

Crop_Density

File Geodatabase 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

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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/MSCH/AL 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 Goïta, 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

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ARCGIS ITEM PROPERTIES

* **NAME** Crop_Density

* **LOCATION**

file:///\\mbwinnfs106\\gis\$\\data8\\projects\\land\\soil\\SMAPVEX12\\data\\Geodatabase\\SMAPVEX_MASTER.gdb

* **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 ►

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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/MSCHAL 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_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_15_16_17_18;NoName_12_13_14_15_16_17_18_19;NoName_12_13_14_15_16_17_18_19_20;NoName_12_13_14_15_16_17_18_19_20_21;NoName_12_13_14_15_16_17_18_19_20_21_22;NoName_12_13_14_15_16_17_18_19_20_21_22_23;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27;NoName_12_13_14_15_16_17_18_19_20_21_22_23_24_25_26_27_28

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

PROCESS NAME

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

PROCESS NAME

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

[Hide Geoprocessing history ▲](#)

Distribution ►

DISTRIBUTION FORMAT

* NAME File Geodatabase Table

[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 [OBJECTID ►](#)

* ALIAS OBJECTID

* 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 OBJECTID ▲](#)

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. Field 62 was split and planted with several crops, as follows:

62W: Corn

62SE: Young Canola

62NE: Old Canola

DESCRIPTION SOURCE

AAFC

[Hide Field Field_ID ▲](#)

FIELD Crop_Type ►

* ALIAS Crop_Type

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Type of crop planted at the time of sampling.

DESCRIPTION SOURCE

AAFC

[Hide Field Crop_Type ▲](#)

FIELD Row_Direction ►

* ALIAS Row_Direction

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Crop row orientation in degrees.

DESCRIPTION SOURCE

AAFC

[Hide Field Row_Direction ▲](#)

FIELD Mean_Row_Space ►

* ALIAS Mean_Row_Space

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Average distance between rows, measured in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Mean_Row_Space ▲

FIELD Mean_Num_Plant ►

* ALIAS Mean_Num_Plant

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Average count of the number of plants in the span of 1 m.

DESCRIPTION SOURCE

AAFC

Hide Field Mean_Num_Plant ▲

FIELD Row_Space_1 ►

* ALIAS Row_Space_1

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Distance between rows at first point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_1 ▲

FIELD Row_Space_2 ►

* ALIAS Row_Space_2

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Distance between rows at second point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_2 ▲

FIELD Row_Space_3 ►

* ALIAS Row_Space_3
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Distance between rows at third point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_3 ▲

FIELD Row_Space_4 ►

* ALIAS Row_Space_4
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Distance between rows at fourth point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_4 ▲

FIELD Row_Space_5 ►

* ALIAS Row_Space_5
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Distance between rows at fifth point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_5 ▲

FIELD Row_Space_6 ►

* ALIAS Row_Space_6
* DATA TYPE Integer
* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Distance between rows at sixth point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_6 ▲

FIELD Row_Space_7 ►

* ALIAS Row_Space_7

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Distance between rows at seventh point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_7 ▲

FIELD Row_Space_8 ►

* ALIAS Row_Space_8

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Distance between rows at eighth point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

Hide Field Row_Space_8 ▲

FIELD Row_Space_9 ►

* ALIAS Row_Space_9

* DATA TYPE Integer

* WIDTH 4

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Distance between rows at ninth point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

[Hide Field Row_Space_9 ▲](#)

FIELD Row_Space_10 ►

* ALIAS Row_Space_10
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Distance between rows at tenth point of measurement, expressed in cm.

DESCRIPTION SOURCE

AAFC

[Hide Field Row_Space_10 ▲](#)

FIELD Num_Plant_1 ►

* ALIAS Num_Plant_1
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the first point of measurement.

DESCRIPTION SOURCE

AAFC

[Hide Field Num_Plant_1 ▲](#)

FIELD Num_Plant_2 ►

* ALIAS Num_Plant_2
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the second point of measurement.

DESCRIPTION SOURCE

AAFC

[Hide Field Num_Plant_2 ▲](#)

FIELD Num_Plant_3 ►

* ALIAS Num_Plant_3
* DATA TYPE Integer

* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the third point of measurement.

DESCRIPTION SOURCE

AAFC

Hide Field Num_Plant_3 ▲

FIELD Num_Plant_4 ►

* ALIAS Num_Plant_4
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the fourth point of measurement.

DESCRIPTION SOURCE

AAFC

Hide Field Num_Plant_4 ▲

FIELD Num_Plant_5 ►

* ALIAS Num_Plant_5
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the fifth point of measurement.

DESCRIPTION SOURCE

AAFC

Hide Field Num_Plant_5 ▲

FIELD Num_Plant_6 ►

* ALIAS Num_Plant_6
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the sixth point of measurement.

DESCRIPTION SOURCE
AAFC

[Hide Field Num_Plant_6 ▲](#)

FIELD Num_Plant_7 ►

* ALIAS Num_Plant_7
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the seventh point of measurement.

DESCRIPTION SOURCE
AAFC

[Hide Field Num_Plant_7 ▲](#)

FIELD Num_Plant_8 ►

* ALIAS Num_Plant_8
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the eighth point of measurement.

DESCRIPTION SOURCE
AAFC

[Hide Field Num_Plant_8 ▲](#)

FIELD Num_Plant_9 ►

* ALIAS Num_Plant_9
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the ninth point of measurement.

DESCRIPTION SOURCE
AAFC

[Hide Field Num_Plant_9 ▲](#)

FIELD Num_Plant_10 ►

* ALIAS Num_Plant_10
* DATA TYPE Integer
* WIDTH 4
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

A count of the number of plants in the span of 1 m at the tenth point of measurement.

DESCRIPTION SOURCE

AAFC

[Hide Field Num_Plant_10 ▲](#)

[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 2013-03-19

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
METADATA STYLE FGDC CSDGM Metadata
STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2012-12-20 11:41:13
LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-03-19 10:12:59

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2013-03-19 10:12:59

[Hide Metadata Details ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed