**Decision table scheme I designed for the application of pesticide 2plus2 over the land use type GRAS, each year across timeframe 2013-2020**

*How to read the document: please find attached the screenshot of my decision table (opened in Notepad)*

I gave the Decision table a name, "pst\_2plus2\_app1", and specified one alternative, one condition and one action.

The DT consists of two lines:

1) the first line attributes a name to the variable (“var”): in my case the Julian day (**jday**), then an object (‘**obj’**): “null”, by default. “**obj\_num**“ and “lim\_const“ were set to 121 and 181 respectively, to set the temporal limits for application. “**alt1**“stands for alternative and is set to ‘=’ to make sure SWAT+Editor stops at jday = 181.

2) Second line sets the action type: “**act\_typ**“, as its name suggests, refers to the type of action to be undertaken: in my case I want the pesticide 2Plus2 to be applied hence “**pest\_apply**“, which is a commonly used type of action whose syntax is embedded within SWAT+Editor’s setup. “obj“ is set to “**hru**“, which is very important there, as it makes the link between the DT and the Management schedule I created. “**name**“ was set to “2plus2\_app“, of my choice and “**option**“ to “2plus2“. The most important part lies in “**const**“ being set to ‘8’ which refers to the 8.00 kg/year applied. “**const2**“ is also relevant in the sense that it sets the number of applications to “1“ (per year). “**fp**“ stands for field practice, i.e. the specific agricultural management practices to implement, here inject, which I assumed was the method by which the pesticide was applied. Finally, the “**outcome**“ was indeed set to ‘yes’ (y). I enabled comments using an exclamation point (“!”) to describe what the DT does.

A screenshot of a computer program

Description automatically generated