#  

## TOL XI.

RALEIGF, WEDNESDAY, DECEMBER 5, 1849.
2NO. 48.



| CULTURA |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
| the winter nit the roots. Sne would havethought that the notorious dififulity of eram |  |
|  |  |
| ng a quars of water into a pmo measu-e |  |
|  |  |
| such a phenomenon. For fertanty dues |  |
| 隹 |  |
|  |  |
| fing ar the root. |  |
|  |  |
| the mined in the interior of $n$ trea. In the |  |
|  |  |
| spring the sap runs nut of the trunk when lod: in the summer, aulumn, and |  |
| winter it does not, unlees exeeptionally. |  |
|  | tole |
| all circumstances, except in the presence of intense cold. The diffetence is, that there | an |
|  |  |
|  |  |
| isa great deal of it in the spring, and much less at other seasons. |  |
| When a tree falls to reat at the approaeh |  |
| Of wimet iot leaves have carried so much |  |
|  |  |
| supply that the whole of the inierior is in ${ }^{\text {a }}$ |  |
| luid has become slid. in consequence of |  |
|  |  |
|  |  |
| one hand, and elememical solidificasion on the |  |
|  |  |
| minished in quantity as to be no longer liscoveiable by mere incisions, The power |  |
| that plant may possess of resisting cold is in proportion to the completeness of this |  |
|  |  |
| drying process. <br> When the leaves have fallen off, the tree |  |
| is no longer subject to much loss of fluid by perspiration, nor to extensive them cal chan |  |
|  |  |
|  |  |
| eontrary go on sueking fluid from the soil, and driving it apwards into the system |  |
|  |  |
| The effeet of this is. that afier some months |  |
| Or has sustainol in tutuma by is loaves, is |  |
| made good and the whole plant is distended with watery particles. This is a most |  |
|  |  |
| wise provision in order to insure ahmindant <br> lood to new born leaves and branches |  |
| ato growth. |  |
|  |  |
|  |  |






