## **Creating New Objects Using GeoFormulas**

**DID YOU KNOW**... you can create new raster objects using the GeoFormula process to compute cell values from the attributes of geospatial input object(s)?

## What Creating New Objects Using GeoFormulas Gives You

- · Generate a new raster object from multiple input objects
- Compute new cell values using an SML script
- Set raster type, projection, extents, cell size, and raster size for the output

📼 GeoForm	ula		C
How do you	want to start?	9	
🔷 Create	new formula u	sing wizard	2
🗢 Create	new formula u	sing dialog	
🗸 Open a	n existing form	ula	
ок	Cancel	Help	

File Edit Insert Syntax	Help
Objects Values Script Output	
<pre>if ((_YIELD_OAT == 24) and ( _YIELD_WHEAT==19)) return (1);</pre>	
else return (0)	
return (o)	

Insert Select Symbol from the Field... Symbol... Function... Operator... Keyword... Class...



/alue

File: Object:

aster YIELD OAT

Description: YIELD-OAT

C:\Documents YIELD-OAT

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\_YIELD\_OAT\_Value

\_YIELD\_WHEAT\_Val \_YIELD\_WHEAT\_X \_YIELD\_WHEAT\_Y context

The illustration above shows

the Variables entry expanded

for the list of input objects along

with the other variables. Select

the raster name and click on the

Insert icon to insert the selected

name into the script.

\_YIELD\_OAT\_X

\_YIELD\_OAT\_Y YIELD\_WHEAT

Classes

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 Examples

When you toggle on this button at startup, you are prompted to select input objects. Enter a script to compute cell values of the output raster using the attributes of input objects. In the illustration above, two input raster objects were used.

The Output tabbed panel lets you set parameters for output raster type, projection, extents, and cell size or raster size. Make sure to select the appropriate Raster Type to cover the whole range of values generated by the script.

Run icc	on
📼 GeoFormula Object Combinations	_ 🗆
File Edit Insert Syntax	Help
Objects Values Script Output	
Raster Type: 1-bit integer (binary)	
Match Reference	
Orientation: Projection Upright 🖃	
Projection: Match First Object 💻	
Specify Protection, . Geographic	_
Extents: Union of Areas 🖃	
Seleci Region	_
Cell Size: 30.00 meters 🖬 Match Ra	ster
Raster Size: Lines: 173 Columns: 173 🖬 Match TNTlite	

## How to Create New Objects Using GeoFormulas

- Select Script/GeoFormula from the menubar.
- In the GeoFormula window that opens, toggle on Create new formula using dialog button and click on OK.
- Select input object(s) to process when prompted.
- Click on the Script panel and enter an SML script.
- Click on the Output panel and select data type for the output raster.
- Click on the Run icon and save output raster.

## WANT TO KNOW MORE?



See the tutorial booklet: Using Geospatial Formulas

