

|                           | Tubers and roots. | Stems. | Leaves. |
|---------------------------|-------------------|--------|---------|
| Potash . . . . .          | 43.18             | 39.53  | 19.84   |
| Soda . . . . .            | 4.28              | 15.77  | 6.02    |
| Lime . . . . .            | 1.80              | 14.85  | 27.69   |
| Magnesia . . . . .        | 3.17              | 4.10   | 7.78    |
| Oxide of iron . . . . .   | .44               | 1.34   | 4.50    |
| Phosphoric acid . . . . . | 8.61              | 6.68   | 13.60   |
| Sulphuric acid . . . . .  | 15.24             | 6.56   | 6.37    |
| Carbonic acid . . . . .   | 18.29             | .....  | .....   |
| Silica . . . . .          | 1.94              | 2.56   | 6.47    |
| Chlorine . . . . .        | 3.73              | 8.61   | 7.73    |

## TOBACCO,

Analyzed by Dr. Jackson. (See Patent Office Report, 1858.)

The samples were from Prince George's county.

The first from rich soil, and the second from much exhausted soil:

|   | 1. From rich soil. |         | 2. From much worn soil. |         |
|---|--------------------|---------|-------------------------|---------|
|   | Leaves.            | Stalks. | Leaves.                 | Stalks. |
| Potash . . . . .  | 17.60              | 40.12   | 20.32                   | 27.84   |
| Soda . . . . .  | 1.40               | 9.20    | 4.36                    | 7.28    |
| Lime . . . . .  | 22.66              | 11.48   | 25.85                   | 23.88   |
| Magnesia . . . . .  | 8.                 | .80     | 2.00                    | .40     |
| Oxide of iron and Manganese                                 | 2.80               | 1.40    | 1.20                    | 1.30    |
| Phosphoric acid . . . . .                                   | 8.50               | 12.52   | 7.15                    | 10.28   |
| Sulphuric acid . . . . .                                    | 8.00               | 2.04    | 1.52                    | 4.48    |
| Carbonic acid . . . . .                                     | 18.40              | 16.00   | 14.80                   | 18.     |
| Chlorine . . . . .  | 3.76               | 2.96    | .92                     | 3.12    |
| Silica . . . . .  | 8.60               | 2.40    | 21.20                   | 3.20    |
| Percentage of ash obtained }<br>from each sample, dried . } | 14.53              | 9.2     | 14.76                   | 8.72    |

## RED CLOVER.

100 parts produce 8.79 of ashes.

100 parts of ashes of the whole plant, except the roots, contain: