

## Crop\_Density

### dBASE Table

Thumbnail Not  
Available

#### Tags

SMAPVEX12, crop density, count, row spacing

#### Summary

This table was generated for use in analysis and validation associated with the SMAPVEX12 (Soil Moisture Active-Passive Validation Experiment 2012) project.

#### Description

This table presents crop density data recorded for fields surveyed during the course of the SMAPVEX12 field campaign between June 7 and July. Data include row spacing and number of plants encountered at 10 sample points, as well as averaged values for each field.

#### Credits

Grant Wiseman Senior Geomatics Scientist – Scientifique principal en géomatique Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada Telephone - Téléphone: 204-984-4080 Cellular - Cellulaire: 204-293-6074 Facsimile - Télécopieur: 204-983-2178 200-303 Main Street, Winnipeg, MB R3C 3G7 grant.wiseman@agr.gc.ca

#### Use limitations

All SMAPVEX12 data (except those already on public domain servers) will be placed on the University of Sherbrooke site. Access will be limited by password that will be provided to principle investigators and co-investigators listed below. It will be up to the principle investigators and co-investigators to ensure that staff, graduate students and post docs respect the terms of the agreement on usage and distribution. Access to the website will be restricted until July 1, 2013 for preliminary research and quality control. After July 1, 2013 all data will be transferred to a SMAP DAAC. Principle Investigators Heather McNairn, Agriculture and Agri-Food Canada Tom Jackson, USDA, ARS Hydrology and Remote Sensing Laboratory Co-Investigators Aaron Berg, University of Guelph Amine Merzouki, Agriculture and Agri-Food Canada Andreas Colliander, JPL Anne Walker, Environment Canada Brenda Toth, Environment Canada/MS/CHAL Catherine Champagne, Agriculture and Agri-Food Canada Craig Smith, Environment Canada Dara Entekhabi, MIT Eni Njoku, JPL Grant Wiseman, Agriculture and Agri-Food Canada Jarrett Powers, Agriculture and Agri-Food Canada Jiali Shang, Agriculture and Agri-Food Canada John Fitzmaurice, Agriculture and Agri-Food Canada Mahta Moghaddam, University Southern California Mike Cosh, USDA, ARS Hydrology and Remote Sensing Laboratory Narendra Das, JPL Paul Bullock, University of Manitoba Peggy O'Neill, NASA GSFC Ramata Magagi, University of Sherbrooke Rotimi Ojo, University of Manitoba Sab Kim, JPL Stéphane Bélair, Environment Canada - NWP and Data Assimilation Alicia Joseph, NASA GSFC Erika Podest, JPL John Kimball, University of Montana Kalifa Goita, University of Sherbrooke Marco Carrera, Environment Canada, Meteorological Research Division Steven Chan, JPL Vanessa Escobar, NASA GSFC

## ArcGIS Metadata ▶

### Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE environment, geoscientificInformation

\* CONTENT TYPE Downloadable Data

Hide Topics and Keywords ▲

### Citation ▶

\* TITLE Crop\_Density

PRESENTATION FORMATS \* digital table

RESOURCE IDENTIFIER  
VALUE Crop\_Density

Hide Citation ▲

### Resource Details ▶

DATASET LANGUAGES \* English (CANADA)  
DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE \* text table

\* PROCESSING ENVIRONMENT Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcGIS 10.0.5.4400

#### CREDITS

Grant Wiseman  
Senior Geomatics Scientist – Scientifique principal en géomatique  
Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada  
Telephone - Téléphone: 204-984-4080  
Cellular - Cellulaire: 204-293-6074  
Facsimile - Télécopieur: 204-983-2178  
200-303 Main Street, Winnipeg, MB R3C 3G7  
grant.wiseman@agr.gc.ca

#### ARC GIS ITEM PROPERTIES

\* NAME Crop\_Density  
\* SIZE 0.028  
\* LOCATION file:///\\mbwinfnfs106\gis\data8\projects\land\soil\SMAPVEX12\data\Geodatabase\DBFtables\Crop\_Density.dbf  
\* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

### Resource Points of Contact ▶

POINT OF CONTACT  
INDIVIDUAL'S NAME Grant Wiseman  
ORGANIZATION'S NAME Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada

CONTACT'S POSITION Senior Geomatics Scientist – Scientifique principal en géomatique  
 CONTACT'S ROLE point of contact

#### CONTACT INFORMATION ►

##### PHONE

VOICE 204-984-4080  
 FAX 204-983-2178

##### ADDRESS

TYPE  
 DELIVERY POINT R3C 3G7  
 CITY Winnipeg  
 ADMINISTRATIVE AREA Manitoba  
 POSTAL CODE 200-303 Main Street  
 COUNTRY Canada  
 E-MAIL ADDRESS grant.wiseman@agr.gc.ca

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance ►

#### RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

[Hide Resource Maintenance ▲](#)

## Resource Constraints ►

#### CONSTRAINTS

##### LIMITATIONS OF USE

All SMAPVEX12 data (except those already on public domain servers) will be placed on the University of Sherbrooke site. Access will be limited by password that will be provided to principle investigators and co-investigators listed below. It will be up to the principle investigators and co-investigators to ensure that staff, graduate students and post docs respect the terms of the agreement on usage and distribution. Access to the website will be restricted until July 1, 2013 for preliminary research and quality control. After July 1, 2013 all data will be transferred to a SMAP DAAC.

##### Principle Investigators

Heather McNairn, Agriculture and Agri-Food Canada  
 Tom Jackson, USDA, ARS Hydrology and Remote Sensing Laboratory

##### Co-Investigators

Aaron Berg, University of Guelph  
 Amine Merzouki, Agriculture and Agri-Food Canada  
 Andreas Colliander, JPL  
 Anne Walker, Environment Canada  
 Brenda Toth, Environment Canada/MS/CHAL  
 Catherine Champagne, Agriculture and Agri-Food Canada  
 Craig Smith, Environment Canada  
 Dara Entekhabi, MIT  
 Eni Njoku, JPL  
 Grant Wiseman, Agriculture and Agri-Food Canada  
 Jarrett Powers, Agriculture and Agri-Food Canada  
 Jiali Shang, Agriculture and Agri-Food Canada  
 John Fitzmaurice, Agriculture and Agri-Food Canada  
 Mahta Moghaddam, University Southern California  
 Mike Cosh, USDA, ARS Hydrology and Remote Sensing Laboratory  
 Narendra Das, JPL  
 Paul Bullock, University of Manitoba  
 Peggy O'Neill, NASA GSFC  
 Ramata Magagi, University of Sherbrooke  
 Rotimi Ojo, University of Manitoba  
 Sab Kim, JPL  
 Stéphane Bélair, Environment Canada - NWP and Data Assimilation  
 Alicia Joseph, NASA GSFC  
 Erika Podest, JPL  
 John Kimball, University of Montana  
 Kalifa Goita, University of Sherbrooke  
 Marco Carrera, Environment Canada, Meteorological Research Division  
 Steven Chan, JPL  
 Vanessa Escobar, NASA GSFC

[Hide Resource Constraints ▲](#)

## Data Quality ►

#### SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL non-geographic dataset

[Hide Scope of quality information ▲](#)

[Hide Data Quality ▲](#)

## Geoprocessing history ►

#### PROCESS

##### PROCESS NAME

DATE 2012-11-02 14:38:14

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx>DeleteField

##### COMMAND ISSUED

DeleteField Crop\_Density  
 NoName;NoName\_1;NoName\_12;NoName\_12\_13;NoName\_12\_13\_14;NoName\_12\_13\_14\_15;NoName\_12\_13\_14\_15\_16;NoName\_12\_13\_14\_15\_16\_17;NoName\_12\_13\_14\_1  
 INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

## PROCESS NAME

DATE 2012-11-15 14:24:37

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

## COMMAND ISSUED

CalculateField Crop\_Density Field\_ID 62 VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2012-11-27 15:52:06

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

## COMMAND ISSUED

CalculateField Crop\_Density Field\_ID2 [Field\_ID] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2012-11-27 15:52:42

TOOL LOCATION C:\Program Files (x86)\ArcGIS\Desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CalculateField

## COMMAND ISSUED

CalculateField Crop\_Density Field\_ID [Field\_ID2] VB #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

## PROCESS

DATE 2012-12-13 10:25:53

TOOL LOCATION c:\program files (x86)\arcgis\desktop10.0\ArcToolbox\Toolboxes\Data Management Tools.tbx\CopyRows

## COMMAND ISSUED

CopyRows W:\data8\projects\land\soil\SMAPVEX12\data\Kurt\SMAPVEX\_MASTER.gdb\Crop\_Density W:\data8\projects\land\soil\SMAPVEX12\data\Kurt\DBFtables\Crop\_Density.dbf #

INCLUDE IN LINEAGE WHEN EXPORTING METADATA No

[Hide Geoprocessing history ▲](#)**Distribution ►**

## DISTRIBUTION FORMAT

\* NAME dBASE Table

## TRANSFER OPTIONS

\* TRANSFER SIZE 0.028

[Hide Distribution ▲](#)**Fields ►**

## DETAILS FOR OBJECT Crop\_Density ►

\* TYPE Table

\* ROW COUNT 57

## DEFINITION

Crop density data recorded for fields surveyed during the course of the SMAPVEX12 field campaign.

## DEFINITION SOURCE

AAFC

## FIELD OID ►

\* ALIAS OID

\* DATA TYPE OID

\* WIDTH 4

\* PRECISION 0

\* SCALE 0

\* FIELD DESCRIPTION

Internal feature number.

\* DESCRIPTION SOURCE

ESRI

\* DESCRIPTION OF VALUES Sequential unique whole numbers that are automatically generated.

[Hide Field OID ▲](#)

## FIELD Field\_ID ►

\* ALIAS Field\_ID

\* DATA TYPE String

\* WIDTH 10

\* PRECISION 0

\* SCALE 0

FIELD DESCRIPTION

Identification number of the field in which sampling was conducted.

DESCRIPTION SOURCE

AAFC

[Hide Field Field\\_ID ▲](#)

## FIELD Row\_Direct ►

\* ALIAS Row\_Direct

\* DATA TYPE Double

\* WIDTH 19

\* PRECISION 0

\* SCALE 0

[Hide Field Row\\_Direct ▲](#)

## FIELD Mean\_Row\_S ►

```

* ALIAS    Mean_Row_S
* DATA TYPE Double
* WIDTH    19
* PRECISION 0
* SCALE    0

```

[Hide Field Mean\\_Row\\_S ▲](#)

```

FIELD Mean_Num_P ►
* ALIAS    Mean_Num_P
* DATA TYPE Double
* WIDTH    19
* PRECISION 0
* SCALE    0

```

[Hide Field Mean\\_Num\\_P ▲](#)

```

FIELD Row_Space_ ►
* ALIAS    Row_Space_
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Space\\_ ▲](#)

```

FIELD Row_Space1 ►
* ALIAS    Row_Space1
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Space1 ▲](#)

```

FIELD Row_Spac_1 ►
* ALIAS    Row_Spac_1
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Spac\\_1 ▲](#)

```

FIELD Row_Spac_2 ►
* ALIAS    Row_Spac_2
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Spac\\_2 ▲](#)

```

FIELD Row_Spac_3 ►
* ALIAS    Row_Spac_3
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Spac\\_3 ▲](#)

```

FIELD Row_Spac_4 ►
* ALIAS    Row_Spac_4
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Spac\\_4 ▲](#)

```

FIELD Row_Spac_5 ►
* ALIAS    Row_Spac_5
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Spac\\_5 ▲](#)

```

FIELD Row_Spac_6 ►
* ALIAS    Row_Spac_6
* DATA TYPE Integer
* WIDTH    9
* PRECISION 9
* SCALE    0

```

[Hide Field Row\\_Spac\\_6 ▲](#)

FIELD Row\_Spac\_7 ►  
 \* ALIAS Row\_Spac\_7  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Row\\_Spac\\_7 ▲](#)

FIELD Row\_Spac\_8 ►  
 \* ALIAS Row\_Spac\_8  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Row\\_Spac\\_8 ▲](#)

FIELD Num\_Plant\_ ►  
 \* ALIAS Num\_Plant\_  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plant\\_ ▲](#)

FIELD Num\_Plant1 ►  
 \* ALIAS Num\_Plant1  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plant1 ▲](#)

FIELD Num\_Plan\_1 ►  
 \* ALIAS Num\_Plan\_1  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_1 ▲](#)

FIELD Num\_Plan\_2 ►  
 \* ALIAS Num\_Plan\_2  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_2 ▲](#)

FIELD Num\_Plan\_3 ►  
 \* ALIAS Num\_Plan\_3  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_3 ▲](#)

FIELD Num\_Plan\_4 ►  
 \* ALIAS Num\_Plan\_4  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_4 ▲](#)

FIELD Num\_Plan\_5 ►  
 \* ALIAS Num\_Plan\_5  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_5 ▲](#)

FIELD Num\_Plan\_6 ►  
 \* ALIAS Num\_Plan\_6  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_6 ▲](#)

FIELD Num\_Plan\_7 ►  
 \* ALIAS Num\_Plan\_7  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_7 ▲](#)

FIELD Num\_Plan\_8 ►  
 \* ALIAS Num\_Plan\_8  
 \* DATA TYPE Integer  
 \* WIDTH 9  
 \* PRECISION 9  
 \* SCALE 0

[Hide Field Num\\_Plan\\_8 ▲](#)

FIELD Crop\_Type ►  
 \* ALIAS Crop\_Type  
 \* DATA TYPE String  
 \* WIDTH 254  
 \* PRECISION 0  
 \* SCALE 0  
 FIELD DESCRIPTION  
 Type of crop planted at the time of sampling.  
 DESCRIPTION SOURCE  
 AAFC

[Hide Field Crop\\_Type ▲](#)

[Hide Details for object Crop\\_Density ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

\* METADATA LANGUAGE English (CANADA)  
 METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format  
 METADATA IDENTIFIER D6317535-45BC-4780-B4AB-8A543BDDEE61  
 SCOPE OF THE DATA DESCRIBED BY THE METADATA \* non-geographic dataset  
 SCOPE NAME \* dataset  
 \* LAST UPDATE 2013-01-10  
 ARCGIS METADATA PROPERTIES  
 METADATA FORMAT ArcGIS 1.0  
 METADATA STYLE North American Profile of ISO19115 2003  
 STANDARD OR PROFILE USED TO EDIT METADATA NAP  
 CREATED IN ARCGIS FOR THE ITEM 2012-12-05 11:43:42  
 LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-01-10 16:00:47  
 AUTOMATIC UPDATES  
 HAVE BEEN PERFORMED Yes  
 LAST UPDATE 2013-01-10 16:00:47

[Hide Metadata Details ▲](#)

## Metadata Maintenance ►

MAINTENANCE  
 UPDATE FREQUENCY as needed

[Hide Metadata Maintenance ▲](#)

## FGDC Metadata (read-only) ►

### Entities and Attributes ►

DETAILED DESCRIPTION  
 ENTITY TYPE  
 ENTITY TYPE LABEL Crop\_Density  
 ENTITY TYPE DEFINITION  
 Crop density data recorded for fields surveyed during the course of the SMAPVEX12 field campaign.  
 ENTITY TYPE DEFINITION SOURCE AAFC  
 ATTRIBUTE  
 ATTRIBUTE LABEL OID  
 ATTRIBUTE DEFINITION  
 Internal feature number.  
 ATTRIBUTE DEFINITION SOURCE ESRI  
 ATTRIBUTE DOMAIN VALUES  
 UNREPRESENTABLE DOMAIN  
 Sequential unique whole numbers that are automatically generated.

ATTRIBUTE  
 ATTRIBUTE LABEL Field\_ID  
 ATTRIBUTE DEFINITION  
 Identification number of the field in which sampling was conducted.  
 ATTRIBUTE DEFINITION SOURCE AAFC

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Direct

ATTRIBUTE  
 ATTRIBUTE LABEL Mean\_Row\_S

ATTRIBUTE  
 ATTRIBUTE LABEL Mean\_Num\_P

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Space\_

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Space1

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_1

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_2

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_3

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_4

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_5

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_6

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_7

ATTRIBUTE  
 ATTRIBUTE LABEL Row\_Spac\_8

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plant\_

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plant1

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_1

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_2

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_3

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_4

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_5

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_6

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_7

ATTRIBUTE  
 ATTRIBUTE LABEL Num\_Plan\_8

ATTRIBUTE  
 ATTRIBUTE LABEL Crop\_Type  
 ATTRIBUTE DEFINITION  
 Type of crop planted at the time of sampling.  
 ATTRIBUTE DEFINITION SOURCE AAFC

*Hide Entities and Attributes ▲*