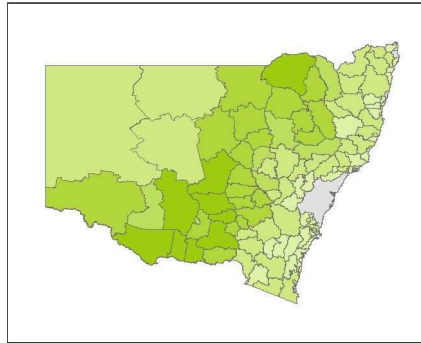


Cropping - All Straw, Hay and Silage Residues (SA2 Level)

File Geodatabase Feature Class



Tags

cereal straw, non-cereal straw, hay, silage, residues, biomass, bioenergy, broadacre, pasture, cropping, agriculture

Summary

To identify the location and mass in tonnes (as produced in the field at harvest) of cereal straw, non-cereal straw and hay and silage residues Potentially Available for Harvest (PAfH) across NSW, Australia.

Description

This dataset estimates the mass in tonnes (as produced in the field at harvest) of cereal straw, non-cereal straw and hay and silage residues Potentially Available for Harvest (PAfH) across NSW, Australia. This information has been collated for the Australian Biomass for Bioenergy Assessment (ABBA) project and will be available for use on the Australian Renewable Energy Mapping Infrastructure (AREMI) platform, to build a national map to service the renewable energy sector.

The boundary features were extracted from the Australian Bureau of Statistics (ABS) Australian Statistical Geography Standard (ASGS) digital boundaries [Copyright Commonwealth of Australia administered by the ABS]. This dataset is mapped at the Statistical Area Level 2 (SA2).

Each SA2 region shows the average annual total of cereal straw, non-cereal straw and hay and silage residues for the period July 2010 to June 2015 (average of 5 years). Each SA2 region also shows the combined total of these 3 residue types. This layer gives a quick reference summary of the 3 residue types, which have been individually mapped in more detail to crop type. In the case of the cereal hay recorded, please note that there is potentially a small proportion of the data that may also be accounted for in both the Cereal straw and Hay and Silage totals. The SA2 residues were derived using the 'parent' SA4 region residue totals (calculated using the ABS ASGS Agricultural Commodities, Australia, cat. no. 7121.0 data cubes and from research carried out by the NSW Department of Industry - Lands & Forestry) and by applying calculated percentages of each crop production from the ABS 2010-11 SA2 agricultural survey data to determine the distribution of residues at this level. Please note the location of residues for the SA2 maps is based on the 2010-11 crop production distribution.

Note: The SA4 residue totals were calculated using Harvest Index (HI) values and based on a formula that considered a non-harvestable component and the retention of stubble for soil protection. Some SA2 regions were merged and the results were combined. Most commonly merged regions were built up areas contained wholly within the same regional area (i.e. Goulburn and Goulburn Region were merged). Some adjacent regions along the coast were also merged as they were very small areas with very little residues. The Sydney basin, Newcastle and Lake Macquarie, Central Coast and Illawarra regions were not

mapped as they are heavily populated areas.

For more information on the derivation of the residue volumes please contact the NSW Department of Industry - Lands & Forestry unit and look at - O'Connell D, Farine D, Dunlop M et al. (Year unknown) *'Opportunities for energy efficiency, regional self-sufficiency and energy production for Australian grain growers- Phase I and II'*, GRDC Project Code: CSA00012.

Credits

NSW Department of Industry - Lands & Forestry

Use limitations

This dataset has been made available for information purposes only. No claim is made as to the accuracy or authenticity of the data. The NSW Government and this department (NSW Department of Industry - Lands & Forestry) does not accept liability to any person for the information or advice (or the use of such information or advice) which has been provided in this dataset.

Extent

West 140.999475 **East** 153.638727
North -28.157020 **South** -37.505060

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

ArcGIS Metadata ►

Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE farming, environment, geoscientificInformation

* CONTENT TYPE Downloadable Data
EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION No

[Hide Topics and Keywords ▲](#)

Citation ►

TITLE Cropping - All Straw, Hay and Silage Residues (SA2 Level)
PUBLICATION DATE 2017-07-18 00:00:00
REVISION DATE 2018-11-30 00:00:00

EDITION 1.3
EDITION DATE 2017-07-18

PRESENTATION FORMATS * digital map

OTHER CITATION DETAILS

It is recommended that this dataset be referred to as:

Wade S.L., Barry C.M., Nelson M.D. & Gammridge L. (compilers) 2018. Renewable energy map of New South Wales, Version 1.3 (Digital Dataset). Geological Survey of New South Wales, Maitland.

Please note the raw data has been sourced from "NSW Department of Industry - Lands & Forestry"

We (NSW Department of Planning & Environment - Resources and Geoscience) are the Publishers, and the others (NSW Department of Industry - Lands & Forestry) are the Custodians.

[Hide Citation ▲](#)

Citation Contacts ►

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CONTACT'S ROLE custodian

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LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>

NAME NSW Resources and Geoscience website

DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience

FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

Resource Details ►

DATASET LANGUAGES * English (AUSTRALIA)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

SPATIAL REPRESENTATION TYPE * vector

* PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.4.0.5524

CREDITS

NSW Department of Industry - Lands & Forestry

ARCGIS ITEM PROPERTIES

* NAME Cropping_all_straw_hay_silage_residues

* LOCATION file:///Maitlfp11

\group\Geosurvey\GeoInfo\GeoSpatial\Products\Mapping\State\NSW Renewables\2019
\Online data\RenewablesData.gdb

* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

Extents ►

EXTENT

GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

* WEST LONGITUDE 140.999475

* EAST LONGITUDE 153.638727

* NORTH LATITUDE -28.157020

* SOUTH LATITUDE -37.505060

* EXTENT CONTAINS THE RESOURCE Yes

EXTENT IN THE ITEM'S COORDINATE SYSTEM

* WEST LONGITUDE 140.999475

* EAST LONGITUDE 153.638727

- * SOUTH LATITUDE -37.505060
- * NORTH LATITUDE -28.157020
- * EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

Resource Points of Contact ►

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DESCRIPTION The website of the NSW Department of Planning & Environment, Division of Resources and Geoscience
FUNCTION PERFORMED information

Hide Contact information ▲

Hide Resource Points of Contact ▲

Resource Maintenance ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY as needed

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INDIVIDUAL'S NAME Catherine Carney
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Hide Resource Maintenance ▲

Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

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LEGAL CONSTRAINTS

LIMITATIONS OF USE

THE FOLLOWING LIMITATION APPLIES TO THE DERIVATIVE WORKS AND PLATFORM OF DELIVERY:

<http://www.planning.nsw.gov.au/Copyright-and-Disclaimer>

[Hide Resource Constraints ▲](#)

Spatial Reference ►

ARCGIS COORDINATE SYSTEM

- * TYPE Geographic
- * GEOGRAPHIC COORDINATE REFERENCE GCS_GDA_1994
- * COORDINATE REFERENCE DETAILS

GEOGRAPHIC COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER 4283
X ORIGIN -400
Y ORIGIN -400
XY SCALE 999999999.99999988
Z ORIGIN -100000
Z SCALE 10000
M ORIGIN -100000
M SCALE 10000
XY TOLERANCE 8.9831528411952133e-009
Z TOLERANCE 0.001
M TOLERANCE 0.001
HIGH PRECISION true
LEFT LONGITUDE -180
LATEST WELL-KNOWN IDENTIFIER 4283
WELL-KNOWN TEXT GEOGCS["GCS_GDA_1994",DATUM["D_GDA_1994",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433],AUTHORITY["EPSG",4283]]

REFERENCE SYSTEM IDENTIFIER

- * VALUE 4283
- * CODESPACE EPSG
- * VERSION 8.3.4(3.0.1)

[Hide Spatial Reference ▲](#)

Spatial Data Properties ►

VECTOR ►

- * LEVEL OF TOPOLOGY FOR THIS DATASET geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME Cropping_all_straw_hay_silage_residues
* OBJECT TYPE composite
* OBJECT COUNT 124

[Hide Vector ▲](#)

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME Cropping_all_straw_hay_silage_residues
* FEATURE TYPE Simple
* GEOMETRY TYPE Polygon
* HAS TOPOLOGY FALSE
* FEATURE COUNT 124
* SPATIAL INDEX TRUE
* LINEAR REFERENCING FALSE

[Hide ArcGIS Feature Class Properties ▲](#)

[Hide Spatial Data Properties ▲](#)

Lineage ►

LINEAGE STATEMENT

This dataset estimates the mass in tonnes (as produced in the field at harvest) of cereal straw, non-cereal straw and hay and silage residues Potentially Available for Harvest (PAfH) across NSW, Australia. This information has been collated for the Australian Biomass for Bioenergy Assessment (ABBA) project and will be available for use on the Australian Renewable Energy Mapping Infrastructure (AREMI) platform, to build a national map to service the renewable energy sector.

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Each SA2 region shows the average annual total of cereal straw, non-cereal straw and hay and silage residues for the period July 2010 to June 2015 (average of 5 years). Each SA2 region also shows the combined total of these 3 residue types. This layer gives a quick reference summary of the 3 residue types, which have been individually mapped in more detail to crop type. In the case of the cereal hay recorded, please note that there is potentially a small proportion of the data that may also be accounted for in both the Cereal straw and Hay and Silage totals. The SA2 residues were derived using the 'parent' SA4 region residue totals (calculated using the ABS ASGS Agricultural Commodities, Australia, cat. no. 7121.0 data cubes and from research carried out by the NSW Department of Industry - Lands & Forestry) and by applying calculated percentages of each crop production from the ABS 2010-11 SA2 agricultural survey data to determine the distribution of residues at this level. Please note the location of residues for the SA2 maps is based on the 2010-11 crop production distribution.

Note: The SA4 residue totals were calculated using Harvest Index (HI) values and based on a formula that considered a non-harvestable component and the retention of stubble for soil protection. Some SA2 regions were merged and the results were combined. Most commonly merged regions were built up areas contained wholly within the same regional area (i.e. Goulburn and Goulburn Region were merged). Some adjacent regions along the coast were also merged as they were very small areas with very little residues. The Sydney basin, Newcastle and Lake Macquarie, Central Coast and Illawarra regions were not mapped as they are heavily populated areas.

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[Hide Lineage ▲](#)

Geoprocessing history ▼

Distribution ►

DISTRIBUTOR ►

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CONTACT'S ROLE publisher

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ONLINE RESOURCE
LOCATION <http://www.resourcesandgeoscience.nsw.gov.au>
NAME NSW Resources and Geoscience website
DESCRIPTION The website of the NSW Department of Planning & Environment,
Division of Resources and Geoscience
FUNCTION PERFORMED information

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT
* NAME File Geodatabase Feature Class
VERSION 1.1

[Hide Distribution ▲](#)

Fields ►

DETAILS FOR OBJECT [Cropping_all_straw_hay_silage_residues ►](#)

* TYPE Feature Class
* ROW COUNT 124

DEFINITION

Cropping - All Straw, Hay and Silage Residues (SA2 Level)

DEFINITION SOURCE

NSW Department of Industry - Lands & Forestry

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 SHAPE ►

- * ALIAS Shape
- * DATA TYPE Geometry
- * WIDTH 0
- * PRECISION 0
- * SCALE 0
- * FIELD DESCRIPTION
Feature geometry.

- * DESCRIPTION SOURCE
Esri

- * DESCRIPTION OF VALUES
Coordinates defining the features.

Hide Field SHAPE ▲

FIELD SA2_REGION ►

- * ALIAS SA2 REGION
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Statistical area level 2 (see lineage statement for context)

- DESCRIPTION SOURCE
GSNSW

Hide Field SA2_REGION ▲

FIELD SA4_REGION ►

- * ALIAS SA4 REGION
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Statistical area level 4 (see lineage statement for context)

- DESCRIPTION SOURCE
GSNSW

Hide Field SA4_REGION ▲

FIELD RESIDUE_TYPE ►

- * ALIAS RESIDUE TYPE
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0
- FIELD DESCRIPTION
Residue type

- DESCRIPTION SOURCE
GSNSW

[Hide Field RESIDUE_TYPE ▲](#)

FIELD [BIOMASS_DESCRIPTION ▶](#)

- * ALIAS BIOMASS DESCRIPTION
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Description of biomass

DESCRIPTION SOURCE

GSNSW

[Hide Field BIOMASS_DESCRIPTION ▲](#)

FIELD [TIMEFRAME ▶](#)

- * ALIAS TIMEFRAME
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average annual total of cereal straw, non-cereal straw and hay and silage residues for the period July 2010 to June 2015

[Hide Field TIMEFRAME ▲](#)

FIELD [SA2_Total_All_Straw_HaySilage_t ▶](#)

- * ALIAS SA2 Total All Straw, Hay and Silage (t)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average annual total of cereal straw, non-cereal straw and hay and silage residues (tonnes) for the period July 2010 to June 2015

DESCRIPTION SOURCE

GSNSW

[Hide Field SA2_Total_All_Straw_HaySilage_t ▲](#)

FIELD [SA2_Total_Cereal_Straw_t ▶](#)

- * ALIAS SA2 Total Cereal Straw (t)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average annual total of cereal straw residues (tonnes) for the period July 2010 to June 2015

DESCRIPTION SOURCE

GSNSW

[Hide Field SA2_Total_Cereal_Straw_t ▲](#)

FIELD [SA2_Total_Non_Cereal_Straw_t](#) ►

- * ALIAS SA2 Total Non-cereal Straw (t)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average annual total of non-cereal straw residues (tonnes) for the period July 2010 to June 2015

DESCRIPTION SOURCE

GSNSW

[Hide Field SA2_Total_Non_Cereal_Straw_t](#) ▲

FIELD [SA2_Total_Hay_and_Silage_t](#) ►

- * ALIAS SA2 Total Hay and Silage (t)
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Average annual total of hay and silage residues (tonnes) for the period July 2010 to June 2015

DESCRIPTION SOURCE

GSNSW

[Hide Field SA2_Total_Hay_and_Silage_t](#) ▲

FIELD [NOTE](#) ►

- * ALIAS NOTE
- * DATA TYPE String
- * WIDTH 255
- * PRECISION 0
- * SCALE 0

FIELD DESCRIPTION

Comments field

DESCRIPTION SOURCE

GSNSW

[Hide Field NOTE](#) ▲

FIELD [Shape_STArea__](#) ►

- * ALIAS Shape_STArea__
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0
- * SCALE 0

[Hide Field Shape_STArea__](#) ▲

FIELD [Shape_STLength__](#) ►

- * ALIAS Shape_STLength__
- * DATA TYPE Double
- * WIDTH 8
- * PRECISION 0

* SCALE 0

[Hide Field Shape_STLength__ ▲](#)

FIELD Shape_Length ►

* ALIAS Shape_Length

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Length of feature in internal units.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape_Length ▲](#)

FIELD Shape_Area ►

* ALIAS Shape_Area

* DATA TYPE Double

* WIDTH 8

* PRECISION 0

* SCALE 0

* FIELD DESCRIPTION

Area of feature in internal units squared.

* DESCRIPTION SOURCE

Esri

* DESCRIPTION OF VALUES

Positive real numbers that are automatically generated.

[Hide Field Shape_Area ▲](#)

[Hide Details for object Cropping_all_straw_hay_silage_residues ▲](#)

[Hide Fields ▲](#)

References ►

PORTRAYAL CATALOGUE CITATION ►

TITLE Cropping - All Straw, Hay and Silage Residues (SA2 Level)

PUBLICATION DATE 2017-07-18 00:00:00

REVISION DATE 2018-11-30 00:00:00

EDITION 1.3

EDITION DATE 2018-11-30

PRESENTATION FORMATS digital map

FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

OTHER CITATION DETAILS

It is recommended that this dataset be referred to as:

Wade S.L., Barry C.M., Nelson M.D. & Gammridge L. (compilers) 2018. Renewable energy map of New South Wales, Version 1.3 (Digital Dataset). Geological Survey of New South Wales, Maitland.

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[Hide Portrayal catalogue citation ▲](#)

[Hide References ▲](#)

Metadata Details ►

- * METADATA LANGUAGE English (AUSTRALIA)
- * METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

METADATA IDENTIFIER 5EC39A24-C6C3-45A3-BDBB-44C4E3910D73

SCOPE OF THE DATA DESCRIBED BY THE METADATA * dataset
SCOPE NAME * dataset

* LAST UPDATE 2019-02-11

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0
STANDARD OR PROFILE USED TO EDIT METADATA ISO19139
METADATA STYLE ISO 19139 Metadata Implementation Specification

CREATED IN ARCGIS FOR THE ITEM 2017-06-30 10:59:37
LAST MODIFIED IN ARCGIS FOR THE ITEM 2019-02-11 15:28:05

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes
LAST UPDATE 2019-02-11 15:28:05

[Hide Metadata Details ▲](#)

Metadata Contacts ►

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CONTACT'S ROLE custodian

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FUNCTION PERFORMED information

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[Hide Metadata Contacts ▲](#)

Metadata Maintenance ►

MAINTENANCE

UPDATE FREQUENCY as needed

MAINTENANCE CONTACT

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[Hide Metadata Maintenance ▲](#)

Thumbnail and Enclosures ►

THUMBNAIL

THUMBNAIL TYPE JPG

[Hide Thumbnail and Enclosures ▲](#)

FGDC Metadata (read-only) ▼