Title	Methane and carbon dioxide emissions in cattle derived from GreenFeed Emission Monitoring systems
Alternative title(s)	Methane and CO2 production in cattle derived from GEM machines
Abstract	Measurement of methane and carbon dioxide production in Angus cattle on ad-lib feeding, measured in the field and yards. Field measurements were done on bulls and cows. Yard measurements taken on heifers is complimented with feed intake measurements. Measurements were taken using portable GreenFeed machines and feed intake measured using automatic feed recorders. Yard measurements were used to establish measurement protocols for data quality using GreenFeed machines.
Resource locator	
Data Quality Statement	Name: Data Quality Statement Protocol: WWW:DOWNLOAD-1.0-http--download Description: Data quality statement for Methane and carbon dioxide emissions in cattle derived from GreenFeed Emission Monitoring systems Function: download
Unique resource identifier	
Code	e4edf279-7f08-41b7-ae7e-f3bbbf871811
Presentation form	
Edition	ETU_testGFdata1-7
Dataset language	eng
Metadata standard	
Name	ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata
Version	1.1
Dataset URI	https://data.iar.dpi.nsw.gov.au/dataset/e4edf279-7f08-41b7-ae7e-f3bbbf871811
Status	planned
Spatial representation type	textTable
Spatial reference system	
Authority code	GDA94 Geographic (Lat\Long)

Code identifying the spatial reference system	4283
Additional information source	7 cohorts of beef cattle were measured for methane and CO2 production using GEM machines over the time period from 2014 to 2015 inclusive
Topic category	Environment

Keyword set

keyword value	AGRICULTURE-Livestock
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16

Geographic location

West bounding longitude	147.940993
East bounding longitude	147.959919
North bounding latitude	-31.989151
South bounding latitude	-31.980888
NSW Place Name	Trangie

Vertical extent information

Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711

Temporal extent

Begin position	2014-06-07
End position	N/A

Dataset reference date

Date type	creation
Effective date	2016-02-29
Date type	publication
Effective date	2016-07-04

Resource maintenance

Maintenance and update frequency	asNeeded

Contact info

Organisation name	DPI
Full postal address	contact@dpi.nsw.gov.au
Telephone number	02 6391 3000
Email address	contact@dpi.nsw.gov.au
Responsible party role	pointOfContact

Lineage

GEM data is sourced from the C-Lock Inc company which distributes /sells the GEM machines. The company have developed a within house algorithium to produce the data (it is important that those sourcing and using the data understand data filtering systems applied to data released from C-Lock Inc, otherwise one may not be comparing apples with apples). Data derived from the K heifers which also included feed intake provided enough data to develop optimal test protocols (published in journal of anim sci.) to ensure GEM data collected in-situ provided valid results of emissions produced by cattle. These recommendations (protocols) should be observed when using GEM data irrespective of source.

Constraint set

Use constraints	This data is provided under licence by the Office of Environment and Heritage (DPI). For further inquiries contact raj.ramachandran@dpi.nsw.gov.au.
Limitations on public access	

Scope	dataset

Responsible party

Contact position	Data Broker
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Web address	**https://www.dpi.nsw.gov.au**
Responsible party role	pointOfContact

Metadata point of contact

Contact position	Data Broker
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Email address	contact@dpi.nsw.gov.au
Responsible party role	distributor

Metadata date

2020-04-22

Metadata language

eng