

PROCESSING AND ANALIZING THE RESULTS

File name	Order	Date	Objective
parameters.R	26	3/11/2021	Setting parameters used during the work, like prices and fees
3d_train_and_evaluate_loyo_mar10.R	25	3/12/2021	Trains and evaluates N recommendation tools
3a_regional_stations.R	24	3/10/2021	Select the regional stations used for training
3b_fields_splitter.R	23	3/10/2021	Splits APSIM output by field and aggregates it
2_post_processing_nov29.R	22	3/10/2021	Clean results. Remove outliers

RUNNING THE SIMULATIONS

File name	Order	Date	Objective
simH_daily_to_yearly.R	21	12/10/2020	Transforms daily output into yearly
simG_merge_results.R	20	8/30/2020	Merge APSIM output
simF_run_files.R	19	9/6/2020	Run the simulations
simE_update_ic.R	18	8/31/2020	Update the initial conditions from SP to NRP
simD_create_apsim_files.R	17	9/6/2020	Creates the files for the SP
simC_make_z_and_met_files.R	16	8/30/2020	Makes the weather files
simB_create_instructions.R	15	11/24/2020	Creates the instructions with all the files to run for a cell
simA_manager.R	14	11/23/2020	Calls all the other files in the right order, for each cell
B_bash.sh	13	11/23/2020	CLUSTER 2: changes directory and calls R in using singularity
A_walltime_sender.sh	12	11/23/2020	CLUSTER 1: calls B_bash work for each cell and assigns a walltime
walltime_updater.R	11	9/17/2020	Creates a file with the cell id and the time needed to run in the Cluster

INITIAL SET UP OF FILES FOR RUNNING THE SIMULATIONS

File name	Order	Date	Objective
planting_dates_soil_temp_jul24.R	10	8/14/2020	Calculates planting dates based on temperature
clean_fields_step2.R	9	8/14/2020	Clean fields again, remove soils polygon whose horizons were not found
soils_manager_Nov29.R	8	8/14/2020	Download horizons for each soil
clean_fields_step1.R	7	11/29/2019	Clean fields. Leave only three soils
fields_selector_parallel_focal_v2.R	6	11/9/2019	Code to select fields on each cell in parallel
fields_selector_manager.R	5	6/18/2020	Code to spit the the grid file in tiles and call the fields selector in parallel
z_creator_nov20.R	4	5/18/2020	Randomize the weather
z_downloader.R	3	4/18/2020	Code to download the weather of the centroid of each cell
grid_10_update.R	2	12/2/2019	Update the grid with the area of corn
grid_10_creation.R	1	5/19/2019	Code to create a grid of 10x10 km over Illinois