

CONTENTS.

	PAGE
AGRICULTURAL SCIENCE NECESSARY TO CORRECT PRACTICE.....	1
MANURES.....	23
Introductory remarks on the functions of Soil—mechanical texture and directly nourishing capacity.....	23
The supply of the directly nourishing substances to the Soil.....	24
The extent to which the supply of Water, Carbonic Acid and Ammo- nia, depends on the mechanical texture of the Soil.....	24
The spirit of Liebig's Mineral Theory.....	27
NITROGENEOUS MANURES.....	30
Stable and Barn-Yard Manures.....	30
Peruvian Guano	39
Nitrate of Soda.....	42
PHOSPHATIC MANURES.....	42
Bone Dust, Bone Black and Mexican Guano.....	42
Columbian Guano.....	42
Mineral Phosphorite.....	45
Superphosphate of Lime.....	46
CALCAREOUS MANURES.....	48
Gas-House Lime.....	48
Schuylkill Limestones.....	50
MISCELLANEOUS MANURES.....	50
Gypsum	50
Common Salt.....	52
ARTIFICIAL MANURES.....	53
Estimate of the Money Value of Manures.....	53
Concluding Remarks on Manures.....	54
ULTIMATE BENEFITS OF DROUGHTS, AND THE MODE IN WHICH THEY ACT TO IMPROVE LAND.....	56
FREDERICK COUNTY.....	59
Middletown Valley Soils.....	60
Mica Slate Soils.....	60
Mountain Slope Soils.....	65
Red Lands.....	66
Clay Limestone Land.....	72
Slate Soils.....	73
LIMESTONES FROM FREDERICK COUNTY.....	84
CALVERT COUNTY.....	86
Soils of.....	86
Resources for Improvement.....	88
INSPECTION OF GUANO.....	89
Conclusion	89