

were small, and on account of their uneven character may not be strictly representative of the bulk of the deposit from which they are gathered, but they show that a suitable agricultural limestone could be obtained in that locality. The samples contained from 70 to 84 per cent. carbonate of lime.

P 525-7 are three samples of comminuted sea-shells classified as fine shelly grits, the finer ones containing 88 to 92 per cent. and the coarser one 85 per cent. of calcium carbonate. They are interesting in revealing an unusual source of carbonate of lime for agricultural purposes in the far North at Taumarere, in the Bay of Islands district. The finer samples would certainly be efficacious as a dressing for soils requiring carbonate of lime.

P 398 is a sample of crystalline limestone from Dargaville, containing 96 per cent. carbonate of lime. It would make when ground to a powder an excellent agricultural limestone, and would also be suitable for "burning" into a quicklime.

P 363 is a hard limestone of the usual Whangarei type, and contains 88 per cent. carbonate of lime. P 130-4 are from Kamo, Whangarei, and contain from 75 to 85 per cent. carbonate of lime. Compared with the usual run of stones from North Auckland, they are distinctly good.

P 47 is a useful calcareous marl from Maungaturoto, Otamatea County, containing 72 per cent. carbonate of lime. It could be used for dressing lands without previous grinding, as it would readily disintegrate in the soil. P 596 is a similar stone to the last, from Paparoa, in the same county. It also contains 72 per cent. carbonate of lime.

P 28 is a marble-like hard limestone from Aria, Waitomo, and contains 98.5 per cent. carbonate of lime, suitable either for "burning" or grinding into a ground limestone.

P 372 is a calcareous sinter from Havelock North, containing 91 per cent. carbonate of lime.

P 342-3 are calcareous sinters forwarded from Napier (locality not stated), containing 93 per cent. carbonate of lime. They are soft and easily reduced to a powder, and would be eminently suitable for converting into ground carbonate of lime for agricultural use.

P 40-1 are calcareous sinters from Matainga Station, near Dannevirke. They contain 93 per cent. carbonate of lime. The remarks on P 342-3 also apply to these.

P 607 is a fairly coarse shelly grit deposit at Matamau, Dannevirke, containing 84 per cent. carbonate of lime. Without further grinding it would form a valuable source of carbonate of lime for agricultural purposes. Probably a preliminary screening to separate the coarser particles would increase its efficiency. The possibilities of this deposit are being further investigated.

P 515 is a calcareous sinter containing 87 per cent. carbonate of lime, from Te Pa, near Dannevirke, and would be an excellent source of agricultural carbonate of lime. It would weather down quickly if applied in an uncrushed condition.