The proportion of ammonia produced by the decomposition of the animal matters may be estimated to average about 7 parts of the above 32.

We may, therefore, assume the value of 100 lbs. of crushed

bones to consist in:

And lime, . . .

Ammonia,				7	lbs.
Phosphoric acid, 24.5 Lime, 28.5	PH IN			53	"
				3	66
Fluate of lime,			(all	$\frac{2\frac{1}{4}}{2}$	66
Phosphate of magnesia,					
Soda, muriate of soda, &c.,	AND DAY OF	10.430		21/4	"

In addition to the above, there are carbonic acid and sulphuretted hydrogen, produced by the decomposition of the animal matters.

It has been stated to me that crushed bones had, in some instances, been adulterated with useless foreign matters, but I have met with no certain evidence of the fact; on the contrary, an examination of a number of samples which farmers had received from several different sources, showed them to be as pure as is practicable with an article of that kind.

There are difficulties in the way of adulterating ground bones, occasioned by the fact that a small addition of foreign matters can be readily detected with a good pocket lens,

which every farmer ought to possess.

They are not injured if boiled merely long enough to abstract the grease they contain, but if the boiling be continued until more or less of the gelatine be removed, their value is lessened, because it is from the gelatine that the ammonia is produced. Pure fresh bones should lose from 33 to 37 pr. ct. of their weight, when burned in an open vessel until they become white. But if they have been robbed of part of their gelatine they will lose less weight by burning.

Prof. Johnston, in his Agricultural Chemistry, refers to a