

principal crops of Maryland. The proportion of ashes in each plant was determined after drying at the temperature of boiling water (212°) by various chemists.

INDIAN CORN, OR MAIZE.

100 parts of the grain gives 1.2 per cent. ashes.
 100 parts of the stalks and leaves gives 3.6 per cent. ashes.
 100 parts of the ashes contain :

| | Grain. | Stalks and leaves. |
|---------------------------|--------|--------------------|
| Potash | 28.37 | 35.26 |
| Soda | 1.74 | 1.21 |
| Lime | .57 | 10.53 |
| Magnesia | 13.60 | 5.52 |
| Oxide of iron | .47 | 2.28 |
| Phosphoric acid | 53.70 | 8.09 |
| Sulphuric acid | | 5.16 |
| Carbonic acid | | 2.87 |
| Chlorine | trace. | 1.08 |
| Silica | 1.55 | 28. |

WHEAT.

100 parts of the dried grain gives 2 per cent. of ashes.
 100 parts of the dried straw gives 4 per cent. of ashes.
 100 parts of the ashes contain :

| | Grain. | Straw. |
|---------------------------|--------|--------|
| Potash | 30.02 | 17.98 |
| Soda | 3.82 | 2.47 |
| Lime | 1.15 | 7.42 |
| Magnesia | 13.39 | 1.94 |
| Oxide of iron | .91 | .45 |
| Phosphoric acid | 46.79 | 2.75 |
| Sulphuric acid | | 3.09 |
| Silica | 3.89 | 63.89 |

RYE.

100 parts of the dried grain gives 2.3 per cent. ashes.
 100 parts of the dried straw gives 5.5 per cent. ashes.