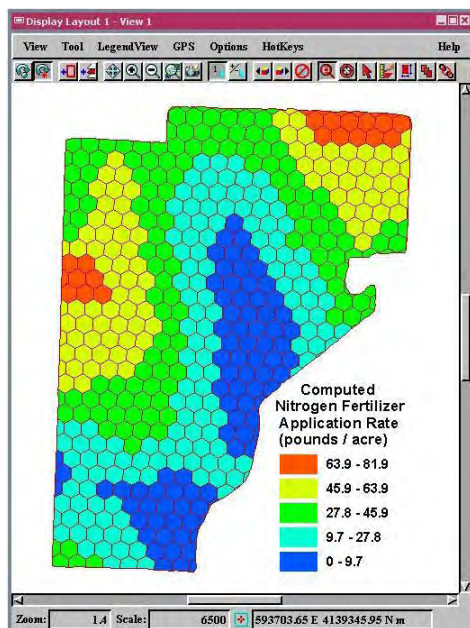# Computed Attributes

DID YOU KNOW **. . .** *you can do mathematical computations and combine text in database tables?*

What Computed Attributes Give You
- *Create fields that read numeric or text information from other tables*
- *Automatic updating when contributing fields are changed*
- *Create "virtual tables" made up of selected fields from other related tables*
- *Perform simple or complex mathematical calculations*
- *Concatenate text strings from several fields into one text entry*
- *Freely update numeric and string expressions or make field permanent*

Fields read from related tables

Computed
Nitrogen Fertilizer
Application Rate
(pounds / acre)

63.9 - 81.9
45.9 - 63.9
27.8 - 45.9
9.7 - 27.8
0 - 9.7

Field Options
Label: AppRate
Decimal Places: 1
☐ Do not compute statistics
Edit Expression...
OK   Cancel   Help

GRIDCELL_25 / PolyData / Model
Table Edit Record Field Help

CornYld	Nitrate	OrgMatter	AppRate
121.5	12.3	2.8	34.7
	13.3	2.8	30.5
	14.0	2.7	27.8
	14.4	2.7	24.9
	14.9	2.8	18.9
	15.6	2.8	11.7
	16.2	2.9	6.7
	16.3	2.9	5.8

records shown

SML

$35 + (1.2*CornYld.Mean) - (8 * Nitrate.Mean) - (0.14 * CornYld.Mean) * OrgMatter.Mean)$

Calculation of fertilizer application rate for management units using expected yield and average soil nitrate and organic matter values.

OK   Cancel

How Computed Attributes Work
- *Add field to the database table using the Table Properties window.*
- *Set Field Type to Computed for numerical data or String Expression to read in text strings.*
- *Press the Edit Expression button to open the SML window.*
- *Construct desired mathematical or string expression using standard operator symbols and functions.*
- *Use Insert icon to insert references to fields in other tables in the form Table.Field.*

See the tutorial booklet entitled:
Managing Relational Databases

MicroImages
microimages.com