Create Crystal Reports with SML

Crow Butte Crop Yields

Bankard loamy fine sand, 0 to 2 percent slopes

Bridget silt loam, 0 to 1 percent slopes

Bridget silt loam, 1 to 3 percent slopes
Bridget silt loam, 3 to 9 percent slopes
Bufton silty clay loam, 1 to 3 percent slopes
Bufton silty clay loam, 3 to 9 percent slopes

Duroc very fine sandy loam, 1 to 3 percent slopes

Keith and Ulysses silt loams, 3 to 9 percent slopes Kenta silt loam, I to 3 percent slopes Keota-Epping silt loams, 3 to 9 percent slopes Las Animas soils, 0 to 2 percent slopes Mitchell silt loam, 0 to 1 percent slopes

Bankard loamy fine sand, wet variant, 0 to 2 percent slopes

Glenberg loamy very fine sand, 0 to 3 percent slopes Glenberg loamy very fine sand, occasionally flooded, 0 to 3 Jayem loamy very fine sand, 1 to 5 percent slopes Jayem loamy very fine sand, 5 to 9 percent slopes

Jayen toamy very tine sand, 3 to 9 percent slopes Kadoka silt loam, deep variant, 1 to 3 percent slopes Kadoka silt loam, deep variant, 3 to 9 percent slopes Kadoka silt loam, deep variant, 3 to 9 percent slopes, eroded Keith silt loam, 1 to 3 percent slopes Keith silt loam, 3 to 9 percent slopes

39.00

Hay (Wet)

2.00

1.80 1.60 2.00 1.80 1.70 1.50 1.30 2.00 2.20

1.80

1.20 1.10 2.00 1.50 1.20 2.20

5.40

4.80

4.40 4.30 4.00

5.00 4.60

4.40

40.00

44.00

33.00

34.00

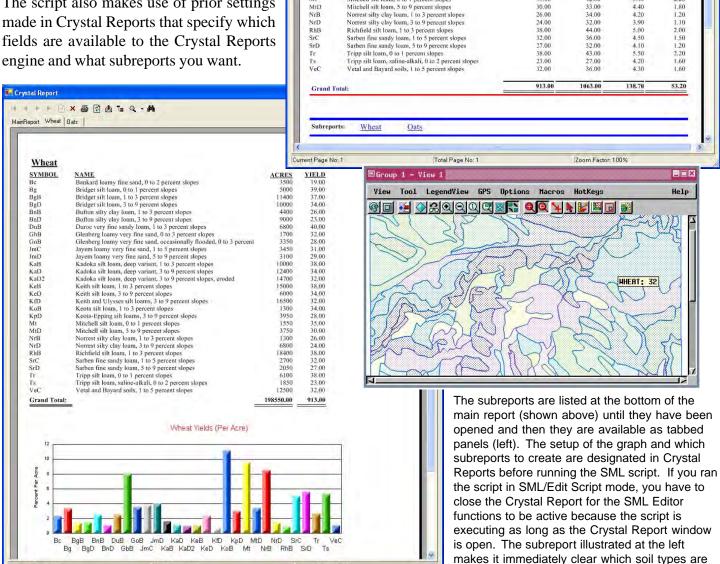
🔙 Crystal Report

MainReport

BgB BgD BnB BnD

KaD KaD2 KeB KeD KiD

SML can use Visual Basic to generate a Crystal Report and subreports for a vector database in the TNT products. This script (shown on the back) is data specific but readily adaptable for use with other vector objects. The script imports the form from Visual Basic, creates a class instance for the form, then prompts for the vector object to create the report for. The tables and fields desired for the report are specified in the script. Once the Visual Basic data table is initialized by the script, the specified fields from each record are read into the Visual Basic table, which is used to generate the Crystal Report. The script also makes use of prior settings made in Crystal Reports that specify which fields are available to the Crystal Reports engine and what subreports you want.



best for growing wheat.

Sample scripts have been prepared to illustrate how you might use the features of TNTmips' SML scripting language. The full script is printed below for your quick perusal. The sample script illustrated can be downloaded from the SML script exchange at www.microimages.com/freestuf/smlscripts.htm.

```
import the Visual
                                                            Basic Form
                $import cbsoils_report.crystal_form
                                                create an instance of
                class crystal_form cf;
                                                the form's class in SML
                string symbol, name;
     declare
     variables
                numeric acres, wheat, oats, haydry, haywet;
                vector v;
                                        get input
                                        vector
               GetInputVector(v);
               numeric num_d_records = NumRecords(v.poly.DESCRIPTN);
                                                                              declare more
               numeric num_y_records = NumRecords(v.poly.YIELD);
                                                                              variables
               numeric current;
                                                                initialize the Datatable
                cf.InitializeDataTable();
                                                                in Visual Basic
add the records
from the vector to
                for current = 1 to num_d_records {
Visual Basic
                      symbol = TableReadFieldStr(v.poly.DESCRIPTN, "SYMBOL", current);
                      name = TableReadFieldStr(v.poly.DESCRIPTN, "NAME", current);
   loops through
                      acres = TableReadFieldNum(v.poly.DESCRIPTN, "ACRES", current);
   records of
    DESCRIPTN table
                      cf.AddDescriptnRecord(symbol, name, acres);
                for current = 1 to num_y_records {
                      symbol = TableReadFieldStr(v.poly.YIELD, "SYMBOL", current);
                      wheat = TableReadFieldNum(v.poly.YIELD, "WHEAT", current);
    loops through
                      oats = TableReadFieldNum(v.poly.YIELD, "OATS", current);
    records of
    YIFI D table
                      haydry = TableReadFieldNum(v.poly.YIELD, "HAYDRY", current);
                      haywet =TableReadFieldNum(v.poly.YIELD, "HAYWET", current);
                      cf.AddYieldRecord(symbol, wheat, oats, haydry, haywet);
                                               create and show the
                cf.InitializeReport();
                                               report after all the
                cf.ShowForm();
                                               records are added
```