

## Scope

Files in this repository are datasets that can be used in conjunction with VineLOGIC:

Walker, Rob; Godwin, D. C.; White, R. J. G.; Sommer, K. J.; Goodwin, Ian; Clingeffer, Peter; Zhang, Xike; Pellegrino, Anne; Culley, Sam; Benn, David (2020): VineLOGIC: Grapevine growth and development model. v1. CSIRO. Software Collection. <https://doi.org/10.25919/5eb3536b6a8a8>

## Input Files

The `data` directory contains:

- VineLOGIC `.vix` files consisting of treatment scenarios that can be used to create `VL2.inp` files (see `script` directory of VineLOGIC model collection) for input to a VineLOGIC Fortran model executable.
- VineLOGIC `.via` files which capture observed data such as phenology dates, yield and yield components.
- SILO weather `.wth` files.
- `.SOL` soil information files.
- `.cul` cultivar files.

`.cul`, `.SOL`, and the relevant `.wth` files can be copied to another location along with a `VL2.inp` file generated from one of the `.vix` files, and a VineLOGIC Fortran model executable (see `vines` at top level of VineLOGIC model collection) which can be run from that location in order to generate output files.

## Output Files

The `expected` directory contains the expected outputs of running the VineLOGIC Fortran model executable against `VL2.inp` files for each numbered treatment in a particular VIX file.