

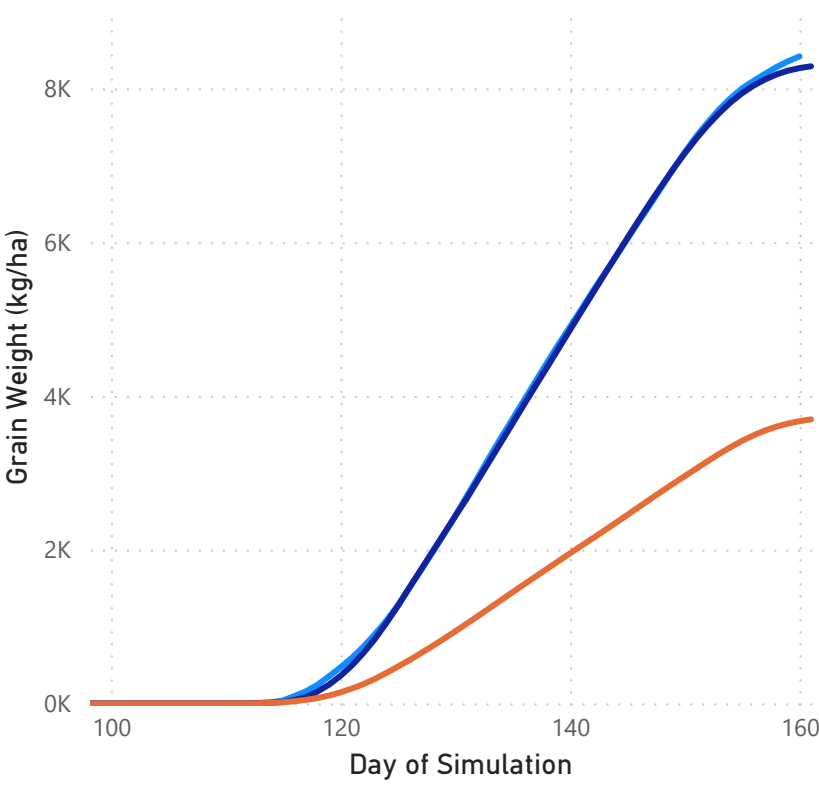
In this experiment we are looking to maximize the crop yield (Grain Weight), minimize the water used (Total Irrigated Water), and minimize the pollution (Nitrate Leaching). Looking at the gauges below, you can see they are all green! The minimum line on the left of the gauges is the policy where the crops were not watered, the target line on the right is what the expert policy yielded, and the amount filled out in the gauge is what the Bonsai experiment yielded. This experiment yields more crops, while using less water and creating less pollution.

Irrigation Frequency →

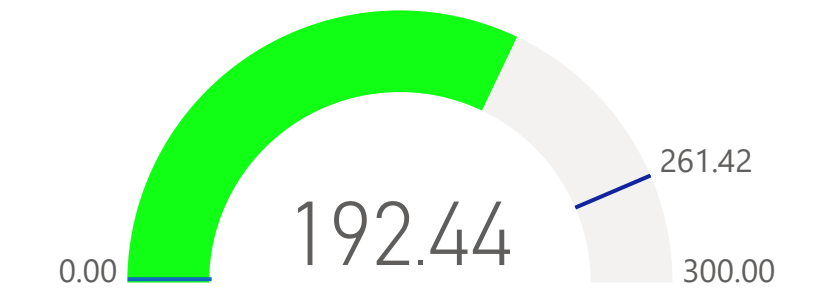
Crop Yield (kg/ha) (To Be Maximized)



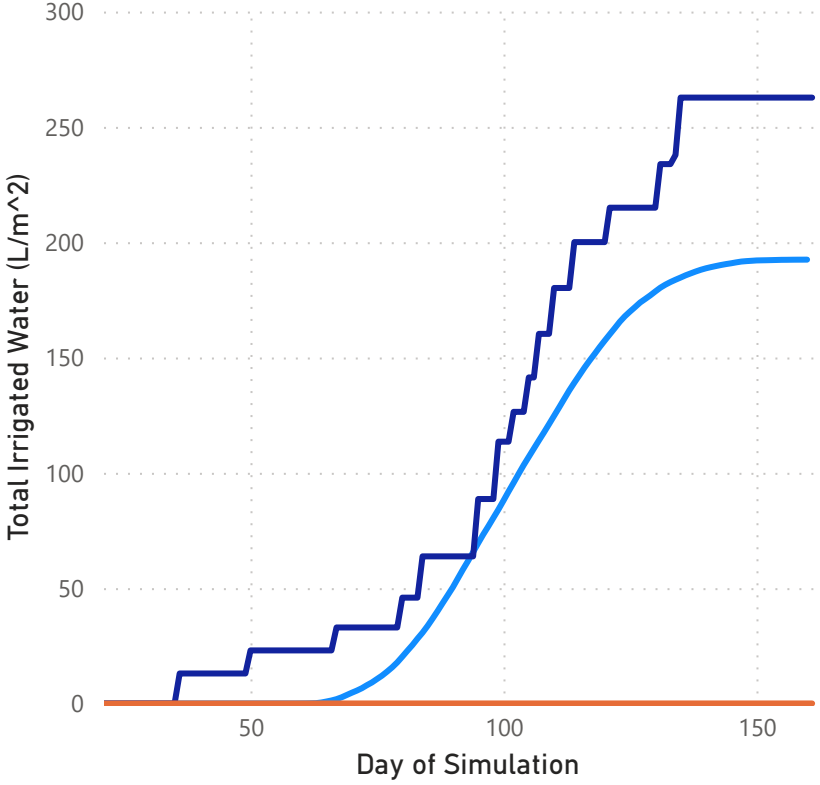
● Bonsai ● Expert ● None



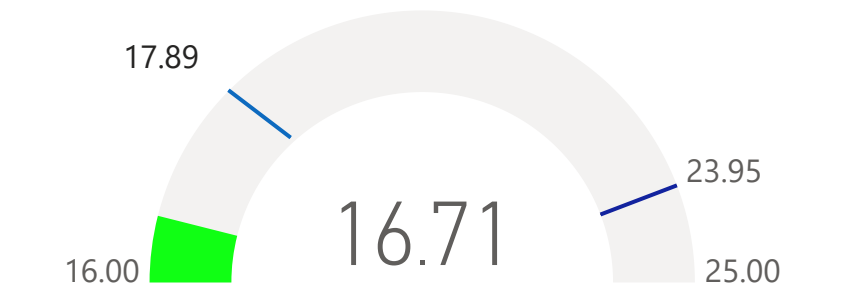
Water Used (L/m^2) (To Be Minimized)



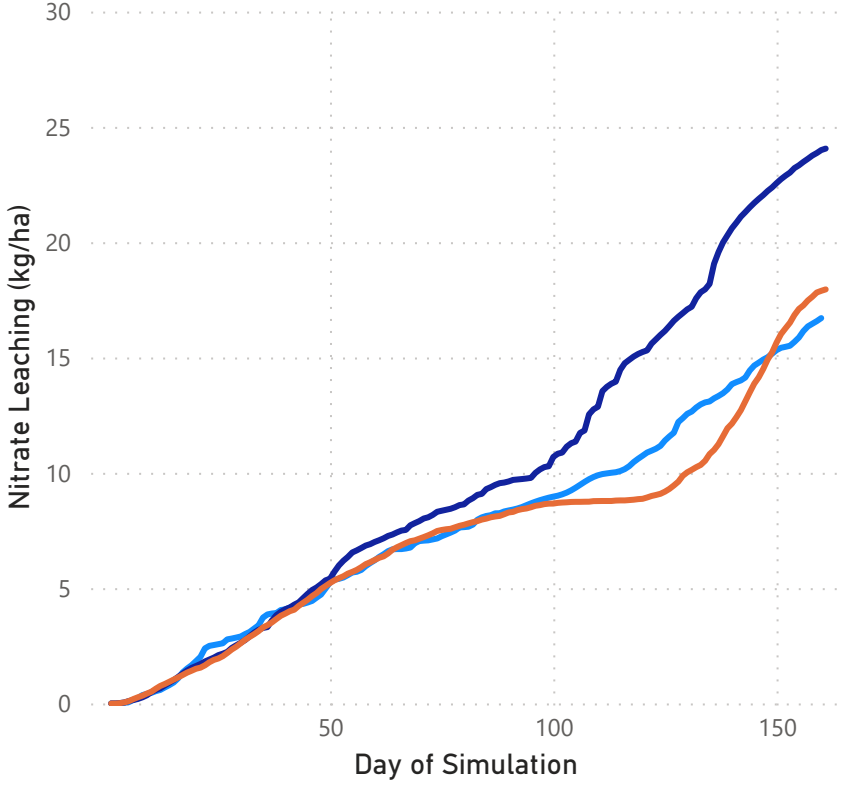
● Bonsai ● Expert ● None



Pollution (kg/ha) (To Be Minimized)



● Bonsai ● Expert ● None





As you can see, the expert starts watering earlier in the experiment, but less frequently. When they do water, they water a lot. Whereas the Bonsai experiment starts watering later in the experiment, but waters comparatively little, but nearly every day.

