Paris Green in Ontario.

The consumption of Paris green in this Province amounts to between 100 and 120 tons annually. Although the demand is so good, still the product put upon the market is of a very favourable quality. The Inland Revenue Department at Ottawa reports that the samples which they examined in 1902-3 were 95.8 per cent. genuine. The samples analyzed in this department were also of a highly satisfactory standard.

Some Paris Greens Analyzed in 1895.

No.	Moisture 110°C	Sand	Sod. Sulphate	Copper oxide	Total arsenious acid As_2O_3	Acetic acid by difference	Soluble arsenious acid As_2O_3
1	1.29	.11	.34	30.68	56.55	11.03	2.36
2	.99	.23	.13	31.62	56.91	10.12	2.73
3	1.25	.26	.37	30.59	56.8	10.73	2.11
4	1.26	.15	.36	30.39	56.12	11.72	2.85
5	1.29	.71	.57	30.23	56.01	11.19	2.73
6	1.41	.12	1.80	30.29	56.33	10.05	4.35

Probably these greens are all as satisfactory as we can expect the commercial article ever to be. No. 6 contains somewhat more sodium sulphate than there is any need for, and is also somewhat high in free arsenious acid; otherwise there are none of them but could be highly recommended for spraying purposes.

London Purple.

London purple is prepared by boiling a purple residue from the dye industry, containing free arsenious acid, with slaked lime. In this way calcium arsenite and calcium arsenate are formed, and these are the poisonous compounds of this insecticide. As the dye residue has accumulated some dirt during the process of manufacture, a sandy substance will always be present in the London purple. It will thus be seen that London purple consists of calcium arsenite, calcium arsenate, a dye residue, and small amounts of sand and moisture. In case not enough lime is added to the dye residue, or the boiling is not continued long enough, varying quantities of the arsenious acid will be left in the free condition, and thus in a form which will scorch the foliage to which it may be applied.

According to Haywood,* about one-third of London purple is made up of the dye residue, sand, and moisture, and that it contains from 31 to 51 per cent. of total arsenic, figured as arsenious oxide; whereas Paris

*U. S. Department of Agriculture, Bureau of Chemistry, Bull. No. 68.