Rural Cultivation and Atmospheric Emulation Application (RCAEA)

***User Guide***

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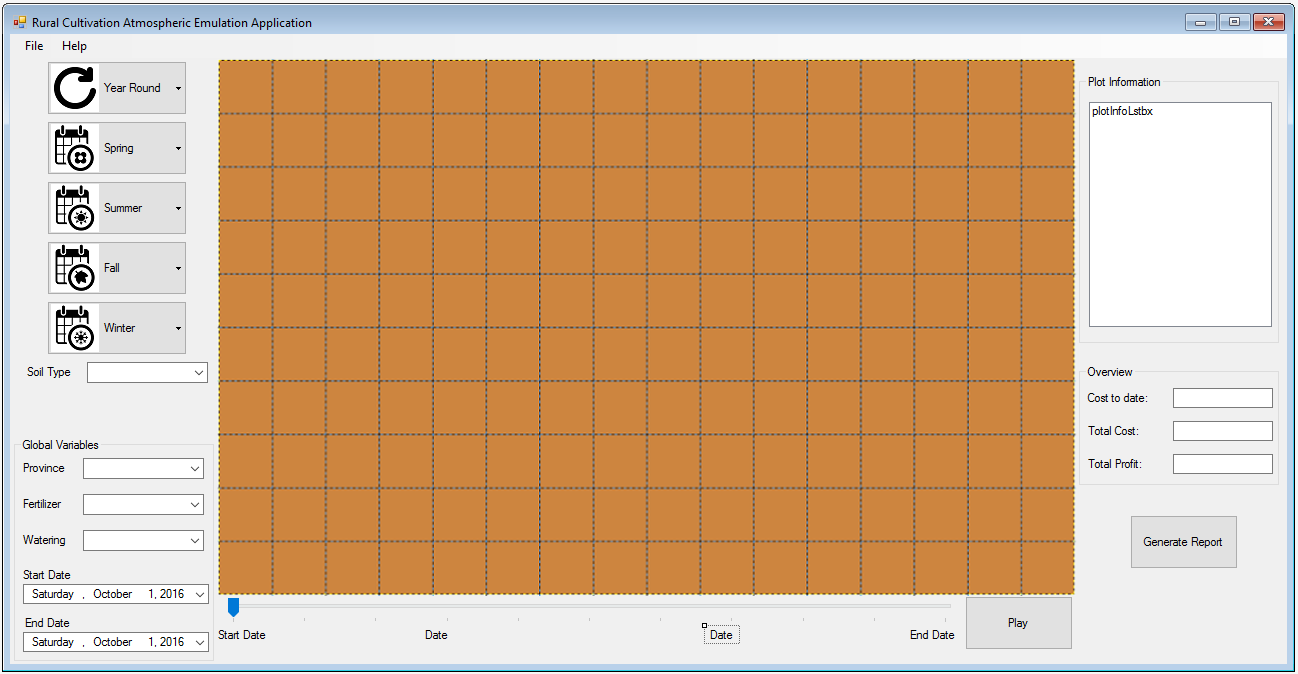
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# Introduction

This document is intended to give assistance to users who are utilizing the Rural Cultivation and Atmospheric Emulation Application (RCAEA). The user guide will contain both a written tutorial about the main functions of the RCAEA with associated images, as well as a troubleshooting section detailing possible errors or problems that may occur, along with their solutions. At the end of the document there will be an index section containing terminology that the user might not me familiar with.

# Application Interface



## Options Details

|  |  |
| --- | --- |
| **Interface Option** | **Description** |
| https://lh5.googleusercontent.com/atPl_EuvMpY15fr-JuPPopKYZFO9YwhmWYl9lx7tb0hpfPd04yeLYDloq5EIqEllAfWNvIJp-mUXTKK44Nea7wuOhsMM6EXte7v44M6ShSbH0Wnvb-8GpiCvCPhvuzrrqiSx3u3Z4pBmrrBWpQ | This button will show a menu with a list of crops that can grow all year round. |
| https://lh6.googleusercontent.com/AW4FWXWj0PnQM8Vs6JF8Yf4y8oJXuaWBlvVUofpK0IL_BhQLBSDaPDIYGlQBhrVoO2cAIM938zcRiKfxvnN4cHR-N9wSwiDt57cs19vpz95bMHsHhS4LQdjceHS--jsP-ypGJWhltSxbAHEYBg | This button will show a menu with a list of crops that can grow in the spring season. |
| https://lh6.googleusercontent.com/Ylrvwgye2UwKctOJZUNAmqy8jtBEyQ1UyKhetlTdwpQQTNNikLfdJPZzHpq7n_Ezi862xKMuWFmfyADuSzNJVppLWoak__1tqvPoP21ku-zvIpqR1nAiSPmPwdljXPDupMm5Pido6rdgMRQEmg | This button will show a menu with a list of crops that can grow in the summer season. |
| https://lh6.googleusercontent.com/TULD6VJIoeBrc8FwVBc0FQWXypw_pDan31hTHagfJlhovv3hNEYyc6c2x37m3NG7bG8aZ9HEcwZUbm0qKnS0LZkqDmujazd69OerKDcIa2Ky_A__Kj8LV-hMxKUlhocBJUql-4P9lZGkvgfq6g | This button will show a menu with a list of crops that can grow in the autumn season. |
| https://lh3.googleusercontent.com/E4imJ3SVHReLJ0J9riVuGJv6MMRYKub1ScbAkBUKNI5Up00uD_FYg4Z1E8d7b38_JMdFTa80PG47vKMTAmrwXpXGPEZgiKWguwUfDeF-ruUcuLMybZln4op301dk5NMNG38lHXf2zIZQyQOdZQ | This button will show a menu with a list of crops that can grow in the winter season. |
|  | This is squared piece of land known as plot. Here user can add/remove and grow crops. |
|  | This is menu bar located on top of application. It contains File and help options. By selecting the File option you can further select saving/loading of simulation. |
| https://lh6.googleusercontent.com/5ZiXVZ6PZzS1SvOvztf9pNV_BcdXEfu9FEQGe2qRzC5yvEjJo7P_OkNWXXKoqPiHt8gZJQeEhqUrNLbVioqoNaw8ASkbmVVlb7PO6Kqf-jSaq2rDyhquE59JeHj4lLmj37i4PBnoI1N5nu2niA | Soil type selection drop-down box (per plot). |
| https://lh4.googleusercontent.com/KkU3ZWJt6M0GxPUqRXKkYpRpHQ_Smhk4jnqCnLcXPw9NT_cFfu17hBaelGzJOVBGcbaGG8CLkmftHpuKRpfbuIh3LvyCutEfQ4FU8sTHNeT9WXExsVbslLoGBQKpZqjNoedMqAvRSyLpZfW99A | Global variable selection drop-down boxes for current simulation.  Province dropdown for selecting the location of the field within the confinements of the Netherlands. Every province will have different weather and soil properties.  Fertilizer dropdown for selecting how much fertilizer will be used during the run time of the simulation.  Watering dropdown for selecting how much water will be used during the run time of the simulation. |
| https://lh3.googleusercontent.com/h9UoMIK1rNPP7xfBkIbKRNtS9k3GVKnmcXfVXy041Ba2661AbEFRccDy74sYgknMZqj0cWOd2-A2bqHbUKItiulkbo-EV6jLx7acwAy-76htmjgYh5ngrxiUp2bsrqZTxm1B6pRz_DMr7IpVzA | These selectors will be used to set start and end date of a simulation. |
| https://lh3.googleusercontent.com/5aGjaqemTRqW8sV6OXYFYjyFT8LHnEFTMluPErjy1_K967lRrNDmi-kbBvwAzD8JVgWS1yDY4hKfhq_UFGEwfHEU8MlSqYtsgeKtMT-I4PWQGF6MYNdSkwSbmqQCGwzDL2H5jyCQ2VPbNmhTGQ | These text fields display cost to date, total cost and total profit of the current simulation. |
|  | This progress bar can be used to move across the timeline of the simulation depending on the start and end date selected. |
| https://lh4.googleusercontent.com/GDIpbQnIXPKtRMJRDE8HyRzY8PrqrmDWdSeLuIyNG90ZVRbtBbrfcTRj1BEL6BXePtR0Ao3OMRup-YxYajDBMsA7wPnwZxxq6yB3POt_oOVu2O42P8ggr7RoD0S9aH096tOp0c0DTu-SLZmDbg | This button will make the simulation automatically, it will act also as the stop/pause button during simulation runtime. |
|  | This is plot information panel that will show statistics for selected plot . |
| https://lh4.googleusercontent.com/L6FvZbnWbngJ1hLLnO8swig4E96Ds-gGdAWOPn2BTlggbDjd8VQh_kJ_tgjj3xFMdoUvl2RyovZtAtoyGf-b4aq9Bs5p8ro0GE_wAs9db-J-nTqKJ1f6dfvE3YSNNjBReMG218sL5Sy57MB8Qg | This button will generate an overall report about current simulation. |

# Main Functions Tutorials and Examples

## Adding and Removing Crops

## Choosing Additional Properties

## Running a Simulation

## Saving and Loading a Simulation

# Troubleshooting

# Index