SGISfarm
Template Library

5 YEAR HARVEST DATA AVERAGE FOR CORN

DESCRIPTION

This template creates a five year corn yield average based on yield volume. By default it looks for data from 2018-2012, but this can be modified to look at other years.

REQUIRED SGISFARM DATA

The following data must be imported into the SGISfarm database for the selected field before the template will successfully create the desired application map.

Variable Name	Definition	Source
YieldData_Year_1	Yield measured in Bu/a	User-imported harvest event
YieldData_Year_2	Yield measured in Bu/a	User-imported harvest event
YieldData_Year_3	Yield measured in Bu/a	User-imported harvest event
YieldData_Year_4	Yield measured in Bu/a	User-imported harvest event
YieldData_Year_5	Yield measured in Bu/a	User-imported harvest event

USER DEFINED CONSTANTS

The following constants must be given a value by the user at runtime. Values or these constants may be obtained from one of the references at the end of this document or from other references or consultants available to the user.

Constant Name	Definition	Units	Range	Default Value
NA				

CROP INPUT PRODUCT

The template uses the following crop input product. It is important to ensure the product application units matches the application machine selected to apply the map. Alternative products may be selected by the user but the application units must be the same as the original product.

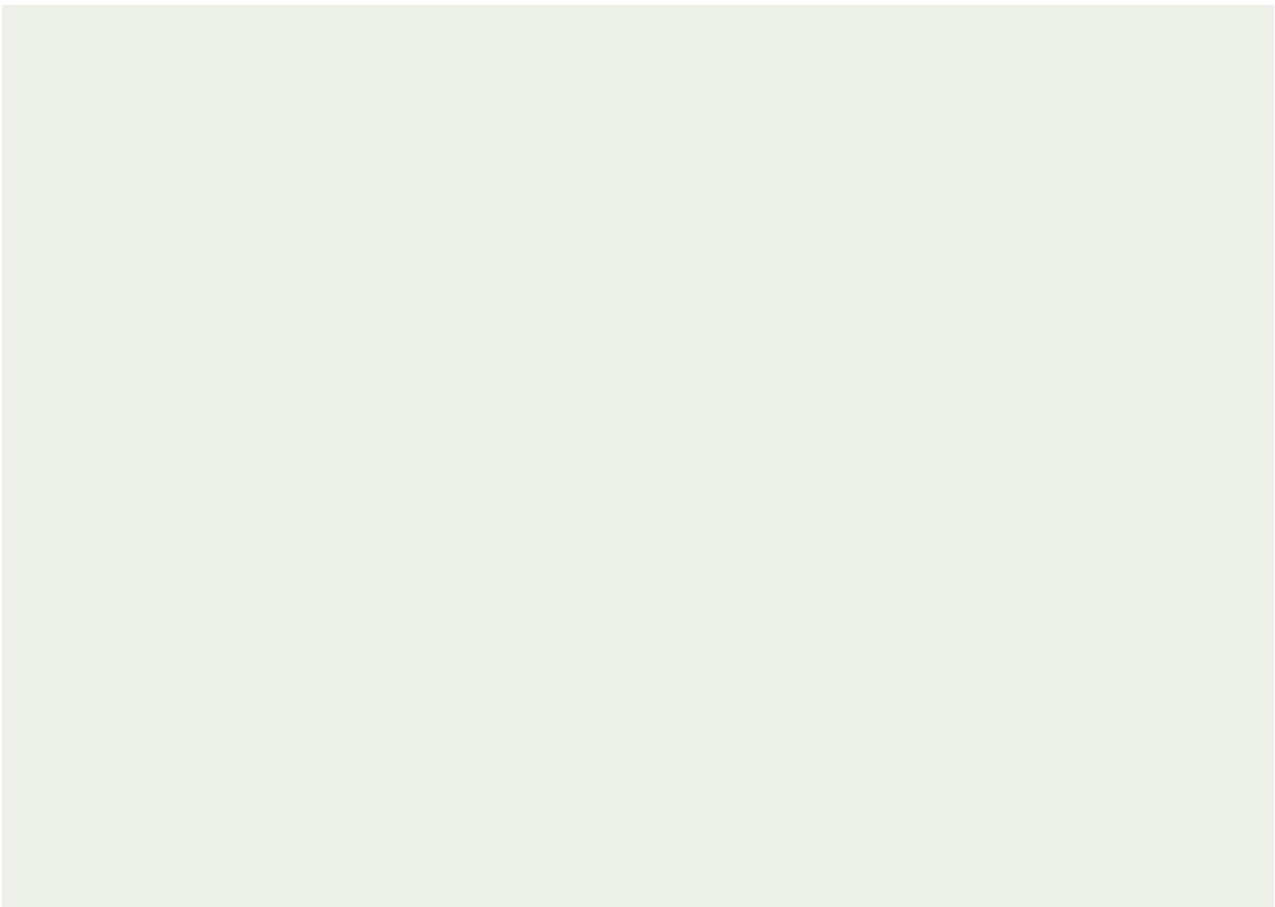| Product Name	Application Units	Chemical Analysis	
		Element	Percent

REFERENCES

The following references can be valuable to learn more about the crop and regional suitability of this template as well as finding acceptable values for some of the user defined constants.

Author	Url or Reference Title

ADVANCED SETTINGS

SGISfarm templates also contain many advanced settings used in the creation of variable rate crop input maps. For the convenience of the user these settings have already been set and it is recommended they not be changed. More information on these settings can be found in the SGISfarm training manual.

DATA MODELING

Before data can be used to create a variable rate map it must first be fit a standard grid. The settings below define how each data source is modeled or conformed to this standard grid.

Polygon Data Variables

Variable Name	Gridding Method	Aggregate Method	Corner Operation
YieldData_Year_1	4-Corner Point	First	Maximum
YieldData_Year_2	4-Corner Point	First	Maximum
YieldData_Year_3	4-Corner Point	First	Maximum

Point Data Variables

Variable Name	Gridding Method	Search Radius	Max. Data Points	Exponent

DATA SELECTION SETTINGS

The data selection settings determine exactly what data in SGISfarm is used in the recommendation template. Data may be specified by date range or by specifying which data events to use. The settings defined in this template should be changed only with great care.

Variable Name	Relative Start	Duration	Event Selection
YieldData_Year_1	2008	1 year	2008 by default, can be changed
YieldData_Year_2	2009	1 year	2009 by default, can be changed
YieldData_Year_3	2010	1 year	2010 by default, can be changed
YieldData_Year_4	2011	1 year	2011 by default, can be changed
YieldData_Year_5	2012	1 year	2012 by default, can be changed