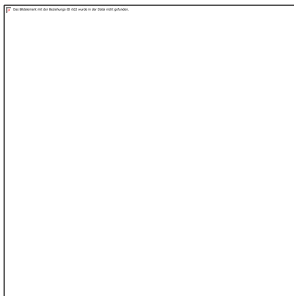




Lamb Three Ways:
Three ways of
preparing one
ingredient



Agrovoc Three Ways

Three different ways for using Agrovoc

10/4/2017

Three ways of using Agrovoc

- AutoTagging
 - used when little or no metadata available
- AutoSuggest
 - used within a UI for manually adding keyword terms
- Concept Matching
 - useful when tagging resources in a domain specific repository...match terms in a vocabulary

AutoTagging

- from a controlled vocabulary
- TaggingService developed based upon Agrotagger
- Supports other vocabularies (Nalt, Cabi, GACS)
- Can be integrated into harvesting tools or UI
- Text can be extracted from a file or a group of metadata fields (titles, abstracts) sent for tagging
- May require manual curation...but saves typing

Autotagging from a file using command line (gacs)

```
% sh TagFile.sh -filename CGIAR_Gender_Scoping_Study.pdf -vocabulary gacs
```

```
Loading Vocabulary: gacs
```

```
Tagging CGIAR_Gender_Scoping_Study.pdf
```

```
scientists, gender, CGIAR, research, women, taxonomy, gender relations, processing,  
analysis, computer software
```

```
Done.
```

Autotagging programmatically

- Integrate TaggingService using a java library (autotagger.jar)
- Select metadata fields from a DB or other source
- Concatenate a blob of text and pass to TaggingService
- Can also pass a reference to a file
 - uses Apache Tika to extract text
- Get back tags from a selected vocabulary and add as keyword metadata
- Works well when harvesting data automatically

Use content from Article Title and Abstract fields

[Home](#) | [Show Teal Article for ArticleID: 7](#) [Edit Record](#)

Article Title: A Wetland to Improve Agricultural Subsurface Drainage Water Quality

Abstract: The effectiveness of wetlands to cleanse event-driven agricultural drainage water in east-central Illinois a subsurface-drained agricultural field in a corn-soybean rotation-Hydrology data from the wetland inlet and outlet were used to develop a water budget for the system-Water quality data were collected from the wetland inlet-outlet nitrate-nitrogen ($\text{NO}_3\text{-N}$)-orthophosphate ($\text{PO}_4\text{-P}$)-and nine common Midwestern herbicides: trifluralin-atrazine-cyanazine-and pendimethalin-Constituent mass loads were calculated at the inlet and outlet-and both concentration-Results indicated variable performance based primarily on seasonal processes and individual chemical constituent-approximately 174 kg (32.9%) over the course of the study-although assimilation rates were seasonally dependent-assimilation were not significant.

Journal Title: Transactions of the ASABE

ISSN: [0001-2351](#)

Update Year: 2002

Year: 2002

Volume: 45

Tags extracted from file or metadata

- Tags from previous slide metadata
- Drainage water, Wetlands, Drainage, Anabolism, Herbicides, Data, Weight, Handling, Concentrating, Quality
- Tool created which iterates over every article in a database
- Over 500K articles tagged...took about 15 minutes

AutoSuggest

- Agrovoc webservice uses SKOMOS
- Vocabularies loaded into local instance of SKOSMOS
- Supports multiple SKOS based vocabularies
- Match prefLabel or altLabel
- Application UI integrates with SKOSMOS

Agrovoc

Content language

English ▾



Search

Alphabetical

Hierarchy

Groups

A B C D E F G H I J K L
M N O P Q R S T U V W X
Y Z 0-9

Aptosyax grypus
ABA
Abaca
Abalistes stellaris
Abalones
Abamectin → Avermectins
Abandoned land
Abattoir byproducts
Abattoirs
Abbottina rivularis
Abdomen
Abdominal fat
Abdominal pregnancy → Extrauterine pregnancy
Abelmoschus
Abelmoschus esculentus
Abelmoschus moschatus
Aberia → Dovyalis
Abies
Abies alba
Abies amabilis
Abies balsamea
Abies balsamea lasiocarpa → Abies lasiocarpa
Abies borisii regis
Abies cephalonica
Abies concolor
Abies firma

Vocabulary information

TITLE Agrovoc

TYPE <http://www.w3.org/2004/02/skos/core#ConceptScheme>URI <http://www.fao.org/aos/agrovoc>

Resource counts by type

Type	Count
Concept	28174

Term counts by language

Language	Preferred terms	Alternate terms	Hidden terms
English	28174	10028	0

Download this vocabulary as SKOS/RDF: [RDF/XML](#)

```
{
  - @context: {
    skos: "http://www.w3.org/2004/02/skos/core#",
    isothes: "http://purl.org/iso25964/skos-thes#",
    onki: "http://schema.onki.fi/onki#",
    uri: "@id",
    type: "@type",
    - results: {
      @id: "onki:results",
      @container: "@list"
    },
    prefLabel: "skos:prefLabel",
    altLabel: "skos:altLabel",
    hiddenLabel: "skos:hiddenLabel"
  },
  uri: "",
  - results: [
    - {
      uri: "http://lod.nal.usda.gov/nalt/9084",
      - type: [
        "skos:Concept"
      ],
      localname: "nalt/9084",
      prefLabel: "animal welfare",
      lang: "en",
      altLabel: "animal abuse",
      vocab: "nalt"
    },
    - {
      uri: "http://lod.nal.usda.gov/nalt/209813",
      - type: [
        "skos:Concept"
      ],
      localname: "nalt/209813",
      prefLabel: "animal adaptation",
      lang: "en",
      vocab: "nalt"
    },
  ],
}
```

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 Descriptions Agency/Releases Share

The more descriptive information you provide the better we can serve your needs.

Title *

A descriptive title as written on top of your report or dataset.

Status *

Select **active** if new releases are currently added to this title.

Select **inactive** if no new issues will be released.

☒ Active☐ Inactive

Subscribable *

☒ Yes☐ No

Agency's internal identifier (i.e., Slug ID) *

Abstract or Summary *

A rich paragraph providing as much explanation as possible about report or dataset, including how/why it was generated.

Save Publication

Requirements

✔ Complete all required fields

Visibility

☒ Open☐ Under Review☐ Embargo☐ Private

Term Matching

- Article Subject Terms, Keywords not always from a controlled vocabulary
- Load vocabulary into a triple store
- Index triple store into Lucene/Solr (uses jena-text)
- LuceneService search for keywords in index
- TdbService returns Concepts
- Server only returns terms matched in vocabulary

Term Matching

- Currently only implemented as a proof of concept tool
- Matches terms with `skos:prefLabel` or `skos:altLabel`
- Example article in “Gender in Agriculture” repository

Women's Empowerment in Agriculture: What Role for Food Security in Bangladesh?

Esha Sraboni ^a, Hazel J. Malapit ^b, Agnes R. Quisumbing ^b, Akhter U. Ahmed ^a

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<https://doi.org/10.1016/j.worlddev.2014.03.025>

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Summary

Using a nationally representative survey from Bangladesh, we examine the relationship between women's empowerment in agriculture, measured using the Women's Empowerment in Agriculture Index, and per capita calorie availability, dietary diversity, and adult body mass index (BMI). Accounting for potential endogeneity of empowerment, we find that increases in women's empowerment are positively associated with calorie availability and dietary diversity at the household level. Overall, household wealth, education, and occupation are more important than women's empowerment as determinants of adult nutritional status, although negative impacts of group membership and credit on male BMI suggest that intrahousehold trade-offs may exist.

Key words



women's empowerment; gender parity; agriculture; food security; south Asia; Bangladesh

Here are the results

Matching Keywords in vocabulary: agrovoc

Original: women's empowerment, gender, parity, agriculture, food security, south Asia, Bangladesh

Matched: Gender, Sex (gender), Agriculture, Asia, Bangladesh, People's Republic of Bangladesh

Dessert: How terms are used

- Terms indexed for site search
- Terms used as facets
- Terms used to link resources

Using keywords for search



[HOME](#) [BROWSE](#) [ABOUT](#)

animal products

Search

Limit your search

Keyword



Commodity



Value Chain



Geographic Location



Language



Publication Year



Resource Type



Funding Organization



Prepared For



Collection



You searched for: animal products



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« Previous | 1 - 10 of 44 | [Next](#) »

Sort by relevance ▼

10 per page ▼

1 [Livestock health product development and service delivery: South Asia strategy 2012-2017](#)

Maarse, Lucy, Dhawan, Mamta, GALVmed, August 2012



White Paper

2 [A critical indicator: livestock's contribution to gross domestic product](#)

Livestock Data Innovation in Africa, July 2013



Commissioned Report

3 [The gender and social dimensions to livestock keeping in South Asia: Implications for animal health interventions](#)

Miller, Beth A, GALVmed, March 7, 2011

Using keywords as facets to narrow search

 Search

Limit your search

Keyword

- Animal diseases 3
- Animal health 3
- Animal products 3
- Livestock 3
- Africa 1
- [more Keywords](#)

[Commodity](#)[Value Chain](#)[Geographic Location](#)[Language](#)

You searched for:

animal



Keyword : Animal health



Keyword : Animal diseases

[Start Over](#)

1 - 3 of 3

[Sort by relevance](#)[10 per page](#)

1 [A path to prosperity: new directions for African livestock](#)

Leyland, Tim, GALVmed, July 2012 Full text Commissioned Report

2 [Livestock health product development and service delivery: South Asia strategy 2012-2017](#)

Maarse, Lucy, Dhawan, Mamta, GALVmed, August 2012 Full text White Paper

3 [Is Africa different? Economics of the livestock sector](#)

Upton, Martin, 2012

Using terms to link resources

[Search](#)

A Path to Prosperity: New Directions for African Livestock

The Impetus Strategy Paper

[Download the full-sized PDF](#)

A path to prosperity: new directions for African livestock

[Full text](#)

Author: Leyland, Tim

Organizational authors: GALVmed

Publication date: July 2012

Publication year: 2012

Resource type: Commissioned Report

Rights: Attribution 3.0 United States 

Prepared for: GALVmed

Funded by: Department for International Development (DFID) , Bill & Melinda Gates Foundation (BMGF)

Language: English

Geographic location: Sub-Saharan Africa , Africa

Commodities: Livestock

Value chain: [Animal Health and Genetics Systems](#), [Agricultural Production and Extension](#), [Research and Development](#), [Agribusiness and Post-Harvest Handling](#), [Agronomics](#), [Farm and Livestock Management](#)

Keyword: [Farm Inputs](#), [Animal products](#), [Animal diseases](#), [West Africa](#), [Livestock](#), [Veterinary services](#), [Animal resources](#), [Scientists](#), [ruminant nutrition](#) , [Animal health](#), [Food security](#)

Term provides links to other resources



HOME BROWSE

Search...

Search

Limit your search

Keyword

Animal resources x 5
Animal health 3
Scientists 3
Agricultural research 2
Animal products 2
[more Keywords»](#)

Commodity >

Value Chain >

Geographic Location >

Language >

You searched for: Keyword : Animal resources



Start

1 - 5 of 5

Sort by relevance

10 per

1 [Agricultural R&D Indicators factsheet--Rwanda](#)

Rahija, Michael, Gatete, Almable, International Food Policy Research Institute (IFPRI), Rwanda Agriculture Board (RAB), April 2014

[Full text](#) White Paper

2 [Investing in the livestock sector: why good numbers matter--a sourcebook for decision makers on how to improve livestock data](#)

The World Bank, Food and Agriculture Organization of the United Nations (FAO), 2014

[Full text](#) Commissioned Report

3 [A path to prosperity: new directions for African livestock](#)



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