matari Valley, Murchis		• •	••	93.0	Soft stone.
631	T. Anderson, Carrington	• •	• •	• •	86.5	
632	D. J. Macauley, Carrington	• •	• •	!	91.0	
676	Hokianga Chamber of Commerce	• •	• •	• •	66.0	
683	Instructor Patterson, Warkworth	• •	• •	• •	72.0	1
684	Instructor Patterson, Purewa	• •	• •	••	84.0	
685	Instructor Patterson, Purewa	• •	• •	•••	75.0	
686	Instructor Patterson, Purewa	• •			71.0	
708	Hawkes and Robertson, Kaukapakapa		••	• •	60.0	
738	J. E. Simes, Matakanui				93.0	
761	D. McGregor, Gladstone				90.0	
765	Hokianga Dairy Company				62.0	
779	H. J. Walton, Martinborough				65.0	
793	A. Hobbs, Balfour				83.0	
837	Sir W. Buchanan, Gladstone				87.5	
838	Sir W. Buchanan, Gladstone				84.0	
839	Sir W. Buchanan, Gladstone				81.0	
840	Sir W. Buchanan, Gladstone				90.0	
841	Sir W. Buchanan, Gladstone				92.5	
842	Sir W. Buchanan, Gladstone				87.5	
877	S. B. Newcombe, Tauhoa				91.0	
378	G. Thompson, Port Albert				80.5	Soft stone.
879	Cl. III. a consumer Doubt Alborra				72.0	
927	H. F. Stewart, Kaukapakapa				80.0	1
953	T. Dattamen Darken		• • • • • • • • • • • • • • • • • • • •		80.0	1
963	O D D Zimm Oladakana		•		91.5	
964	d b b z di-1		•		93.5	
/''' <sup>T</sup>	or in its interpretation	• •	• •	• •	00 0	1

## Development of Limestone Resources.

Advice on the subject of grinding limestone and "burning" lime has been given in response to inquiries from time to time. In order to place this work on a more satisfactory footing it was decided to form a committee of Government experts to assist and advise those interested in working limestone deposits. The committee consists of Mr. F. W. Furkert, Assistant Chief Engineer, Public Works Department; Mr. P. G. Morgan, Director of the Geological Survey; and the Chemist to the Department of Agriculture.

The utilization of sea-shells is receiving attention in North Auckland, particularly in the Kataia district, where there is a proposal to form a co-operative company in this connection.

Some field experiments designed to test the calcareous mudstone termed "papa" have been published (see Journal, April, 1916, p. 303). It is difficult to see how it could prove remunerative to apply a substance like papa, which contains only a very small percentage of carbonate of lime, as the material which is effectively useful. Some varieties of papa may be baked in a wood-fire kiln to a consistency and hardness of the best drainpipes and have the following composition after calcining, the sample being from Tokimira: Silica (SiO<sub>2</sub>), 64·30 per cent.; alumina (A1<sub>2</sub>O<sub>3</sub>), 17·70 per cent.; iron oxide (Fe<sub>2</sub>O<sub>3</sub>), 8 per cent.; calcium oxide (CaO), 2·70 per cent.; magnesium oxide (MgO), 2·28 per cent.; alkalis (soda and potash), 4·37 per cent.; loss on ignition, 0·65 per cent.: total, 100 per cent.

## Lime Legislation.

Many farmers are under the impression that legislation regulating the composition of lime supplied would be an admirable thing in New Zealand. It is extremely doubtful if such legislation would improve matters, but there is little doubt that it would increase the cost of the lime to the consumer. The Department has taken some steps to obtain information regarding the practice of other countries, and it is significant to note that the great English-speaking agricultural countries have no legislation limiting the sale of lime to that of any particular quality or specifying standards of purity. It is not thought advisable at present to put any restrictions on the output of lime by laying down the standards, as the quality of the lime sold is likely to vary so much in every district with the quality of the stone and the facilities for reducing or calcining it. The most that can be recommended is that it may be permissible for vendors to sell lime under a guarantee of purity. The purchaser would then have civil right of recovery for any breach of warranty.