

Water-slacked lime.....	42.2	74.2	56.5
Water-slacked magnesia.....	29.4	00.0	13.8

The limestones which are composed partially of chlorite slate, such as those sent by Dr. Sim, (No. 16,) and Mrs. Burgess, (No. 19,) will act very speedily when burnt, in consequence of double silicates of lime or magnesia and alumina being formed in them. These silicates act by absorbing and retaining the ammonia of the atmosphere, as has been fully explained before, and the action of this lime is to a great extent similar to Peruvian guano on the first crop, and will be very permanent.

The above views, given before I had been aware of the practical effects of this variety of lime, have been fully sustained by the testimony of those who have used it.

This county is well watered by means of the Monocacy river, Catoctin creek and their various tributary branches, on which are many large merchant mills for the manufacture of flour. There are also several manufacturing establishments in the county, where agricultural implements are made with as much practical skill, and generally out of better material than those obtained from our large cities. Much attention is being paid to improved breeds of stock, and the annual exhibitions of the Frederick County Agricultural Society, in every thing that *properly* belongs to agriculture, will not suffer in comparison with any exhibition in the State.

CALVERT COUNTY.

The examinations of this county have neither been as full as I desired to make, nor as thorough as the wants of the community required. Its soils have been examined as far as was possible, under the circumstances in which I was placed, and what I shall say of them will instruct as to their economical improvement. There are many special varieties which have not been investigated as to their properties, and of these I shall not speak. Those which I may mention will be fully described, so that they may be recognized, and the advice given in relation to them will insure to their owners large returns for all their trouble and expense, should they carry it out in practice. I deem it best, and so have acted, to say nothing on subjects unless with a complete knowledge of them. It is preferable, though perhaps not politic, to be silent as to the composition and qualities of soil which have not been determined by analysis, and whose history as to previous manures and cultivation have not been furnished by their owners.

From this county *every specimen* of soil sent to me has been fully examined. I have passed through it in almost every part; requested orally and desired by letters that specimens of every variety of soil should be forwarded to me, and have taken some