

Crop_Biomass

File Geodatabase Table

Thumbnail Not Available

Tags

oven-dry mass, environment, soil water content, wet mass, phenology, geoscientificInformation, crop biomass, SMAPVEX12

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 summarizes the wet, dry and oven dry biomass values measured for samples taken during the course of the 2012 SMAPVEX12 field campaign between June 7 and July 19. Also included are crop type and phenology, and derived plant percentage water content values. In addition, the table the sample site identification number, allowing the biomass values to be geographically located.

Credits

Grant Wiseman Senior Geomatics Scientist – Scientifique principal en géomatique Agriculture and Agri-Food Canada – Agriculture et Agroalimentaire Canada Telephone - Téléphone: 204-259-4006 Cellular - Cellulaire: 204-293-6074 Facsimile - Télécopieur: 204-259-4055 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/MSCH/HAL 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
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

THEME KEYWORDS oven-dry mass, environment, soil water content, wet mass, phenology, geoscientificInformation, crop biomass, SMAPVEX12

[Hide Topics and Keywords ▲](#)

Citation ►

* TITLE Crop_Biomass

PRESENTATION FORMATS digital document
FGDC GEOSPATIAL PRESENTATION FORMAT tabular digital data

[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: 204-259-4006 Cellular - Cellulaire: 204-293-6074 Facsimile -
Télécopieur: 204-259-4055 200-303 Main Street, Winnipeg, MB R3C 3G7
grant.wiseman@agr.gc.ca

ARCGIS ITEM PROPERTIES

* NAME Crop_Biomass

* LOCATION

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

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

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](#) ▲

Distribution ►

DISTRIBUTION FORMAT

* NAME File Geodatabase Table

[Hide Distribution](#) ▲

Fields ►

DETAILS FOR OBJECT [Crop_Biomass](#) ►

* TYPE Table

* ROW COUNT 1326

DEFINITION

Wet, dry and oven dry crop biomass values

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 [Sample_Date ►](#)

* ALIAS Sample_Date
* DATA TYPE Date
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Date the sample was collected.

DESCRIPTION SOURCE

AAFC

[Hide Field Sample_Date ▲](#)

FIELD [Site_ID ►](#)

* ALIAS Site_ID
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Identification site number of the point where the sample was taken.

DESCRIPTION SOURCE

AAFC

[Hide Field Site_ID ▲](#)

FIELD [Air_to_OD_Cor_Applied ►](#)

* ALIAS Air_to_OD_Cor_Applied
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Field states whether a air dry to oven dry correction factor has been applied.

DESCRIPTION SOURCE

AAFC

[Hide Field Air_to_OD_Cor_Applied ▲](#)

FIELD [Plant_Water_Cont_PCT ►](#)

* ALIAS Plant_Water_Cont_PCT
* DATA TYPE Double
* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Plant Water content as percentage. Calculated as (Net wet sample weight minus net dry sample weight) divided by Net wet sample weight multiplied by 100.

[Hide Field Plant_Water_Cont_PCT ▲](#)

FIELD [Area_Plant_Water_Cont_g_m2 ►](#)

* ALIAS Area_Plant_Water_Cont_g_m2

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

The area plant water is giving in grams per square meter, and the calculation was made as following : for wheat and pasture was plant water conten multiplied by 4 and for row crops was average water content per plant multiplied by plant density.

DESCRIPTION SOURCE

AAFC

[Hide Field Area_Plant_Water_Cont_g_m2 ▲](#)

FIELD [Total_Dry_Biomass_g ►](#)

* ALIAS Total_Dry_Biomass_g

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Total net dry biomass weight in grams with the bag weight removed.

DESCRIPTION SOURCE

AAFC

[Hide Field Total_Dry_Biomass_g ▲](#)

FIELD [Crop_Type ►](#)

* ALIAS Crop_Type

* DATA TYPE String

* WIDTH 255

* PRECISION 0

* SCALE 0

FIELD DESCRIPTION

Type crop the field where the sample was taken.

DESCRIPTION SOURCE

AAFC

[Hide Field Crop_Type ▲](#)

FIELD Crop_Part ►

* ALIAS Crop_Part
* DATA TYPE String
* WIDTH 255
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Plant part of crop sample (leaves, stems, flowers, pods, fruit). Total indicates the total biomass value of all plant parts for each site ID.

DESCRIPTION SOURCE

AAFC

[Hide Field Crop_Part ▲](#)

FIELD Net_W_Sample_Total_g ►

* ALIAS Net_W_Sample_Total_g
* DATA TYPE Double
* WIDTH 8
* PRECISION 0
* SCALE 0

FIELD DESCRIPTION

Total net wet biomass weight in grams with the bag weight removed.

DESCRIPTION SOURCE

AAFC

[Hide Field Net_W_Sample_Total_g ▲](#)

[Hide Details for object Crop_Biomass ▲](#)

[Hide Fields ▲](#)

Metadata Details ►

METADATA LANGUAGE English (CANADA)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

SCOPE NAME * dataset

* LAST UPDATE 2013-03-19

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE ISO 19139 Metadata Implementation Specification

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2013-03-11 14:59:08
LAST MODIFIED IN ARCGIS FOR THE ITEM 2013-03-19 10:09:55

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2013-03-19 10:09:55