

The Leadership Management Dashboard Version 4.0

(LMD 4.0)

USER GUIDE

Prepared for

The National Institute of Food and Agriculture

NIFA

By Barquin International



BarquinInternational

Last Updated January 18, 2011

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Revision History

| Date | Version | Description | Custodian/Organization |
|------------------|---------|--|------------------------|
| January 17, 2010 | 0.8 | Extractions from the System Design Specification | Owen Dall |
| January 17, 2010 | 0.9 | Hierarchy (Rollup) Navigation Details | Owen Dall |
| January 18, 2010 | 1.0 | All New LMD 4. Screen Captures | Owen Dall |
| | | | |

1. Overview

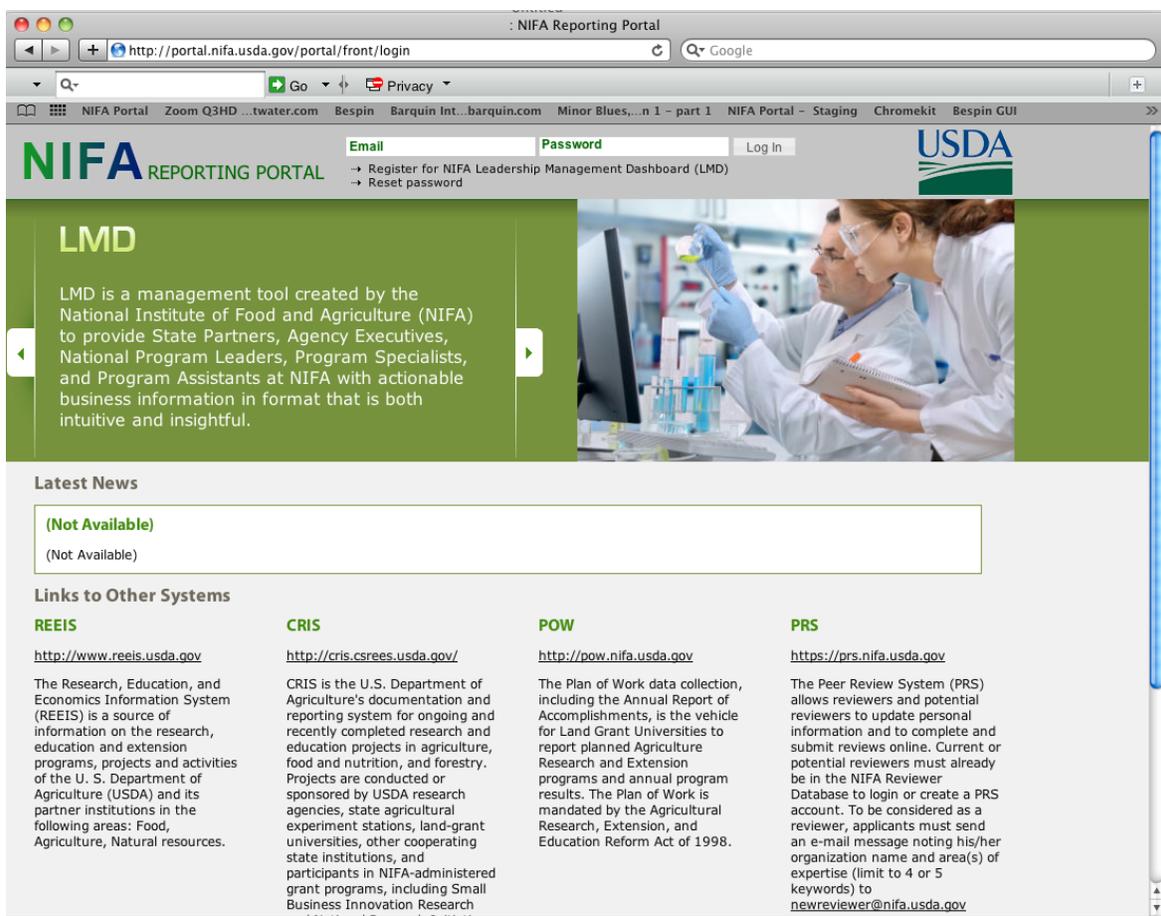
This section provides a brief description of the steps that are necessary to access and use the new 4.0 version of the Leadership Management Dashboard (LMD).

1.1. Access to LMD

Access to the new LMD requires authentication via the NIFA Applications Portal at

<http://portal.nifa.usda.gov>

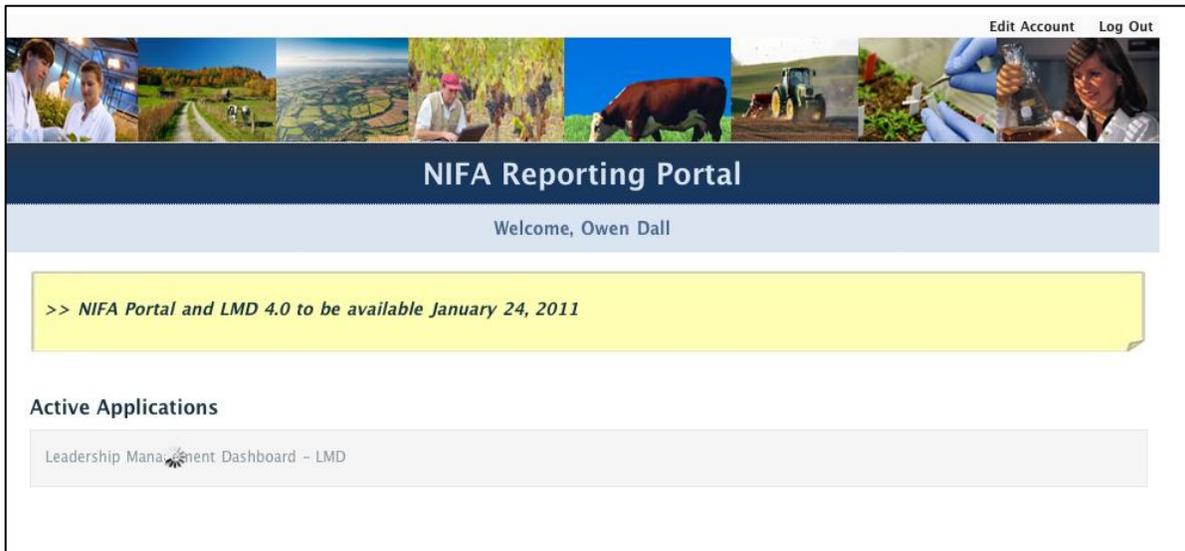
Simply enter you NIFA user name (or full email address for non-NIFA users) and password at the top of the NIFA Application Portal as shown below:



- *NIFA users can simply use their user ID instead of the full NIFA email address, for example “jbarbano” instead of jbarbano@nifa.usda.gov. The Portal will accept either.*
- *Users who do not have a NIFA user ID are required to enter the email address they used in the last version of LMD.*
- *If you do not currently have access to LMD, use the “Register for NIFA Leadership Management Dashboard” link.*

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Once a user logs in via the NIFA Applications Portal, and if authorized to use LMD, a link to access LMD will be displayed after login:



Wait for the spinner to stop and the “Leadership Management Dashboard-LMD” link to be active—then click to access LMD. The first page you will see appears as follows:

Alerts Summary (As of Jan 12, 2011)

| Alert Type | Count |
|--------------------------------------|------------|
| Project has been Awarded | |
| New Project in CRIS | |
| New Assignment in CRIS | |
| New Progress Report Submitted | 6 |
| New Termination Report Submitted | 2 |
| Project Status Has Changed | 3 |
| * Grant Termination Report Overdue | 76 |
| * Grant Termination Report Due | 34 |
| * Grant Progress Report Overdue | 98 |
| * Grant Progress Report Due | 12 |
| * Formula Termination Report Overdue | |
| * Formula Termination Report Due | 65 |
| * Formula Progress Report Overdue | |
| * Formula Progress Report Due | 357 |
| Total | 653 |

* indicates that the reported count is cumulative

Alert Type:

| + Accession Number | Status | Type | Primary Investigator | Project Contact | Institution | State | Project Title |
|--------------------|---------|-----------------------|----------------------|-----------------|---------------------------|-------|---|
| 0201083 | REVISED | HATCH | Watson, D. W. | Watson, D. W. | NORTH CAROLINA STATE UNIV | NC | Developing Strategies for Improved Pasture Fly Management |
| 0210872 | NEW | HATCH | Pierce, J. B. | Pierce, J. B. | NEW MEXICO STATE UNIV | NM | Optimizing Insect Pest Management in a Western Semi-Arid Alfalfa, Cotton, Pecan System |
| 0211082 | NEW | NRI COMPETITIVE GRANT | Harris, M. | Harris, M. | COLORADO STATE UNIVERSITY | CO | Relationship between Infant Growth & Neurocognitive Development & Maternal Dietary Intake of Omega 3 Docosahexaenoic Acid |
| 0212004 | REVISED | HATCH | Cardoza, Y. J. | Cardoza, Y. J. | NORTH CAROLINA STATE UNIV | NC | Factors Modulating Plant Resistance to Arthropods in Organic Composts |

Notice the new menu organization. The next sections will explain this in detail.

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1.2. LMD 3.4 (Old) Menu Structure

The previous top-level menu structure for LMD 3.4 was as follows:

| Leadership Management Dashboard (Release 3.4) for Owen Dall | | | | | | | | | | |
|---|-------------|-------------|------------|-----------------|----------|------------|-------------|-------------|------------|--------|
| My Snapshots | My Projects | NIFA Trends | Portfolios | Agency Projects | Workload | AREERA POW | My Settings | Definitions | Contact Us | Logout |

| MENU ITEM | DESCRIPTION |
|-----------------|--|
| My Snapshots | Yearly snapshots of data based on values selected in Settings. |
| My Projects | Personalized project alerts, digests, and summaries. |
| NIFA Trends | Trend graphs by NIFA formula funding categories and Goals and Objectives. |
| Portfolios | Trends in spending, FTEs, and project counts organized by NIFA Portfolios and Knowledge Areas with Portfolios. |
| Agency Projects | All projects in the system broken down by sponsoring agency, including NIFA, ARS, FS, ERS, or State Partners. |
| Workload | Workload of NPLs by Unit and Section and type... |
| AREERA POW | Detailed snapshots regarding Plans and Annual Reports for selected Formula funds, with views from Strategic Goals perspective, Portfolio Perspective, Funding Perspective, Geographical perspective, Institution perspective. Also search outcomes by keyword, portfolio, goal, or Knowledge Area. |
| Settings | Personalize views of Projects and Snapshots by the following dimensions: Program Area, Program, FDC, Knowledge Area, Subject of Investigation, Field of Science, and Location. |
| Definitions | Web view of important terminology used in LMD |
| Contact Us | Page to send a comment or request |
| Logout | Log out of LMD |

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1.3. New Menus for LMD 4.0

The New Top Level Menu Structure for LMD 4.0

For LMD 4.0 “NIFA Trends” and “My Snapshots” were removed as separate items, as each content area now houses its own “Trends” and “Summaries” tab.

| ITEM | LOCATION | DESCRIPTION |
|-----------------|---------------|--|
| Activities | Oracle Portal | All Post award activity tracking (e.g. Projects) such as “My Projects”, “Agency Projects” |
| My Snapshots | Oracle Portal | Knowledge Area, Subject of Investigation, Field of Science |
| State Snapshots | Oracle Portal | State views by Funding Mechanism, Organization, and Top 10 KAs and SOIs. |
| Awards | Oracle Portal | Award information by FDC (and rollups) and Program (and rollups), with drill-down to individual projects. |
| AREERA POW | Oracle Portal | AREERA Plans and Annual Reports for selected Formula Grants. |
| Workload | Oracle Portal | Workload of NPLs by Unit and Section and type... |
| Goals | Rails/Hobo | Summaries and Trends in spending, FTEs, and project counts organized by NIFA Goals, Objectives, and Knowledge Areas with Portfolios. |
| Portfolios | Rails/Hobo | Trends in spending, FTEs, and project counts organized by NIFA Portfolios and Knowledge Areas with Portfolios. |
| Analyze | Rails/Hobo | Advanced comparison and filtering options for all data |
| Definitions | Oracle Portal | Web view of important terminology used in LMD |
| Contact Us | Oracle Portal | Page to send a comment or request |

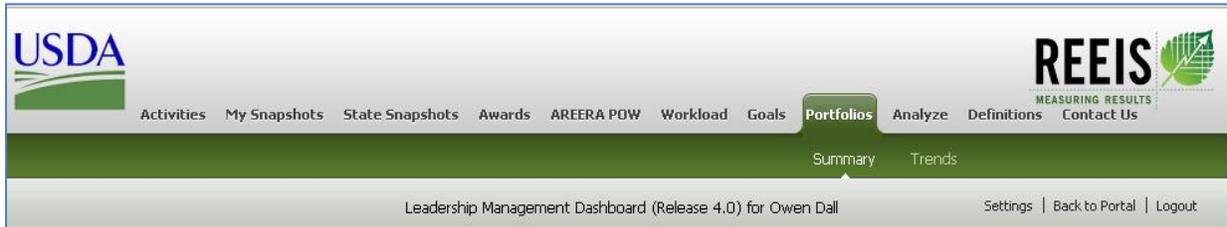
The items highlighted in blue are completely new for LMD 4.0.

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The following screen shot shows the new menu structure from the Oracle Portal portion of Application:



The following screen shot shows the equivalent menu structure from the Ruby/Rails/Hobo portion of LMD:



Note that the application will automatically redirect you to the correct module of the application for each menu option.

LMD 4.0 User Guide

The complete menu hierarchy for LMD 4.0 is documented in the following table

| Menu Level 1 | Menu Level 2 | Menu Level 3 | New for 4.0 |
|------------------------------|-----------------------------|--------------|-------------|
| Activities | My Projects | Alerts | |
| | | Digest | |
| | | Summary | |
| | Agency Projects | Multistate | |
| | | Alerts | |
| | | Digest | |
| My Snapshots | Knowledge Area | Summary | |
| | | Multistate | |
| | | | |
| | Subject | Alerts | |
| | | Digest | |
| | | Summary | |
| State Snapshots | Funding Mechanism Hierarchy | | |
| | Organization Hierarchy | | |
| | Top 10 Knowledge Areas | | |
| | Top 10 Subjects | | |
| Awards | Program Area | | |
| | Programs | | |
| | FDCs | | |
| AREERA POW | National Summary | | |
| | Strategic Goal Perspective | | |
| | Geographic Perspective | | |
| | Portfolio Perspective | | |
| | Knowledge Area Perspective | | |
| | Funding Source Perspective | | |
| | Institution Perspective | | |
| | Outcomes Search by Goal | | |
| Outcomes Search by Portfolio | | | |
| | Outcomes Search by | | |
| Workload | | | |
| Goals | Summary | | ✓ |
| | Trends | | ✓ |
| Portfolios | Summary | | ✓ |
| | Trends | | ✓ |
| Analyze | Filter | | ✓ |
| | Compare | | ✓ |
| | Rank | | ✓ |
| Definitions | | | |
| Contact Us | | | |

Separate links are provided for “Settings”, “Back to Portal”, and “Logout”.

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Settings:

USDA United States Department of Agriculture
Research, Education & Economics Information System

REEIS MEASURING RESULTS

insurance harvest drought

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

Settings

NPL Proxy Program Area Program FDC Knowledge Area Subject Field of Science Locations (State)

Select projects (in My Projects) for:
Meyer, Hendrick

You must select at least one of the following options:

- C-REEMS Program Privileges
- CRIS Projects Reviewer List

Note: If neither option is selected, then C-REEMS Programs privileges option will be used.

Submit

Activities:

USDA United States Department of Agriculture
Research, Education & Economics Information System

REEIS MEASURING RESULTS

insurance harvest drought

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

My Projects Agency Projects

My Snapshots:

USDA United States Department of Agriculture
Research, Education & Economics Information System

REEIS MEASURING RESULTS

insurance harvest drought

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

Knowledge Area Subject Field of Science

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State Snapshots:

USDA United States Department of Agriculture
Research, Education & Economics Information System

REIS MEASURING RESULTS

Activities | My Snapshots | **State Snapshots** | Awards | AREERA POW | Workload | Goals | Portfolios | Analyze | Definitions | Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

State: CALIFORNIA Fiscal Year: 2008

Funding Mechanism | Organization | Knowledge Area Top 10 | Subjects Top 10

Awards:

USDA United States Department of Agriculture
Research, Education & Economics Information System

REIS MEASURING RESULTS

Activities | My Snapshots | State Snapshots | **Awards** | AREERA POW | Workload | Goals | Portfolios | Analyze | Definitions | Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

Program Area | Program | FDC

AREERA POW (menus as links):

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

National Summary of Selected Formula Grants
by Institution Type and Funding Source

Fiscal Year: 2008

| Institution Type Funding Source | Reported Expenditure | | | |
|---------------------------------|----------------------|----------------------|------------------------|------------------------|
| | Formula Grant | State Match | Other | Total |
| <input type="checkbox"/> 1862 | \$462,737,048 | \$907,481,079 | \$1,554,763,150 | \$2,924,981,278 |
| Hatch | \$230,607,913 | \$537,987,796 | \$974,828,503 | \$1,743,424,213 |
| Smith-Lever 3b & 3c | \$232,129,135 | \$369,493,283 | \$579,934,647 | \$1,181,557,065 |
| <input type="checkbox"/> 1890 | \$63,854,188 | \$54,437,366 | \$12,843,262 | \$130,934,816 |
| Evans-Allen | \$34,894,042 | \$27,438,432 | \$5,257,424 | \$67,589,898 |
| 1890 Extension | \$28,760,146 | \$26,998,934 | \$7,585,838 | \$63,344,918 |
| Grand Total | \$526,391,236 | \$961,918,445 | \$1,567,606,412 | \$3,055,916,093 |

Reported Expenditure

Bar Chart Legend: Formula Grant (Green), State Match (Blue)

Reports on State Accomplishments for the Hatch, Smith-Lever 3b&c, Evans-Allen, and 1890 Extension Formula Grants:

- National Summary of Selected Formula Grants by Institution Type and Funding Source
- Strategic Goal Perspective by Goal, Objective and Knowledge Area
- Geographic Perspective by Region, State and Institution Type
- Portfolio Perspective by Portfolio and Knowledge Area
- Knowledge Area Perspective by Topic, Category and Knowledge Area
- Funding Source Perspective by Funding Source and Activity Type
- Institution Report Perspective by Institution, Planned Program and Knowledge Area

Reported Outcomes on State Accomplishments for the Hatch, Smith-Lever 3b&c, Evans-Allen, and 1890 Extension Formula Grants:

- Outcomes Search by Goal
- Outcomes Search by Portfolio

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Workload:



United States Department of Agriculture
Research, Education & Economics Information System



insurance
harvest
drought

Activities
My Snapshots
State Snapshots
Awards
AREERA POW
Workload
Goals
Portfolios
Analyze
Definitions
Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall

[Settings](#) | [Back to Portal](#) | [Logout](#)

Workload

[Expand All](#)

Note:

Formula Projects: Number of CRIS formula funded projects where the NPL is listed as the Project Reviewer. Projects in this category are Animal Health, Hatch, McIntire-Stennis, RREA, Evans-Allen and Smith-Lever.

Non-Formula Projects: Number of CRIS projects that are not classified as Formula or Special where the NPL is listed as the Programmatic Contact.

Special Projects: Number of CRIS projects with the Program Area codes of "FADM", "FAES", or "SRGP" where the NPL is listed as the Project Reviewer or Programmatic Contact.

Panels: Number of Panels to which the NPL is assigned for the current fiscal year.

Panel Proposals: Number of proposals received for each Panel to review.

| Unit/Section | Name | Formula Projects | Non-Formula Projects | Special Projects | Panels | Panel Proposals |
|---|-------------------|------------------|----------------------|------------------|--------|-----------------|
| <input type="checkbox"/> Competitive Programs (CP) | Sheely, Deborah | 190 | 2046 | 35 | 93 | 2316 |
| <input type="checkbox"/> Economic and Community Systems (ECS) | Franklin, Boteler | 711 | 66 | 91 | 0 | 0 |
| <input type="checkbox"/> Families, 4-H, and Nutrition (F4HN) | Kugler, Daniel | 446 | 104 | 44 | 4 | 113 |
| <input type="checkbox"/> Natural Resources and Environment (NRE) | Kugler, Daniel | 1920 | 277 | 211 | 13 | 340 |
| <input type="checkbox"/> Plant and Animal Systems (PAS) | Broussard, Meryl | 5040 | 1020 | 656 | 31 | 762 |
| <input type="checkbox"/> Science and Education Resources Development (SERD) | Cooper, George | 29 | 1108 | 22 | 10 | 367 |

[Expand All](#)

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1.4. Portfolios and NIFA Trends Tab Changes

| Previous (LMD 3.4) | LMD 4.0 |
|--|--|
| <p>Portfolios Tab</p> <ul style="list-style-type: none">- Knowledge Area Page- NIFA Funding Sources Page- All Funding Sources Page <p>All with sections including the past 5 years of data, with row and column totals for the following Measures:</p> <ul style="list-style-type: none">o Consolidated Dollars (“Funding”)o Scientist FTEso Project count | <p>Portfolios Tab</p> <ul style="list-style-type: none">- Summary Page- Trends Page<ul style="list-style-type: none">o Expend/Collapse Optiono New Charts <p>All with sections including the past 5 years of data, with row and column totals for the following Measures:</p> <ul style="list-style-type: none">o Combined Dollarso Scientist FTEso Project Count- New:<ul style="list-style-type: none">o Formula Expenditure Dollarso Grant Obligation Dollars |
| <p>NIFA Trends</p> <ul style="list-style-type: none">- By Funding Mechanism- Goals & Objectives | <ul style="list-style-type: none">- Portfolio Trends- Goal Trends- Trends in the Filter Module- Trends in the Compare Module |

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Figure 1: Old "Portfolios" Tab Contents

USDA United States Department of Agriculture
Research, Education & Economics Information System

REEIS
Measuring Results

insurance harvest drought

Leadership Management Dashboard (Release 3.4) for Owen Dall

My Snapshots | My Projects | NIFA Trends | **Portfolios** | Agency Projects | Workload | AREERA POW | My Settings | Definitions | Contact Us | Logout

Portfolio: Markets, Trade, Policy and International Development Version: Latest Crosswalk

1.2 Support international economic development and trade capacity building
 2.1 Provide research, education, and extension to expand domestic market opportunities
 All Objectives of Selected Portfolio

Note: Information displayed in the Portfolio section is not controlled by users' settings

Knowledge Area | NIFA Funding Sources | All Funding Sources

| Knowledge Area | Funding by Fiscal Year (in Thousands) | | | | | |
|--|---------------------------------------|----------|----------|----------|----------|-----------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 2004-2008 |
| 603. Market Economics | \$14,140 | \$14,524 | \$13,995 | \$15,077 | \$18,793 | \$74,528 |
| 604. Marketing and Distribution Practices | \$14,428 | \$17,550 | \$17,372 | \$15,064 | \$19,849 | \$84,263 |
| 606. International Trade and Development Economics | \$10,038 | \$12,018 | \$10,891 | \$9,112 | \$10,103 | \$52,162 |
| 609. Economic Theory and Methods | \$3,852 | \$4,753 | \$4,375 | \$4,904 | \$6,585 | \$24,470 |
| 610. Domestic Policy Analysis | \$16,573 | \$21,866 | \$25,602 | \$19,791 | \$22,448 | \$106,280 |
| 611. Foreign Policy and Programs | \$2,090 | \$2,712 | \$12,958 | \$3,428 | \$5,199 | \$26,389 |

Note: Information displayed in the Portfolio section is not controlled by users' settings

Knowledge Area | **NIFA Funding Sources** | All Funding Sources

| NIFA Funding Source | Funding by Fiscal Year (in Thousands) | | | | | |
|--|---------------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 2004-2008 |
| Animal Health | \$2 | \$6 | \$2 | | | \$9 |
| NIFA Cooperative Agreements | | | | | \$841 | \$841 |
| Evans-Allen | \$976 | \$968 | \$1,055 | \$884 | \$841 | \$4,725 |
| Hatch Act: Regular | \$4,678 | \$4,203 | \$4,148 | \$4,631 | \$5,438 | \$23,099 |
| Hatch Act: Multi-State | \$1,115 | \$1,230 | \$1,383 | \$1,644 | \$2,895 | \$8,267 |
| McIntire-Stennis | \$537 | \$613 | \$683 | \$740 | \$543 | \$3,116 |
| NRI | \$422 | \$3,113 | \$1,229 | \$886 | \$2,915 | \$8,564 |
| Other NIFA Grants | \$3,046 | \$3,730 | \$5,268 | \$4,997 | \$6,505 | \$23,546 |
| Other Extension Grant | | | \$130 | \$2,266 | \$2,372 | \$4,768 |
| SBIR | \$692 | \$834 | \$653 | \$590 | \$463 | \$3,232 |
| SERD | | \$38 | | \$150 | \$96 | \$284 |
| Smith Level 3(b)(c) | | | | | | |
| Smith Level 3(d) | | | \$5 | \$6 | \$6 | \$18 |
| Special Research Grants | \$6,936 | \$8,909 | \$8,913 | | \$4,408 | \$29,166 |
| Portfolio: Markets, Trade, Policy and International Development | \$18,405 | \$23,645 | \$23,468 | \$16,796 | \$27,323 | \$109,636 |

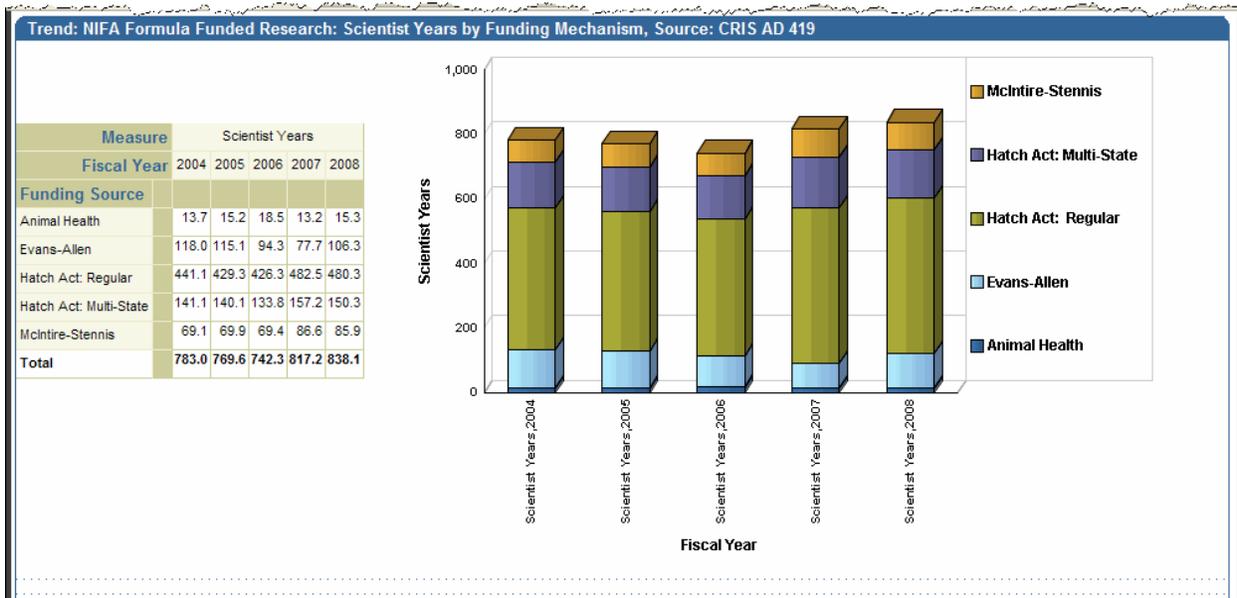
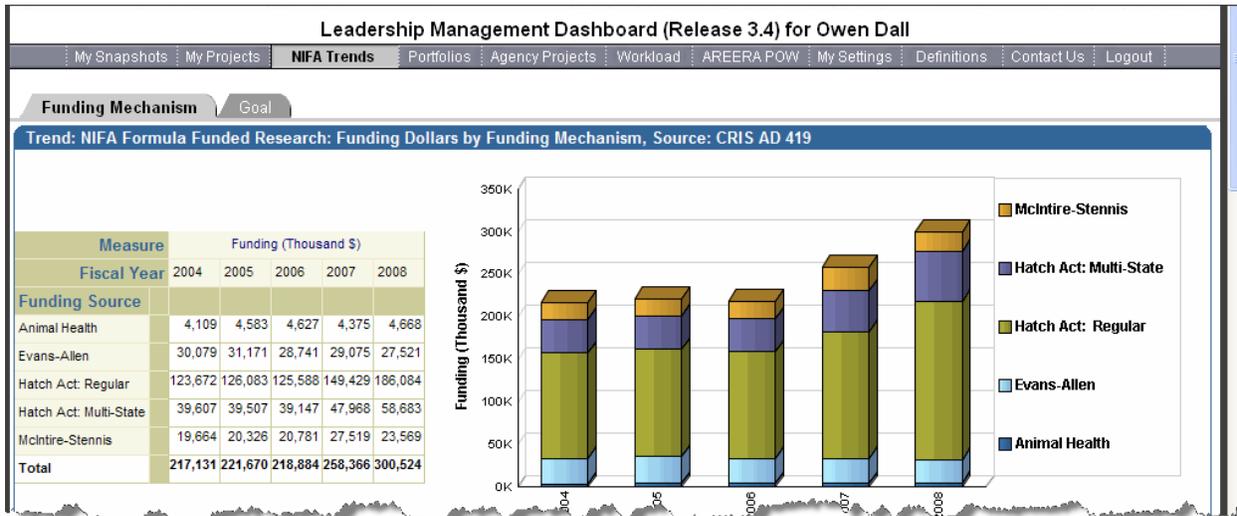
Note: Information displayed in the Portfolio section is not controlled by users' settings

Knowledge Area | NIFA Funding Sources | **All Funding Sources**

| Funding Source | Funding by Fiscal Year (in Thousands) | | | | | |
|--|---------------------------------------|-----------------|-----------------|-----------------|-----------------|------------------|
| | 2004 | 2005 | 2006 | 2007 | 2008 | 2004-2008 |
| NIFA Administered | \$18,405 | \$23,645 | \$23,468 | \$16,796 | \$27,323 | \$109,636 |
| Other USDA | \$2,814 | \$4,730 | \$8,989 | \$4,728 | \$6,627 | \$27,888 |
| Other Federal | \$3,721 | \$4,798 | \$10,275 | \$5,452 | \$3,756 | \$28,002 |
| State Funding | \$27,731 | \$29,689 | \$29,588 | \$28,776 | \$30,480 | \$146,264 |
| Other Non-Federal | \$8,450 | \$10,561 | \$12,874 | \$11,624 | \$12,792 | \$56,302 |
| Portfolio: Markets, Trade, Policy and International Development | \$61,120 | \$73,423 | \$85,195 | \$67,376 | \$80,978 | \$368,092 |

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Figure 2: Old "NIFA Trends" Tab Contents – Tab 1 of 2 – Funding Mechanism

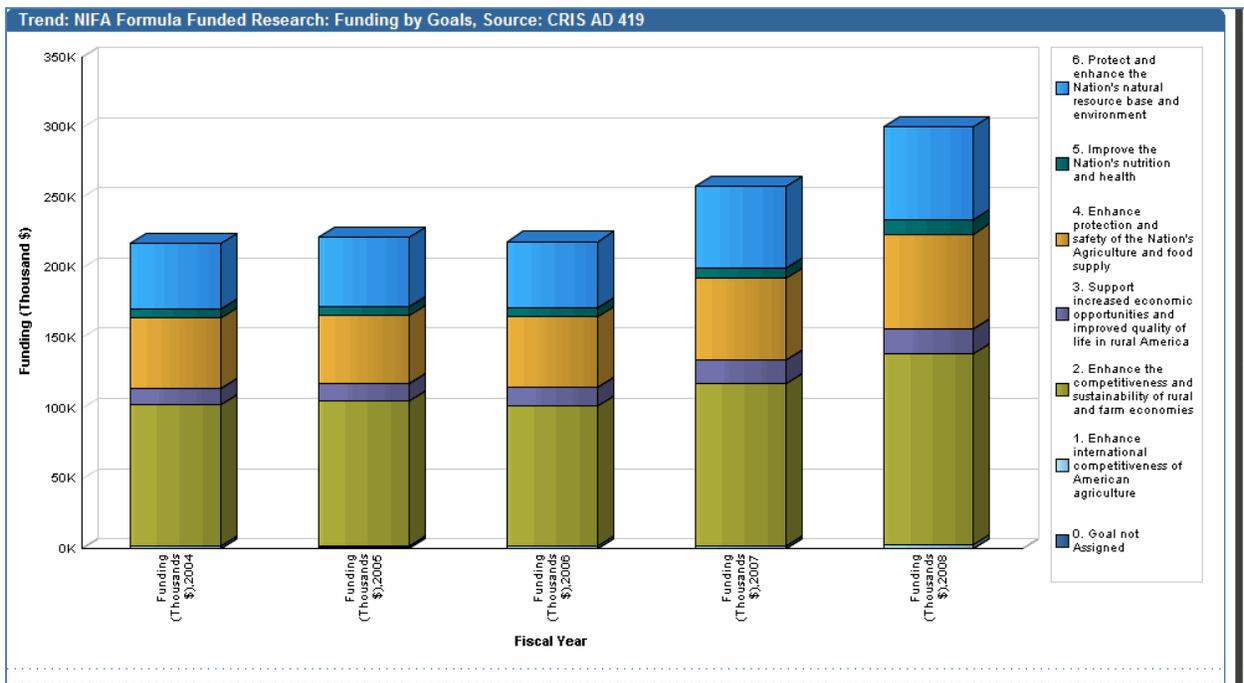


Note: Scientist Years reported above are not the total number of Scientist Years working on a project funded by NIFA, but are the total full-time equivalents calculated as the proportion of NIFA funding to all other funding for a project. For example, if a project reported a total of 2.0 Scientist Years on a project in 2007 with 20% of expenditures from Hatch funds, the number of Scientist Years reported under Hatch would be 0.4.

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Figure 3: Old "NIFA Trends" Tab Contents - Tab 2 of 2 - Goal

| Trend: NIFA Formula Funded Research: Funding by Goals and Objectives, Source: CRIS AD 419 | | Measure | Funding (Thousands \$) | | | | |
|---|--|-------------|------------------------|----------------|----------------|----------------|----------------|
| Goal | Objective | Fiscal Year | 2004 | 2005 | 2006 | 2007 | 2008 |
| 0. Goal not Assigned | 0. Unassigned | | 637 | 1,088 | 430 | 512 | 460 |
| 1. Enhance international competitiveness of American agriculture | 1.2. Support international economic development and trade capacity building | | 1,097 | 1,150 | 1,595 | 1,873 | 2,264 |
| 2. Enhance the competitiveness and sustainability of rural and farm economies | 2.1. Provide research, education, and extension to expand domestic market opportunities | | 19,294 | 19,513 | 18,804 | 22,257 | 30,772 |
| | 2.2. Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems | | 77,613 | 79,705 | 76,259 | 87,570 | 99,053 |
| | 2.3. Provide risk management and financial tools farmers and ranchers | | 4,183 | 4,158 | 4,946 | 5,741 | 5,997 |
| 3. Support increased economic opportunities and improved quality of life in rural America | 3.1. Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth | | 7,899 | 8,029 | 8,332 | 11,331 | 12,925 |
| | 3.2. Provide research, education, and extension to improve the quality of life in rural areas | | 3,919 | 3,761 | 4,545 | 5,017 | 5,135 |
| 4. Enhance protection and safety of the Nation's Agriculture and food supply | 4.1. Reduce the incidence of food-borne illnesses and contaminants through research, education, and extension | | 5,954 | 5,352 | 5,027 | 6,148 | 7,338 |
| | 4.2. Develop and deliver research, education, and extension to reduce the number and severity of agricultural pest and disease outbreaks | | 44,438 | 43,479 | 45,220 | 52,052 | 60,227 |
| 5. Improve the Nation's nutrition and health | 5.1. Ensure access to nutritious food | | 4,316 | 4,424 | 4,540 | 4,594 | 7,218 |
| | 5.2. Promote healthier eating habits and lifestyles | | 1,991 | 2,003 | 1,925 | 2,591 | 3,306 |
| 6. Protect and enhance the Nation's natural resource base and environment | 6.1. Ensure clean, abundant water and clean, healthy air | | 14,327 | 14,568 | 14,279 | 18,064 | 22,349 |
| | 6.2. Enhance soil quality to maintain productive working lands | | 12,492 | 14,021 | 12,861 | 15,678 | 18,186 |
| | 6.3. Protect, enhance, and manage forests and rangelands | | 15,454 | 16,319 | 16,036 | 20,822 | 20,605 |
| | 6.4. Protect and enhance wildlife habitat to benefit desired, at-risk, and declining species | | 3,718 | 4,100 | 4,084 | 4,117 | 4,690 |
| Total | | | 217,131 | 221,670 | 218,884 | 258,366 | 300,524 |

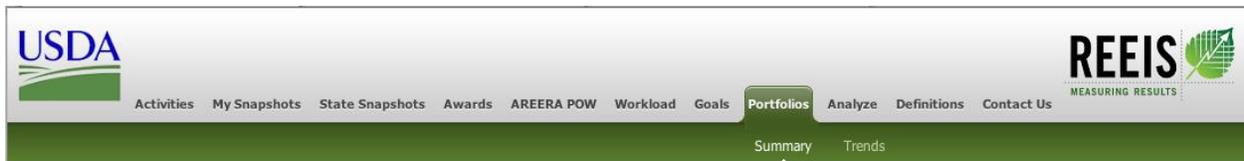


LMD 4.0 User Guide

New Goals Tab:



New Portfolios Tab:



New Analyze Tab:



Definitions:

The screenshot shows the "Definitions" page in the LMD 4.0 interface. At the top, it features the USDA logo and the text "United States Department of Agriculture Research, Education & Economics Information System". On the right is the REEIS logo. Below the header is a banner with images and the words "insurance", "harvest", and "drought". The navigation menu includes: Activities, My Snapshots, State Snapshots, Awards, AREERA POW, Workload, Goals, Portfolios, Analyze, Definitions (highlighted), and Contact Us. The page title is "Leadership Management Dashboard (Release 4.0) for Owen Dall" with links for "Settings", "Back to Portal", and "Logout".

How to Report Funding => Expenditure vs. Award

| For Project Types | Funding Data Reflects |
|--|--------------------------------|
| <ul style="list-style-type: none">USDA ContractsUSDA Cooperative AgreementsUSDA Grants | Expenditure Amount from AD-418 |

NON-HIFA Grants

Contact Us:

LMD 4.0 User Guide

USDA United States Department of Agriculture
Research, Education & Economics Information System

REEIS
MEASURING RESULTS

insurance harvest drought

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

The National Institute of Food and Agriculture (NIFA) provides a Help Desk Monday - Friday, 8:30 a.m. - 4:30 p.m. (US Eastern Time Zone). Help Desk representatives are available to answer general questions about the Leadership Management Dashboard (LMD), troubleshoot and solve problems, and assist in effectively using the System.

Support is available via:
telephone: 202-690-2910
email: servicedesk@nifa.usda.gov

Please send comments and suggestions to:
email: LMDFeedback@nifa.usda.gov

Settings:

USDA United States Department of Agriculture
Research, Education & Economics Information System

REEIS
MEASURING RESULTS

insurance harvest drought

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall [Settings](#) | [Back to Portal](#) | [Logout](#)

Settings

NPL Proxy Program Area Program FDC Knowledge Area Subject **Field of Science** State

“Logout” results in the display of the NIFA Applications Portal logout screen:

Log in Sign up

NIFA Applications Portal

You have been logged out of your NIFA Portal session as well as all applications managed by the NIFA Portal.
[Log in.](#)

2. New Functionality

2.1. LMD 4.0 Goals Tab

The Goals tab has two tabs, one for a snapshot “Summary” and the other for “Trends.”

Note: In this section we will focus on the Trends tab functionality, which also applies to Portfolios. In the Portfolios section we will document the “Summary” function, which is also available for Goals.

The LMD 4.0 "Goals Trends" Page – Part 1 of 2

| Goals / Objectives / Knowledge Areas | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | Trend graph |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| 0: (Goal not assigned) | \$532,628 | \$748,597 | \$636,758 | \$1,087,886 | \$430,403 | \$512,064 | \$459,842 | \$105,160 | |
| 1: Enhance international competitiveness of American agriculture | \$1,574,188 | \$1,188,535 | \$1,096,554 | \$1,150,436 | \$1,595,327 | \$1,872,706 | \$2,263,516 | \$1,602,443 | |
| 2: Enhance the competitiveness and sustainability of rural and farm economies | \$103,016,440 | \$100,985,106 | \$101,089,784 | \$103,376,053 | \$100,009,049 | \$115,568,298 | \$135,822,407 | \$110,621,825 | |
| 3: Support increased economic opportunities and improved quality of life in rural America | \$11,959,924 | \$11,415,242 | \$11,617,741 | \$11,789,896 | \$12,876,683 | \$16,347,621 | \$18,059,413 | \$15,952,626 | |
| 4: Enhance protection and safety of the Nation's Agriculture and food supply | \$51,846,297 | \$51,095,818 | \$50,391,920 | \$48,830,647 | \$50,247,401 | \$58,199,448 | \$67,565,542 | \$54,624,669 | |
| 5: Improve the Nation's nutrition and health | \$6,429,165 | \$6,307,005 | \$6,306,622 | \$6,426,962 | \$6,464,087 | \$7,185,308 | \$10,524,076 | \$9,434,040 | |
| 6: Protect and enhance the Nation's natural resource base and environment | \$46,990,816 | \$46,236,100 | \$45,991,209 | \$49,008,291 | \$47,260,641 | \$58,680,693 | \$65,829,696 | \$59,262,483 | |
| Total | \$222,349,459 | \$217,976,404 | \$217,130,589 | \$221,670,172 | \$218,883,591 | \$258,366,139 | \$300,524,492 | \$251,603,246 | |

Note: The “Export” command exports data which is expanded to the lowest level, i.e. Goals -> Objectives

LMD 4.0 User Guide

-> Knowledge Areas. Clicking the "Show Results" button resets the report to show data at the highest level

Figure 4: LMD 4.0 "Goals Trends" Page – Part 2 of 2

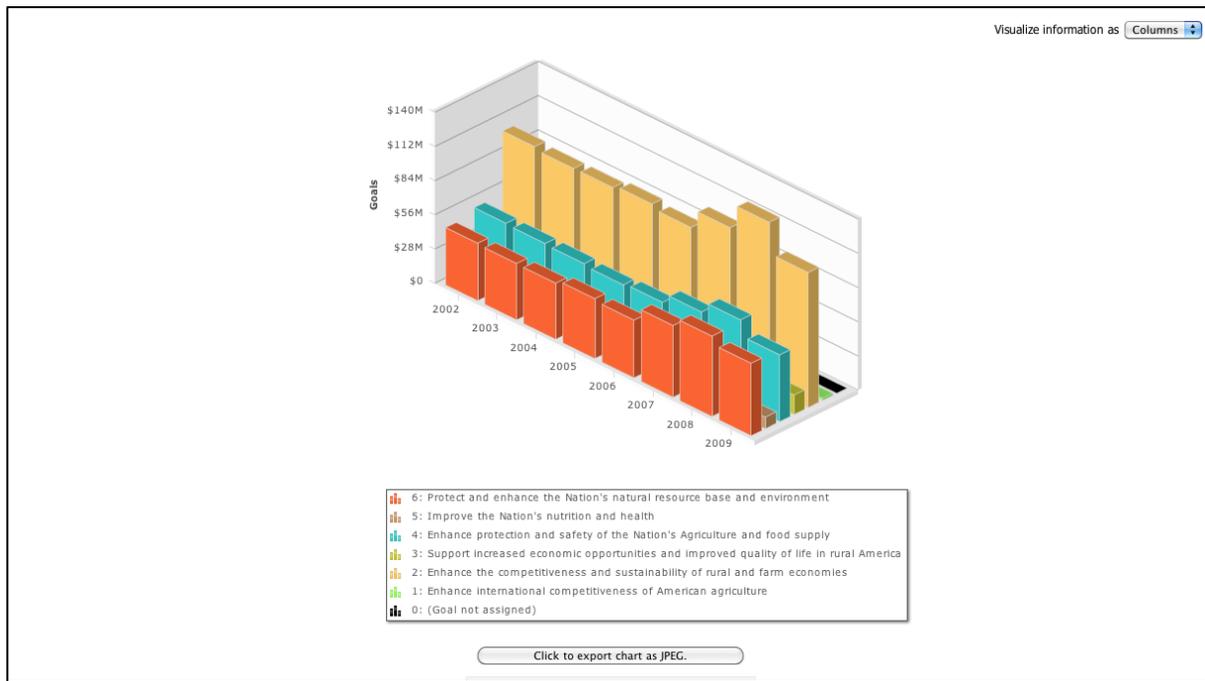
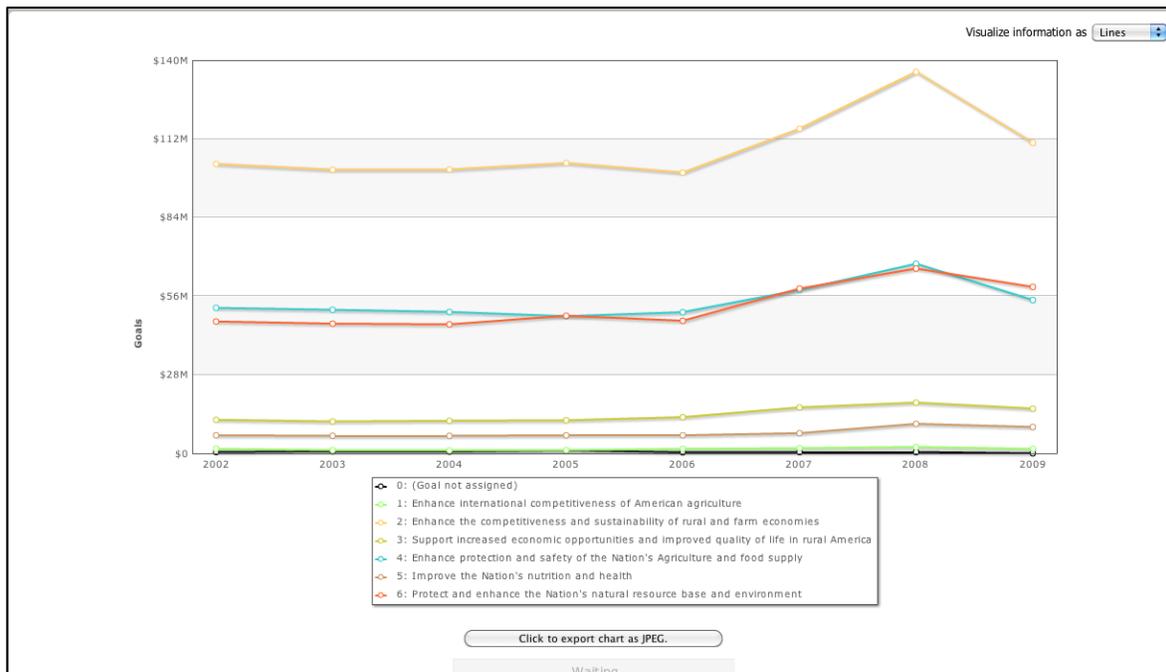


Figure 5: The user can switch from Column to Line views

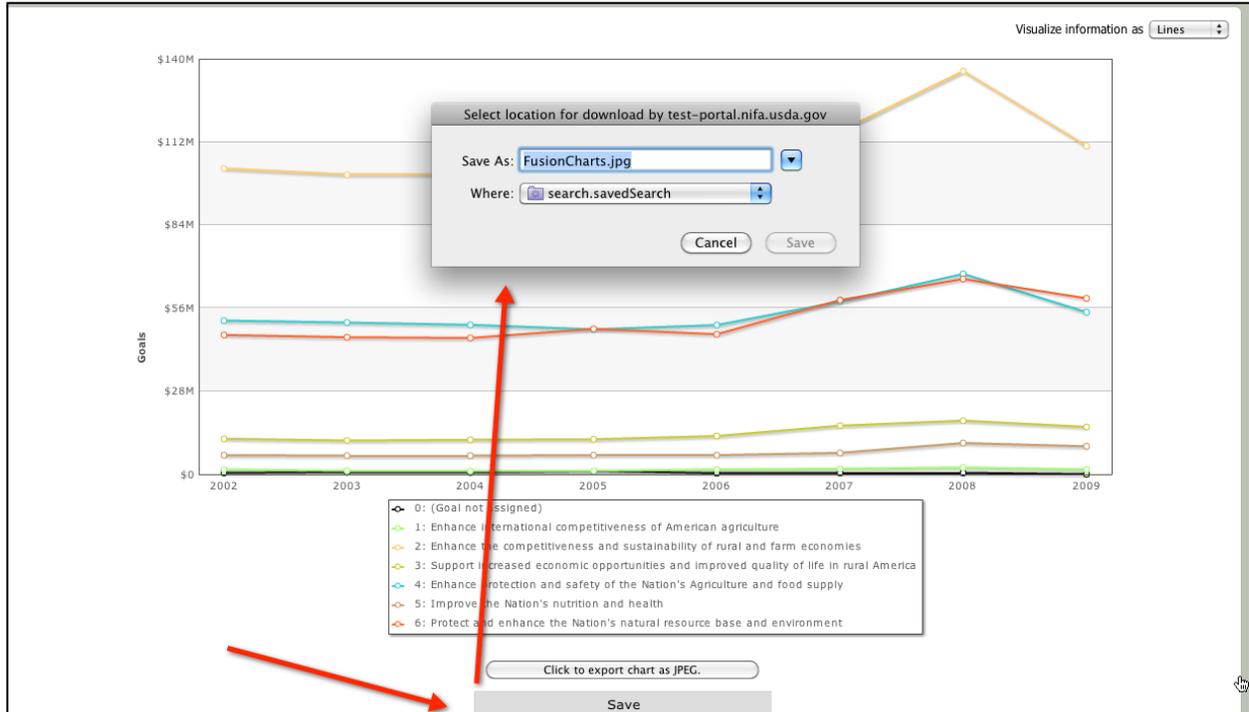


LMD 4.0 User Guide

Note: "Click to export chart as JPEG" is a two step process.

Step 1: Click the button to export cart as JPEG (once capturing is complete Save will button will become available just beneath Export button.

Step 2: Click Save to save the file with .jpg extension to your local file system.



LMD 4.0 User Guide

2.2. LMD 4.0 Portfolios Tab

The Portfolios tab infrastructure (Summary and Trends) is identical to that of the Goals Tab, but uses a different rollup Hierarchy. In this section we will focus on the Summary tab.

Figure 6: LMD 4.0 "Portfolio Summary" Page – Part 1 of 4

Note: the "Delete page" option will only be available to LMD Application Administrators and for query pages created and saved by

LMD 4.0 User Guide

Figure 7: "Portfolio Summary" Page - Part 2 of 4

| Portfolios / Knowledge Areas | NIFA Funding Source | Other Funding Source | All Funding Sources | Percentage of NIFA Total | NIFA percentage of each Total |
|---|----------------------|------------------------|------------------------|--------------------------|-------------------------------|
| 0: (Portfolio not assigned) | \$1,060,337 | \$67,378 | \$1,127,715 | 0.12% | 94.03% |
| 1: Markets, Trade, Policy and International Development | \$24,027,815 | \$50,797,541 | \$74,825,356 | 2.67% | 32.11% |
| 2: Processing, Engineering and Technology for Food and Bio Products | \$85,763,319 | \$163,410,819 | \$249,174,138 | 9.54% | 34.42% |
| 3: Animal Systems | \$125,676,867 | \$553,859,317 | \$679,536,184 | 13.98% | 18.49% |
| 4: Education | \$54,731,738 | \$12,458,400 | \$67,190,138 | 6.09% | 81.46% |
| 5: Farm Management for Sustainability | \$88,584,719 | \$56,497,910 | \$145,082,629 | 9.86% | 61.06% |
| 6: Quality of Life in Rural Areas | \$68,495,242 | \$51,750,339 | \$120,245,581 | 7.62% | 56.96% |
| 7: Food Safety | \$30,583,069 | \$55,056,877 | \$85,639,946 | 3.40% | 35.71% |
| 8: Plant Systems | \$238,098,251 | \$738,266,735 | \$976,364,986 | 26.49% | 24.39% |
| 9: Nutrition and Healthier Food Choices | \$41,575,647 | \$76,156,566 | \$117,732,213 | 4.63% | 35.31% |
| 10: Environment and Natural Resources | \$137,151,249 | \$481,698,270 | \$618,849,518 | 15.26% | 22.16% |
| 11: Supports All Portfolios | \$2,929,843 | \$12,295,230 | \$15,225,073 | 0.33% | 19.24% |
| Total | \$898,678,095 | \$2,252,315,381 | \$3,150,993,476 | 100.00% | 28.52% |

Drill down into a Knowledge Area associated with a Portfolio:

| Portfolios / Knowledge Areas | NIFA Funding Source | Other Funding Source | All Funding Sources | Percentage of NIFA Total | NIFA percentage of each Total |
|---|---------------------|----------------------|---------------------|--------------------------|-------------------------------|
| 0: (Portfolio not assigned) | \$1,060,337 | \$67,378 | \$1,127,715 | 0.12% | 94.03% |
| 1: Markets, Trade, Policy and International Development | \$24,027,815 | \$50,797,541 | \$74,825,356 | 2.67% | 32.11% |
| 2: Processing, Engineering and Technology for Food and Bio Products | \$85,763,319 | \$163,410,819 | \$249,174,138 | 9.54% | 34.42% |
| 3: Animal Systems | \$125,676,867 | \$553,859,317 | \$679,536,184 | 13.98% | 18.49% |
| 301: Reproductive Performance Of Animals | \$15,459,826 | \$51,277,169 | \$66,736,995 | 1.72% | 23.17% |
| 302: Nutrient Utilization In Animals | \$14,863,915 | \$74,649,658 | \$89,513,573 | 1.65% | 16.61% |
| 303: Genetic Improvement Of Animals | \$10,432,724 | \$34,380,029 | \$44,812,753 | 1.16% | 23.28% |
| 304: Animal Genome | \$11,661,400 | \$36,313,501 | \$47,974,900 | 1.30% | 24.31% |
| 305: Animal Physiological Processes | \$8,546,428 | \$49,140,330 | \$57,686,758 | 0.95% | 14.82% |
| 306: Environmental Stress In Animals | \$1,759,457 | \$10,043,811 | \$11,803,268 | 0.20% | 14.91% |
| 307: Animal Production Management Systems | \$12,366,222 | \$31,222,202 | \$43,588,424 | 1.38% | 28.37% |
| 308: Improved Animal Products (Before Harvest) | \$2,924,356 | \$8,085,877 | \$11,010,233 | 0.33% | 26.56% |
| 311: Animal Diseases | \$31,630,953 | \$173,390,021 | \$205,020,974 | 3.52% | 15.43% |
| 312: External Parasites And Pests Of Animals | \$2,766,779 | \$6,297,479 | \$9,064,259 | 0.31% | 30.52% |
| 313: Internal Parasites In Animals | \$869,431 | \$7,118,253 | \$7,987,684 | 0.10% | 10.88% |
| 314: Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, And Other Hazards Affecting Animals | \$924,763 | \$15,513,596 | \$16,438,359 | 0.10% | 5.63% |

LMD 4.0 User Guide

Figure 8: Portfolio Summary Page - Part 3 of 4

This graphic illustrates the relative funding by NIFA Funding Sources Across Portfolios:

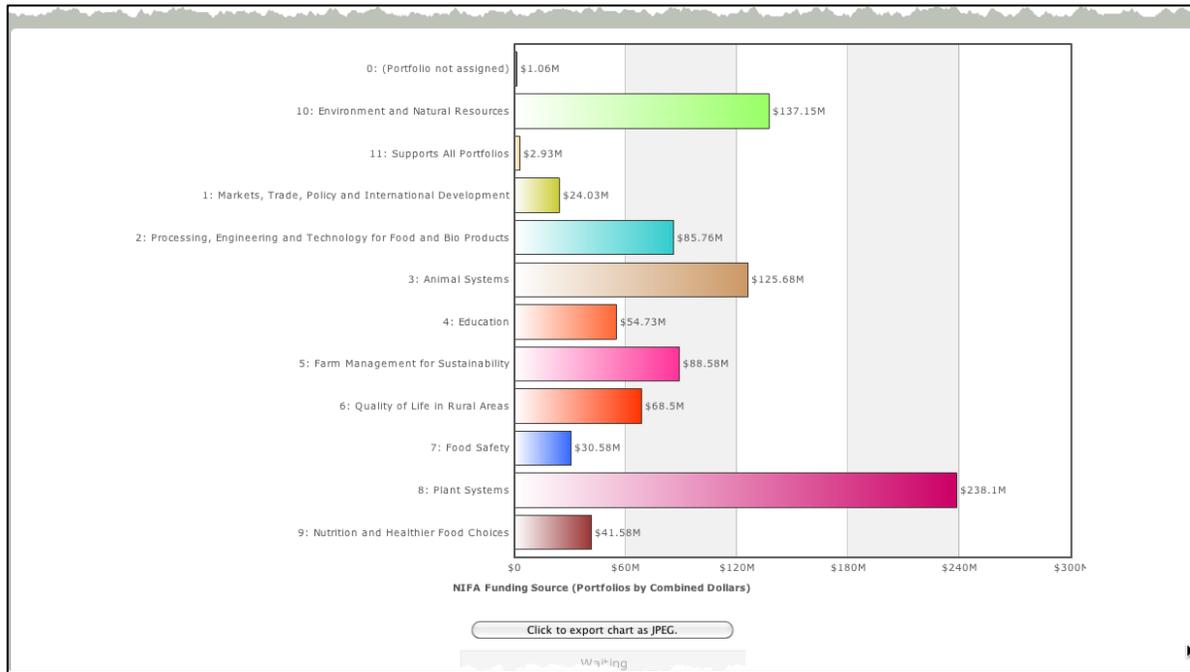
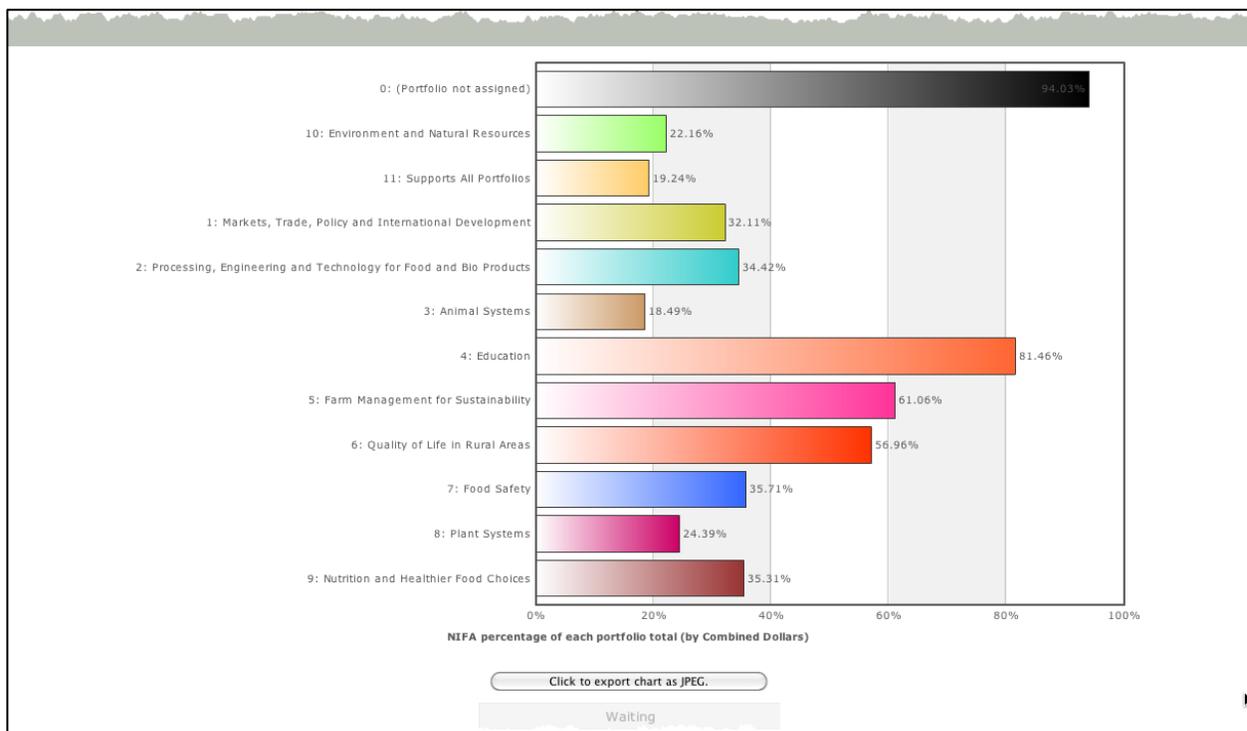


Figure 9: "Portfolio Summary" Page – Part 4 of 4

This graphic illustrates the relative funding by NIFA vs. Other Funding Sources:



2.3. LMD 4.0 Analyze Tab

The Analyze tab is completely new in LMD 4.0. There are three sub-tabs within Analyze:

- Compare
- Filter
- Rank

NOTE: See Section 2.8 “Hierarchy (Rollup) Navigation for Dimensions and Filters” for more details about how to navigate through and select values from the dimensions available.

Like all pages in LMD 4.0, a “Default” page created by the Portal Administrator for each of the Compare, Filter, and Rank pages. These are provided to you as example “templates” from which to create as many custom query pages as you like

LMD 4.0 User Guide

2.3.1. The "Compare" Page

The following default "Compare" page comes pre-defined in LMD 4.0:

Leadership Management Dashboard (Release 4.0) for Owen Dall Settings | Back to Portal | Log Out

Trend of NIFA Funded Formula v/s Non-Formula Combined Dollars for NIFA Sponsored Projects

Data Source: Current Research Information System (CRIS) Search Saved Pages Default Page

This page illustrates the "Compare" feature available in LMD. Compare any two dimensions using any of the available measures, over a time frame of interest. In this case, NIFA Formula Expenditure Dollars are compared to NIFA Grant Obligation Dollars by using the "Combined Dollars" measure.

Keywords: NIFA, Trends, Formula Expenditures, Grant Obligations

Years: 2002 To 2009

Measure type: Combined Dollars

Compare: Funding Source > NIFA Only

This: Formula

With: Non-Formula

Filters: Choose a filter...

Sponsoring Agency: NIFA

Create New Page Save as New Page



Note that this default example compares NIFA Formula vs. Non-Formula funding from 2002-2009.

LMD 4.0 User Guide

If you click on “Create New Page” you will see a definition screen similar to the following:

The screenshot shows the 'Trend Comparison - New Page' interface. At the top, there is a navigation bar with the USDA logo on the left and the REEIS logo on the right. The main navigation menu includes 'Activities', 'My Snapshots', 'State Snapshots', 'Awards', 'AREERA POW', 'Workload', 'Goals', 'Portfolios', 'Analyze', 'Definitions', and 'Contact Us'. Below this, there are sub-menus for 'Compare', 'Filter', and 'Rank'. The page title is 'Leadership Management Dashboard (Release 4.0) for Owen Dall'. The form itself has a 'Search Saved Pages' button. The 'Years' field is set to '2002' and '2009'. The 'Measure type' is 'Project Count'. The 'Compare' field is 'Choose a dimension...'. The 'Filters' field is 'Choose a filter...'. A 'Show Results' button is at the bottom.

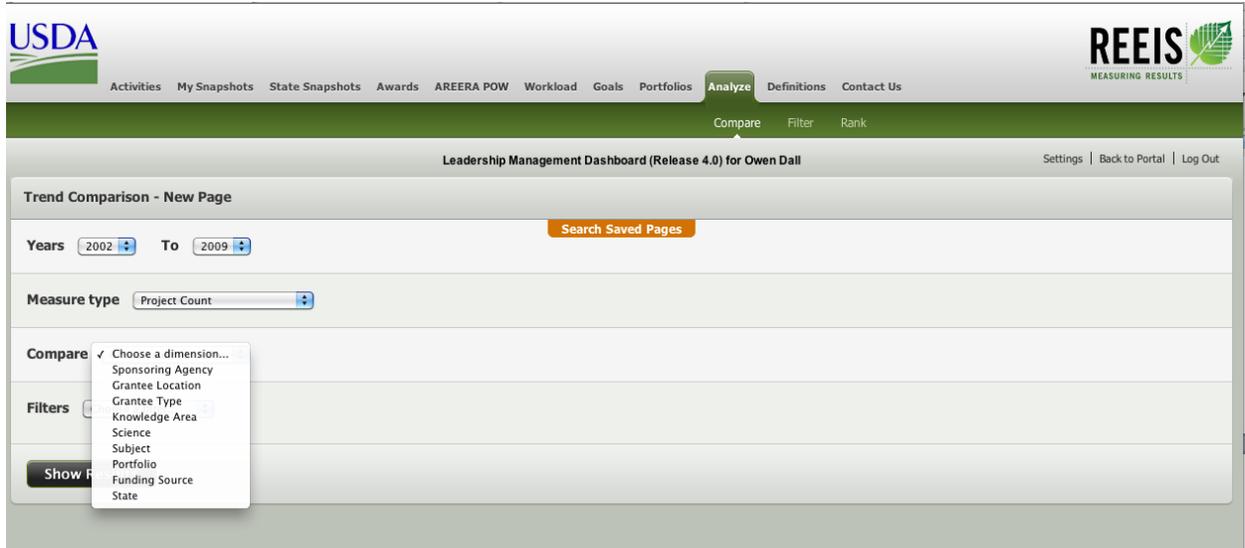
Years. By default the years available within the data mart are displayed next to the “Years” prompt. The user can select a start and end year to include in the comparison:

Measure Type. Select one measure from the list available as the metric for comparison. Currently the measures available are:

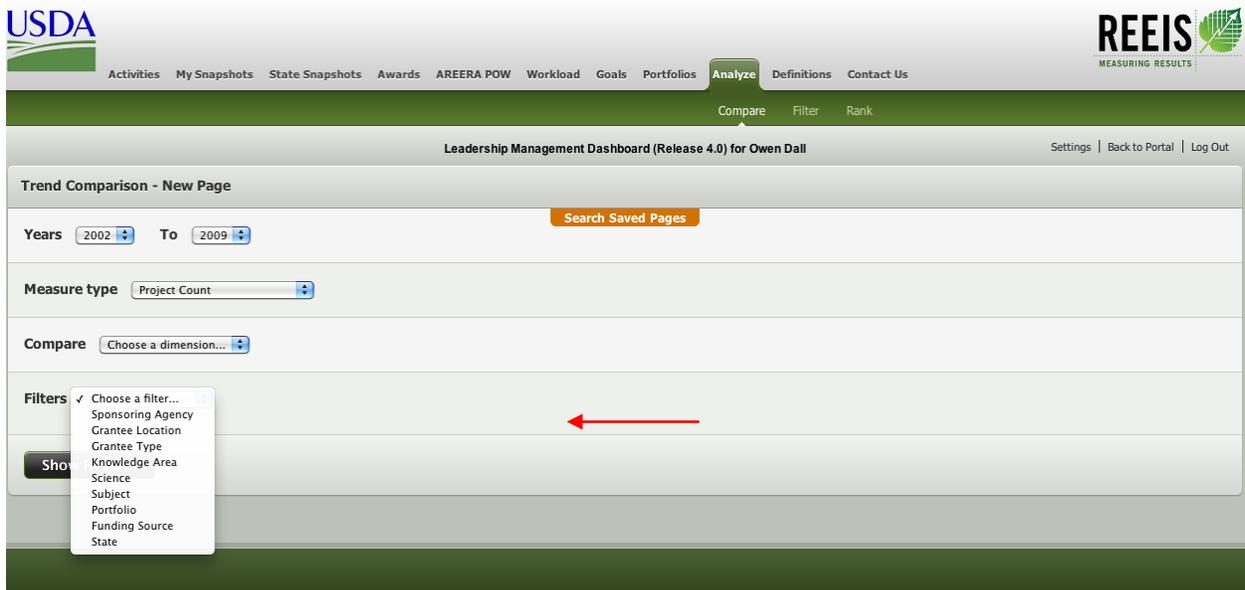
This screenshot is similar to the previous one, but the 'Measure type' dropdown menu is open, showing a list of available measures: 'Project Count', 'Grant Obligation Dollars', 'Formula Expenditure Dollars', 'Combined Dollars', and 'FTE'. The 'Compare' field is partially visible as 'Ch...'. The 'Show Results' button is at the bottom.

Compare. Choose one of the many dimensions available. All of the available dimensions and rollups of LMD 4.0 are available. (See Section 2.8 for details on how to navigate the dimension hierarchies.)

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Filter. Any combination of any number of filters can be used for the comparison. The same list of dimensions is available for filtering:



Results. Clicking on the “Show Results” button will execute the query and return a table, sparklines, and calculations for “Absolute” and “Percentage” difference calculations.

The following example compares the states of California and Texas, using the measure of Scientist FTEs supported by NIFA Formula FundingL

LMD 4.0 User Guide



Trend Comparison - New Page

Years To [Search Saved Pages](#)

Measure type

Compare

This

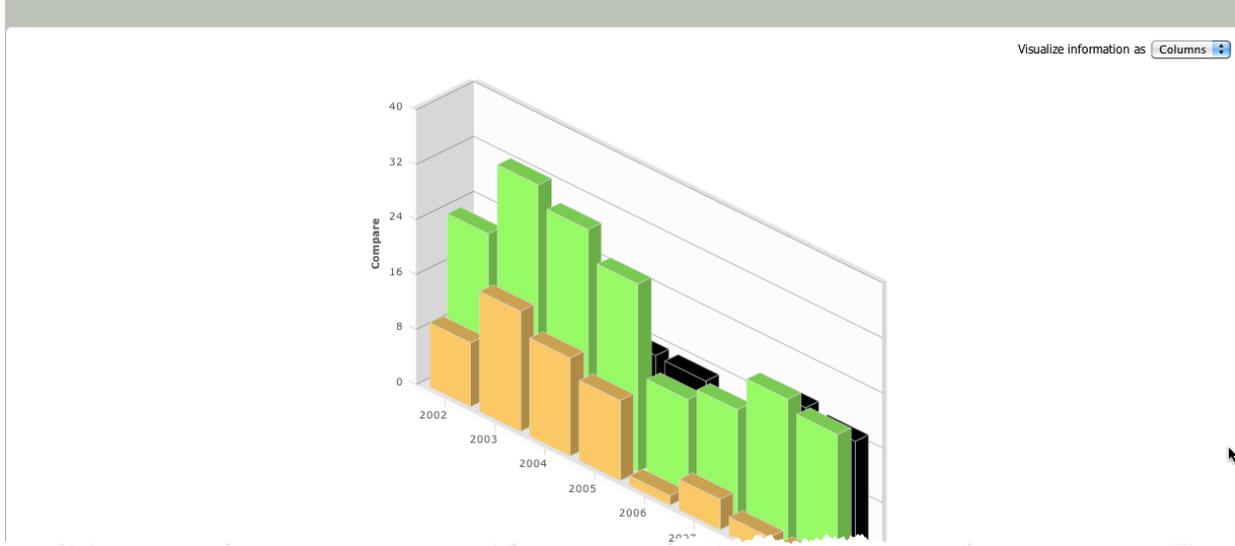
With

Filters > >

Sponsoring Agency: NIFA

Funding Source NIFA Only: Formula

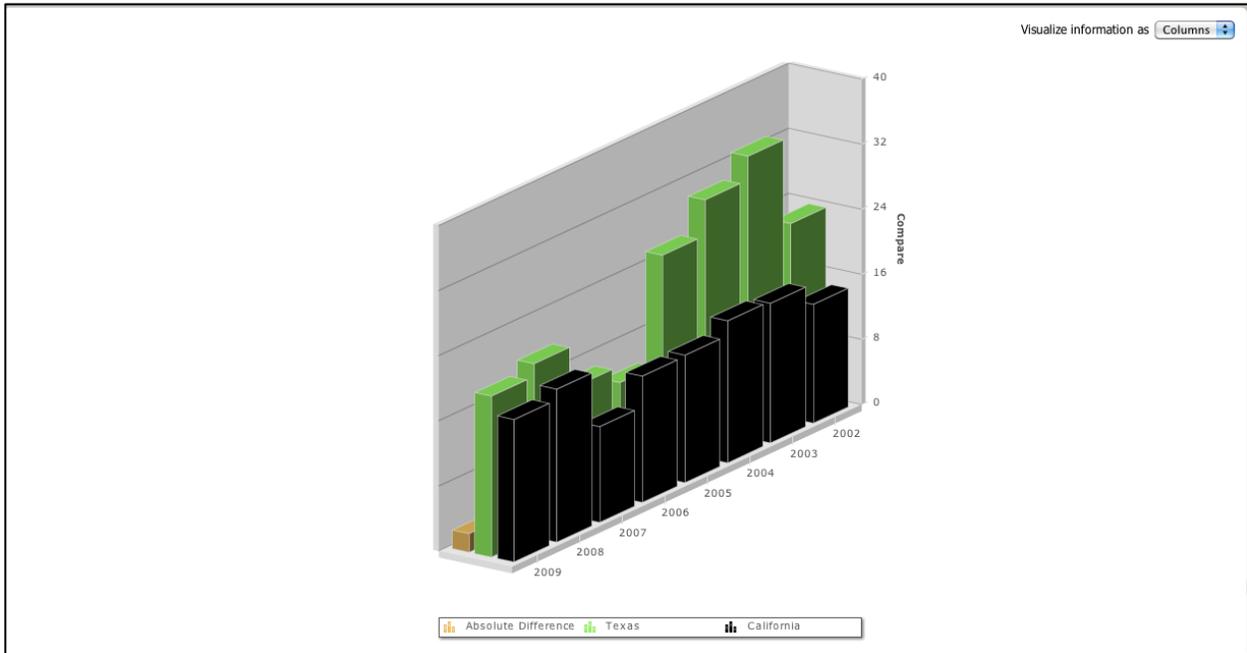
| State ▼ | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | Trend graph |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| California | 14.58 | 17.16 | 17.45 | 15.65 | 15.52 | 11.75 | 18.80 | 17.50 | |
| Texas | 23.91 | 34.63 | 31.70 | 27.34 | 14.13 | 16.18 | 21.32 | 19.78 | |
| Absolute Difference | 9.33 | 17.48 | 14.25 | 11.68 | 1.39 | 4.43 | 2.52 | 2.28 | |
| Percentage Difference | 64% | 102% | 82% | 75% | 10% | 38% | 13% | 13% | |



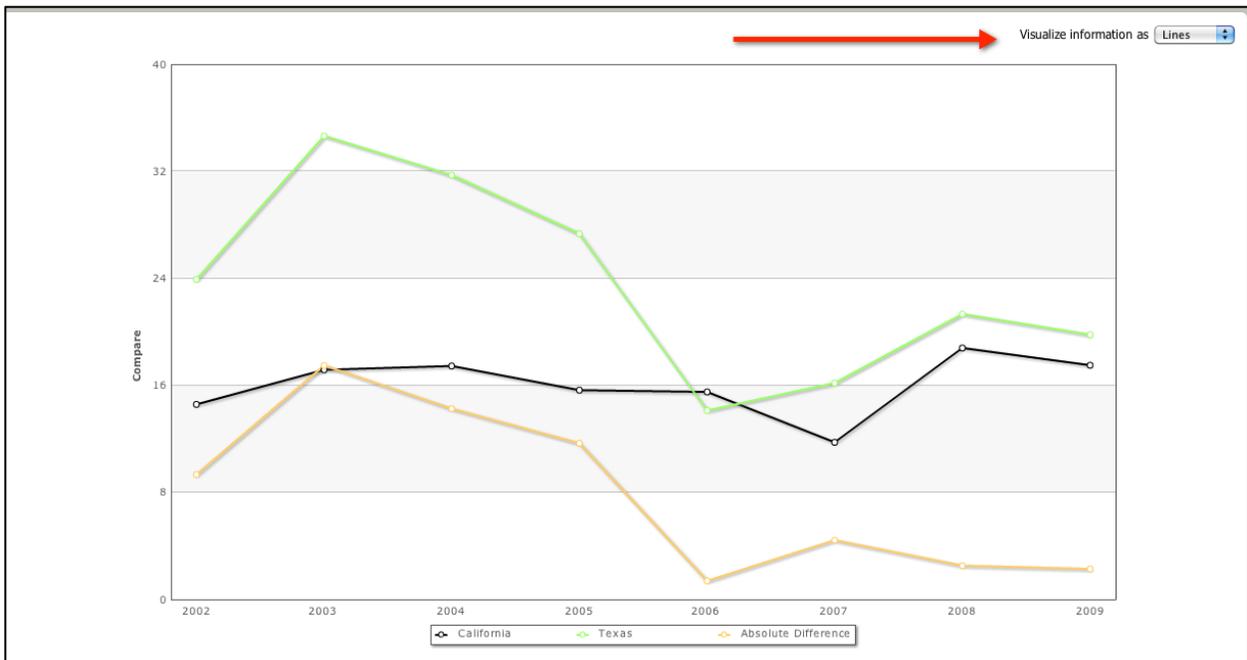
The default graphic is a 3-D Column (bar) chart representation of the two items in the comparison, as well as the absolute difference between them. The user can select and rotate this chart as needed for viewing details.

LMD 4.0 User Guide

The 3-D Chart can be rotating using the mouse see the inner bars:



Select on option from the dropdown list to view alternative graph types:



As always with LMD charts, the user can export a chart as a JPEG graphic (.jpg) file that can easily be imported into any Word, PowerPoint, or Excel document.

LMD 4.0 User Guide

2.3.2. The “Filter” Page

The Filter page provides the user the ability to filter/focus on a subset of data in the data mart by choosing:

1. Measure Type
2. Dimension for Rows
3. A Dimension for Columns
4. Filters

The default Filter page looks as follows:

The screenshot shows the LMD 4.0 interface. At the top left is the USDA logo. The top navigation bar includes: Activities, My Snapshots, State Snapshots, Awards, AREERA POW, Workload, Goals, Portfolios, Analyze (highlighted), Definitions, and Contact Us. Below this is a secondary navigation bar with Compare, Filter (highlighted), and Rank. The main header reads "Leadership Management Dashboard (Release 4.0) for Owen Dall" with links for Settings, Back to Portal, and Log Out. The main content area is titled "Trend of NIFA Sponsored Projects by State". It includes a "Data Source: Current Research Information System (CRIS)" and a "Search Saved Pages" button. A text block explains the "Filter" feature, noting that the measure is Project Count and the filter is NIFA. Below this are three dropdown menus: "Measure type" (set to Project Count), "Dimension for Rows" (set to State), and "Dimension for Columns" (set to Year). A "Filters" dropdown is set to "Sponsoring Agency: NIFA". At the bottom are "Create New Page" and "Save as New Page" buttons.

When you select “Create New Page”, the page is refreshed as follows:

The screenshot shows the LMD 4.0 interface after selecting "Create New Page". The top navigation and secondary navigation bars are identical to the previous screenshot. The main header remains "Leadership Management Dashboard (Release 4.0) for Owen Dall". The main content area is titled "Filter - New Page". It includes a "Search Saved Pages" button. Below this are three dropdown menus: "Measure type" (set to Project Count), "Dimension for Rows" (set to Choose a dimension...), and "Dimension for Columns" (set to Choose a dimension...). A "Filters" dropdown is set to "Choose a filter...". At the bottom is a "Show Results" button.

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As with the Compare page, select you options and press the “Show Results” button:

USDA REEIS MEASURING RESULTS

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Compare Filter Rank

Leadership Management Dashboard (Release 4.0) for Owen Dall Settings | Back to Portal | Log Out

Filter - New Page

Measure type **Combined Dollars** [Search Saved Pages](#)

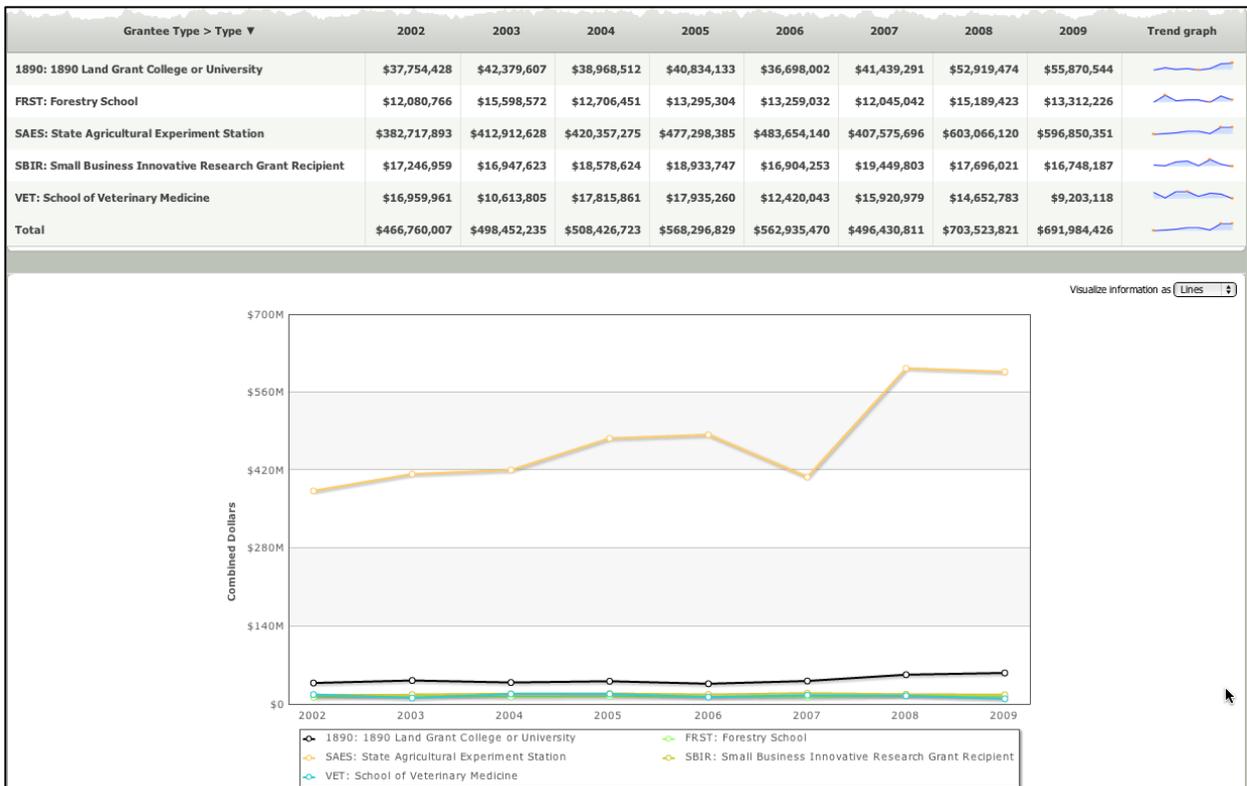
Dimension for Rows **Grantee Type** > **Type**

Dimension for Columns **Year**

Filters **Grantee Type** > **Type**

- Sponsoring Agency: NIFA
- Grantee Type Type: 1890: 1890 Land Grant College or University
- Grantee Type Type: FRST: Forestry School
- Grantee Type Type: SBIR: Small Business Innovative Research Grant Recipient
- Grantee Type Type: VET: School of Veterinary Medicine
- Funding Source Types: NIFA
- Grantee Type Type: SAES: State Agricultural Experiment Station

[Show Results](#) [Save This Page](#)



LMD 4.0 User Guide

2.3.3. The “Rank” Page

The “Rank” page is designed to provide a quick method of comparing items in any dimension by the measure of choice. There are only three options for this page:

1. Measure Type
2. Dimension for Rows
3. Filters

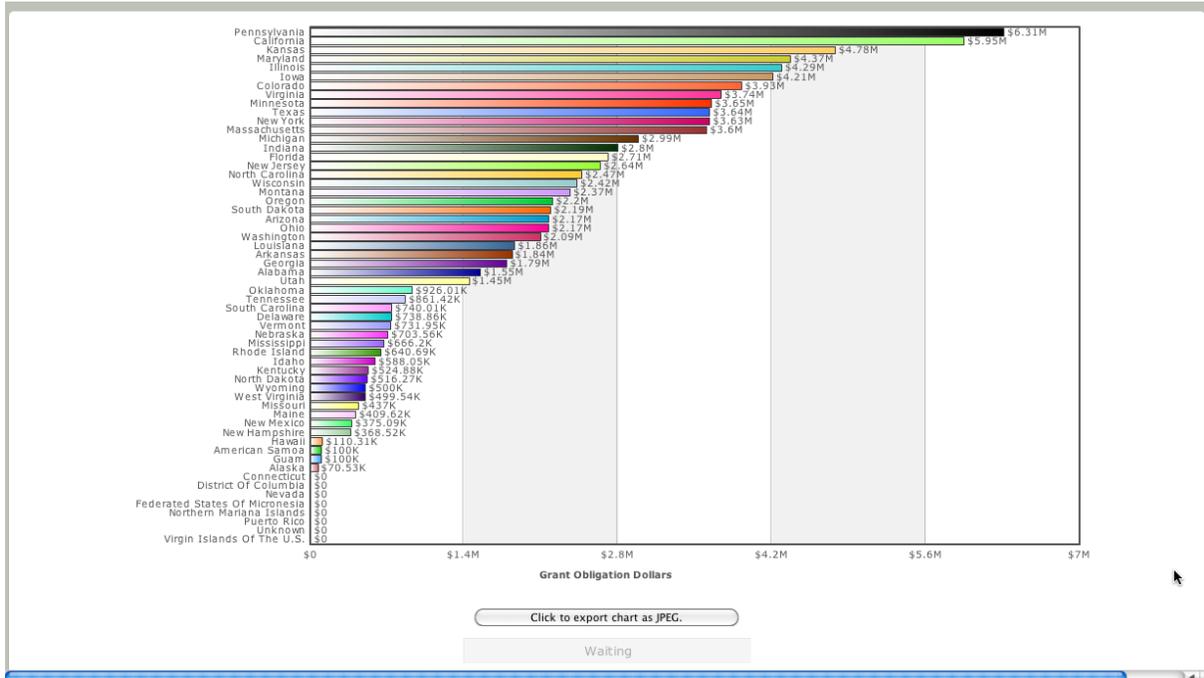
The default Rank page appears as follows:

The screenshot shows the REEIS LMD 4.0 Rank page. The page title is "FY 2009 Grant Obligation Dollars for National Research Initiative (NRI) Competitive Grants by State". The data source is "Current Research Information System (CRIS)". The page includes a search bar for saved pages and a "Default Page" button. The filters are set to "Measure type: Grant Obligation Dollars", "Dimension for Rows: State", and "Filters: Funding Source: National Research Initiative (NRI) Competitive Grants, Year: 2009". The table below shows the grant obligation dollars for each state in 2009.

| State | Grant Obligation Dollars |
|----------------|--------------------------|
| Pennsylvania | \$6,309,032 |
| California | \$5,949,922 |
| Kansas | \$4,776,070 |
| Maryland | \$4,366,232 |
| Illinois | \$4,287,554 |
| Iowa | \$4,210,046 |
| Colorado | \$3,928,728 |
| Virginia | \$3,738,174 |
| Minnesota | \$3,652,447 |
| Texas | \$3,635,520 |
| New York | \$3,630,861 |
| Massachusetts | \$3,603,193 |
| Michigan | \$2,986,663 |
| Indiana | \$2,801,622 |
| Florida | \$2,708,671 |
| New Jersey | \$2,635,248 |
| North Carolina | \$2,467,076 |
| Wisconsin | \$2,426,578 |

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And a chart for visualizing the ranking:



As always, hit the “Create New Page” button to create your own ranking definition:

The screenshot shows the REEIS Leadership Management Dashboard (Release 4.0) for Owen Dall. The 'Rank' tab is active, and the 'Rank - New Page' configuration window is open. The 'Measure type' is set to 'Project Count'. There is a 'Search Saved Pages' button. The 'Dimension for Rows' is set to 'Choose a dimension...'. The 'Filters' section is empty. A 'Show Results' button is at the bottom.

LMD 4.0 User Guide

2.4. Drill to Detail

2.4.1. Click on a cell in the results table to drill to the Project List

Regardless of which measure has been selected in any of the Goals, Portfolios, or Analyze pages, values in the resulting cells of any page become hot links to drill to a project listing page:

USDA REEIS MEASURING RESULTS

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Summary Trends

Leadership Management Dashboard (Release 4.0) for Owen Dall Settings | Back to Portal | Log Out

Portfolios - New Summary Page

Filters Year > Search Saved Pages

Sponsoring Agency: NIFA Year: 2009

Measure type Project Count

Show Results Save This Page

| Portfolios / Knowledge Areas | NIFA Funding Source | Other Funding Source | All Funding Sources | Percentage of NIFA Total | NIFA percentage of each Total |
|---|---------------------|----------------------|---------------------|--------------------------|-------------------------------|
| 0: (Portfolio not assigned) | 6 | 4 | 6 | 0.05% | 100.00% |
| 1: Markets, Trade, Policy and International Development | 555 | 535 | 680 | 5.08% | 81.62% |
| 2: Processing, Engineering and Technology for Food and Bio Products | 1,267 | 1,121 | 1,487 | 11.60% | 85.21% |
| 3: Animal Systems | 2,339 | 2,162 | 2,778 | 21.42% | 84.20% |

The Project List page is then displayed:

USDA REEIS MEASURING RESULTS

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Leadership Management Dashboard (Release 4.0) for Owen Dall Settings | Back to Portal | Log Out

Project List

columns export 10

| Accession Number | Type | Director | Grantee Name | Title |
|------------------|-------|------------------|----------------------------------|---|
| 0084658 | HATCH | Apland, J. D. | SAES - UNIVERSITY OF MINNESOTA | Efficient Management of Agricultural Resources and Technology Considering Profitability, Risk and the Environment |
| 0093725 | HATCH | Runge, C. F. | SAES - UNIVERSITY OF MINNESOTA | Trade, Environment and Agricultural Science in the Global Commons |
| 0134389 | HATCH | Taylor, W. W. | SAES - MICHIGAN STATE UNIVERSITY | The Consequences of Globalization on Fisheries Resources in the Great Lakes and Other Shared Fisheries |
| 0134929 | HATCH | Atwood, J. A. | SAES - MONTANA STATE UNIVERSITY | AGRICULTURAL FINANCE AND FARM AND RANCH MANAGEMENT |
| 0134932 | HATCH | Brester, G. W. | SAES - MONTANA STATE UNIVERSITY | AGRICULTURAL MARKETING, PRICE ANALYSIS AND TRADE PROBLEMS IN DYNAMIC MARKETS |
| 0135473 | HATCH | Loh, D. K. | SAES - TEXAS A&M UNIVERSITY | Promoting Agricultural Sustainability through Green Food Pathway toward Wholesome Environment, Foods and Living |
| 0154525 | HATCH | Williams, G. W. | SAES - TEXAS A&M UNIVERSITY | Globalization and Texas Agricultural and Food Product Markets |
| 0163286 | HATCH | Schweikhardt, D. | SAES - MICHIGAN STATE UNIVERSITY | The Economics and Political Economy of Agricultural and Trade Policies and Institutions |
| 0164799 | HATCH | Bailey, D. | SAES - UTAH STATE UNIVERSITY | Enhancing the Competitiveness and Value of U.S. Beef (from W1177) |
| 0165014 | HATCH | Rooney, L. W. | SAES - TEXAS A&M UNIVERSITY | Marketing and Delivery of Quality Grains and BioProcess Coproducts |

Showing 1 to 10 of 555

1 2 3 4 Next Last

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2.4.2. Click on an Accession Number for the Project Detail Page

The screenshot shows the LMD 4.0 Leadership Management Dashboard for Owen Dall. At the top, there are logos for USDA and REEIS (Measuring Results). Below the logos are navigation links: Activities, My Snapshots, State Snapshots, Awards, AREERA POW, Workload, Goals, Portfolios, Analyze, Definitions, and Contact Us. The main content area is titled "Project List" and contains a table with the following columns: Accession Number, Type, Director, Grantee Name, and Title. A red arrow points to the "Accession Number" column header. The table lists 10 projects, with the first one having the accession number 0084658. At the bottom of the table, it says "Showing 1 to 10 of 555".

| Accession Number | Type | Director | Grantee Name | Title |
|------------------|-------|------------------|----------------------------------|---|
| 0084658 | HATCH | Apland, J. D. | SAES - UNIVERSITY OF MINNESOTA | Efficient Management of Agricultural Resources and Technology Considering Profitability, Risk and the Environment |
| 0093725 | HATCH | Runge, C. F. | SAES - UNIVERSITY OF MINNESOTA | Trade, Environment and Agricultural Science in the Global Commons |
| 0134389 | HATCH | Taylor, W. W. | SAES - MICHIGAN STATE UNIVERSITY | The Consequences of Globalization on Fisheries Resources in the Great Lakes and Other Shared Fisheries |
| 0134929 | HATCH | Atwood, J. A. | SAES - MONTANA STATE UNIVERSITY | AGRICULTURAL FINANCE AND FARM AND RANCH MANAGEMENT |
| 0134932 | HATCH | Brester, G. W. | SAES - MONTANA STATE UNIVERSITY | AGRICULTURAL MARKETING, PRICE ANALYSIS AND TRADE PROBLEMS IN DYNAMIC MARKETS |
| 0135473 | HATCH | Loh, D. K. | SAES - TEXAS A&M UNIVERSITY | Promoting Agricultural Sustainability through Green Food Pathway toward Wholesome Environment, Foods and Living |
| 0154525 | HATCH | Williams, G. W. | SAES - TEXAS A&M UNIVERSITY | Globalization and Texas Agricultural and Food Product Markets |
| 0163286 | HATCH | Schweikhardt, D. | SAES - MICHIGAN STATE UNIVERSITY | The Economics and Political Economy of Agricultural and Trade Policies and Institutions |
| 0164799 | HATCH | Bailey, D. | SAES - UTAH STATE UNIVERSITY | Enhancing the Competitiveness and Value of U.S. Beef (from W1177) |
| 0165014 | HATCH | Rooney, L. W. | SAES - TEXAS A&M UNIVERSITY | Marketing and Delivery of Quality Grains and BioProcess Coproducts |

Clicking on The “Accession Number” cell will load the related Project Detail page:

The screenshot shows the Project Detail page for accession number 0084658. The page features the USDA and REEIS logos at the top. Below the logos is a banner image showing various agricultural scenes. The main content area is titled "Source: UNIV OF MINNESOTA submitted to CRIS" and "EFFICIENT MANAGEMENT OF AGRICULTURAL RESOURCES AND TECHNOLOGY CONSIDERING PROFITABILITY, RISK AND THE ENVIRONMENT". The project director is listed as APLAND, J. D. The performing organization is UNIV OF MINNESOTA, ST PAUL, MN 55108. The non-technical summary, objectives, and approach are also provided. At the bottom, the CRIS number, project number, sponsor agency, and project type are listed.

Source: UNIV OF MINNESOTA submitted to CRIS

EFFICIENT MANAGEMENT OF AGRICULTURAL RESOURCES AND TECHNOLOGY CONSIDERING PROFITABILITY, RISK AND THE ENVIRONMENT

PROJECT DIRECTOR: APLAND, J. D.

PERFORMING ORGANIZATION
(N/A)
UNIV OF MINNESOTA
ST PAUL, MN 55108

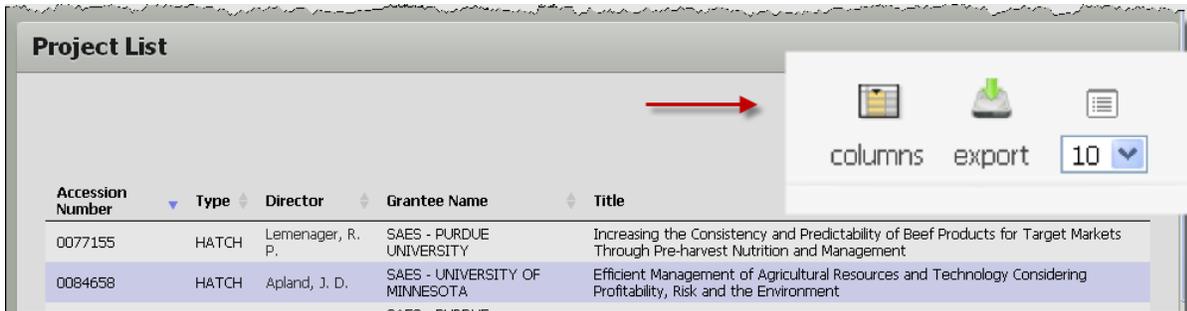
NON TECHNICAL SUMMARY: Agricultural and rural economies function in an environment of ever changing policies, technology and general economic conditions. Agricultural firms operating in this environment face constant challenges to maintaining profit and managing risk in a sustainable way. This project will support managers of farms and agribusinesses in meeting these challenges, and inform policy debates of concern to producers and the general public. Economic and environmental goals, both public and private, will be considered. Information gained about the profitability and risk associated with alternative courses of action will help firms plan more effectively and therefore better meet the needs of society. By understanding how firms may respond to changing technical, market and regulatory conditions, public policies may be designed to better meet broad social needs.

OBJECTIVES: 1. To derive risk efficient technology, input use and product mix decision rules for agricultural firms under changing market, policy and weather conditions. 2. To estimate the trade-offs between the economic goals of firms and environmental goals under changing technologies and public policies. 3. To estimate the impacts of changes in technology, agricultural and environmental policy, and general economic conditions on the structure and competitiveness in Minnesota's agricultural sector. Outputs of the projects will include prescriptive information for managers of agricultural firms to support significant decisions concerning resource allocation, technology adoption under future market and public policy conditions. Analyses to support public policy decisions that influence agricultural firms and the general public will be provided.

APPROACH: Quantitative analyses conducted under this project will use enterprise analysis and whole firm modeling techniques as supported. Empirical data will be augmented by experimental results and simulations as needed. For analyses which require a regional perspective, sector modeling techniques will be employed. Problems for which risk management and behavior is critical, risk programming, stochastic simulation and stochastic budgeting approaches will be used.

CRIS NUMBER: 0084658 **SUBFILE:** CRIS
PROJECT NUMBER: MIN-14-029 **SPONSOR AGENCY:** NIFA
PROJECT TYPE: HATCH PROJECT **STATUS:** RESEARCH **STATE PROJECT NUMBER:** (N/A)

2.5. Project List Options



There are three options available to the user on this page:

1. Columns
2. Export
3. Rows per Page

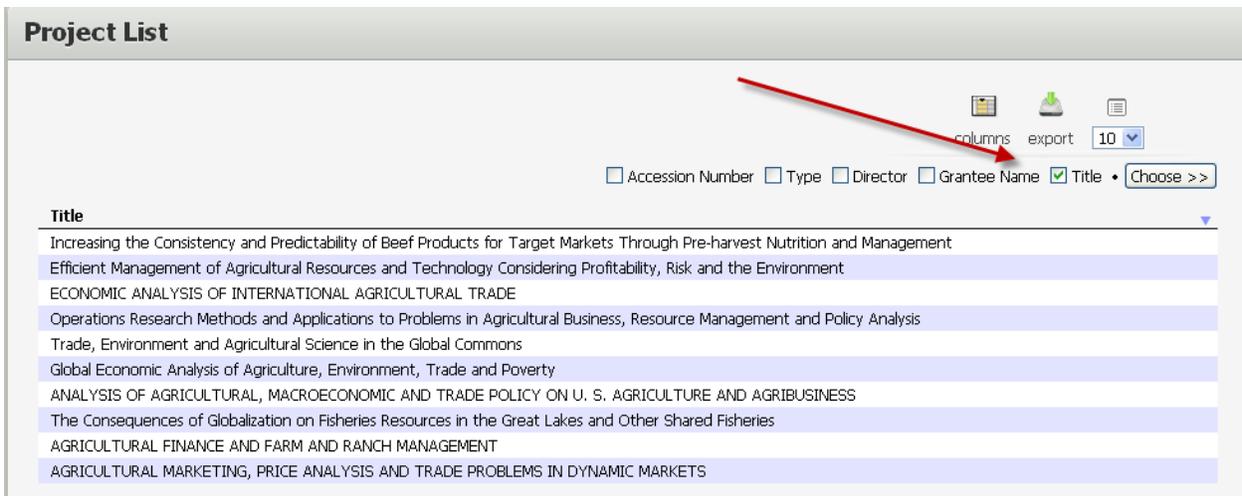
2.5.1. Column Selections

Selecting this option will bring up a checkbox list of all available columns to display:



Select the desired fields to display and click on the "Choose" button:

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The screenshot shows the 'Project List' interface. At the top right, there are icons for 'columns', 'export', and a dropdown menu set to '10'. Below these icons is a row of checkboxes: 'Accession Number', 'Type', 'Director', 'Grantee Name', and 'Title'. The 'Title' checkbox is checked. To the right of these checkboxes is a button labeled '(Choose >>)'.

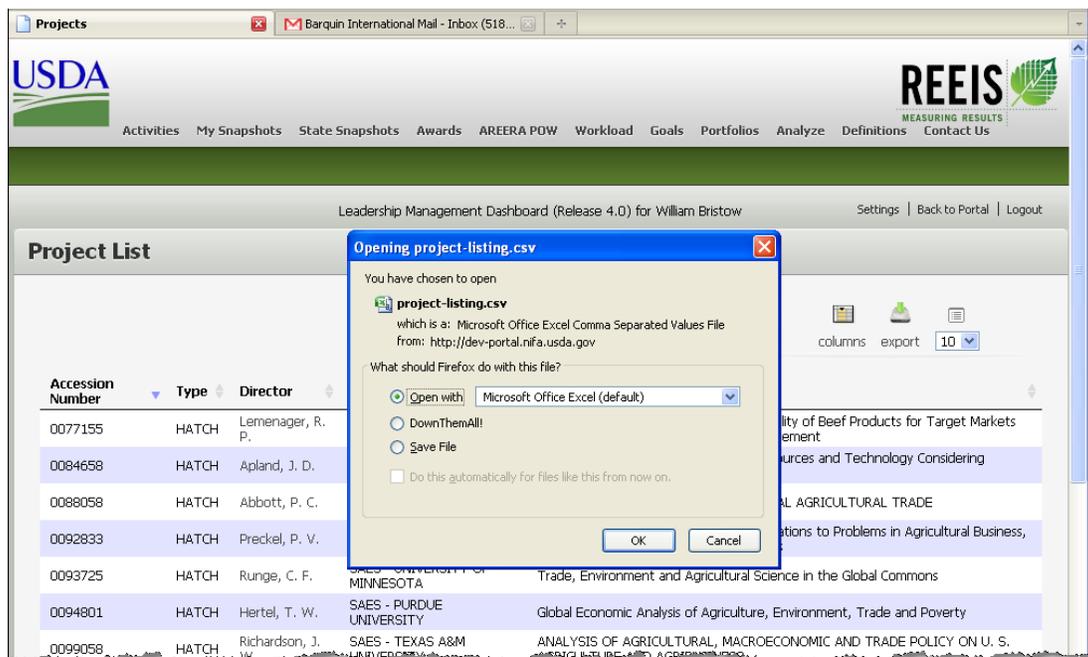
| Title |
|--|
| Increasing the Consistency and Predictability of Beef Products for Target Markets Through Pre-harvest Nutrition and Management |
| Efficient Management of Agricultural Resources and Technology Considering Profitability, Risk and the Environment |
| ECONOMIC ANALYSIS OF INTERNATIONAL AGRICULTURAL TRADE |
| Operations Research Methods and Applications to Problems in Agricultural Business, Resource Management and Policy Analysis |
| Trade, Environment and Agricultural Science in the Global Commons |
| Global Economic Analysis of Agriculture, Environment, Trade and Poverty |
| ANALYSIS OF AGRICULTURAL, MACROECONOMIC AND TRADE POLICY ON U. S. AGRICULTURE AND AGRIBUSINESS |
| The Consequences of Globalization on Fisheries Resources in the Great Lakes and Other Shared Fisheries |
| AGRICULTURAL FINANCE AND FARM AND RANCH MANAGEMENT |
| AGRICULTURAL MARKETING, PRICE ANALYSIS AND TRADE PROBLEMS IN DYNAMIC MARKETS |

2.5.2. Export

This option provides the ability to export all of the information currently active in the Project List to a comma separated value (CSV) format that can be loaded into Excel or another software package for analysis.

2.5.3. Rows per page

The option allows the user to set the preference for how many rows of data should be set per page.



The screenshot shows the 'Project List' interface with a dialog box open. The dialog box is titled 'Opening project-listing.csv' and contains the following text: 'You have chosen to open project-listing.csv which is a: Microsoft Office Excel Comma Separated Values File from: http://dev-portal.nifa.usda.gov'. Below this text, there is a dropdown menu labeled 'What should Firefox do with this file?' with 'Open with: Microsoft Office Excel (default)' selected. There are also radio buttons for 'DownThemAll!' and 'Save File', and a checkbox for 'Do this automatically for files like this from now on.'. The 'OK' and 'Cancel' buttons are at the bottom of the dialog box.

| Accession Number | Type | Director | Title |
|------------------|-------|------------------|--|
| 0077155 | HATCH | Lemenager, R. P. | Increasing the Consistency and Predictability of Beef Products for Target Markets Through Pre-harvest Nutrition and Management |
| 0084658 | HATCH | Apland, J. D. | Efficient Management of Agricultural Resources and Technology Considering Profitability, Risk and the Environment |
| 0088058 | HATCH | Abbott, P. C. | ECONOMIC ANALYSIS OF INTERNATIONAL AGRICULTURAL TRADE |
| 0092833 | HATCH | Preckel, P. V. | Operations Research Methods and Applications to Problems in Agricultural Business, Resource Management and Policy Analysis |
| 0093725 | HATCH | Runge, C. F. | Trade, Environment and Agricultural Science in the Global Commons |
| 0094801 | HATCH | Hertel, T. W. | Global Economic Analysis of Agriculture, Environment, Trade and Poverty |
| 0099058 | HATCH | Richardson, J. | ANALYSIS OF AGRICULTURAL, MACROECONOMIC AND TRADE POLICY ON U. S. AGRICULTURE AND AGRIBUSINESS |

The first row of any export will contain the column names including in the export:

LMD 4.0 User Guide

The screenshot shows a Microsoft Excel spreadsheet titled 'project-listing.csv [Read-Only]'. The spreadsheet contains a table with the following data:

| Accession Number | Type | Director | Grantee Name | Title |
|------------------|----------|-------------------|----------------------------------|-------------------------|
| 77155 | HATCH | Lemenager, R. P. | SAES - PURDUE UNIVERSITY | Increasing the Consiste |
| 84658 | HATCH | Apland, J. D. | SAES - UNIVERSITY OF MINNESOTA | Efficient Management |
| 88058 | HATCH | Abbott, P. C. | SAES - PURDUE UNIVERSITY | ECONOMIC ANALYSIS O |
| 92833 | HATCH | Preckel, P. V. | SAES - PURDUE UNIVERSITY | Operations Research M |
| 93725 | HATCH | Runge, C. F. | SAES - UNIVERSITY OF MINNESOTA | Trade, Environment an |
| 94801 | HATCH | Hertel, T. W. | SAES - PURDUE UNIVERSITY | Global Economic Analy |
| 99058 | HATCH | Richardson, J. W. | SAES - TEXAS A&M UNIVERSITY | ANALYSIS OF AGRICUL |
| 134389 | HATCH | Taylor, W. W. | SAES - MICHIGAN STATE UNIVERSITY | The Consequences of C |
| 134929 | HATCH | Atwood, J. A. | SAES - MONTANA STATE UNIVERSITY | AGRICULTURAL FINANC |
| 134932 | HATCH | Brester, G. W. | SAES - MONTANA STATE UNIVERSITY | AGRICULTURAL MARKE |
| 135473 | HATCH | Loh, D. K. | SAES - TEXAS A&M UNIVERSITY | Promoting Agricultural |
| 138586 | ANIMAL H | Maclachlan, N. J. | SAES - UNIVERSITY OF CALIFORNIA | Host-virus Interactions |
| 153728 | HATCH | Foster, K. A. | SAES - PURDUE UNIVERSITY | Economic Analysis of C |
| 154525 | HATCH | Williams, G. W. | SAES - TEXAS A&M UNIVERSITY | Globalization and Texa |

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2.6. Saving and Accessing Saved Queries

A recent addition to the functionality of LMD 4.0 is the ability to create and name new pages using user-defined comparisons, filters or rankings. In version 4.0, all saved pages will be available to all LMD users. (It is planned to allow saving private pages in version 4.1). However, each user can edit and delete his/her own pages.

In the example below, are ranked by the Grant Obligation Dollars received from NIFA for the Food Safety Portfolio. Since there is no filter by year, all years of data (2002-2009) included in the data mart will be used in the calculations:

The screenshot shows the LMD 4.0 interface. At the top, there are logos for USDA and REEIS (MEASURING RESULTS). The navigation menu includes: Activities, My Snapshots, State Snapshots, Awards, AREERA POW, Workload, Goals, Portfolios, Analyze, Definitions, Contact Us. Below the menu, there are tabs for Compare, Filter, and Rank. The main content area is titled 'Rank - New Page' and contains the following configuration options:

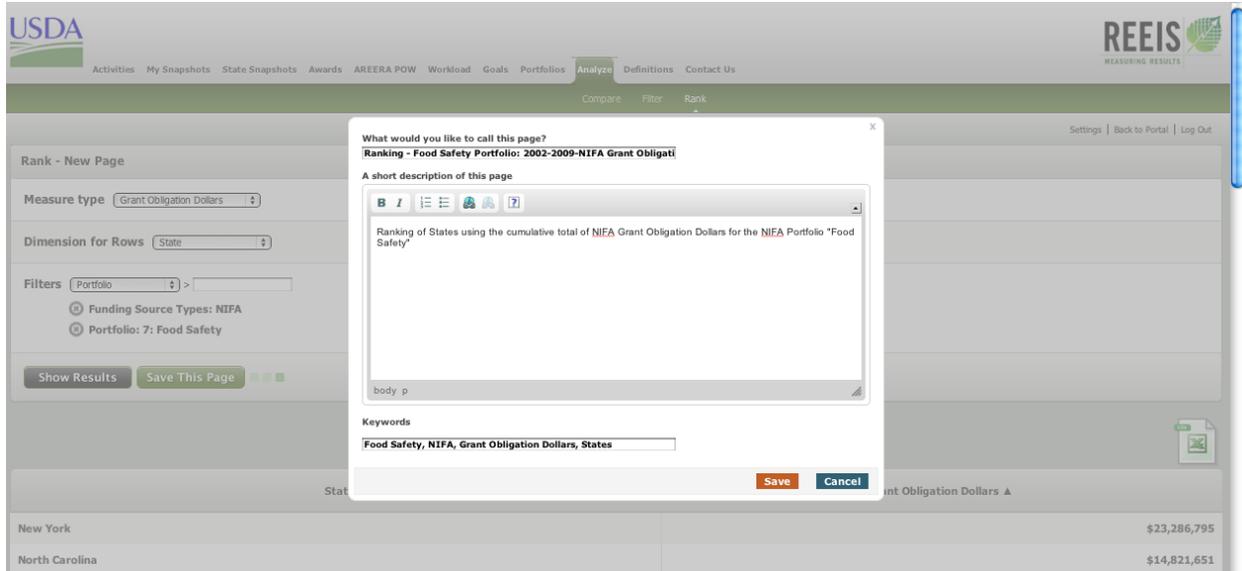
- Measure type: Grant Obligation Dollars
- Dimension for Rows: State
- Filters: Portfolio (dropdown), Funding Source Types: NIFA (checked), Portfolio: 7: Food Safety (checked)
- Buttons: Show Results, Save This Page

Below the configuration area is a table showing the results of the ranking. The table has two columns: State and Grant Obligation Dollars. The data is as follows:

| State | Grant Obligation Dollars |
|----------------|--------------------------|
| New York | \$23,286,795 |
| North Carolina | \$14,821,651 |
| California | \$13,033,463 |
| Texas | \$11,574,996 |
| Florida | \$11,489,138 |
| Iowa | \$10,817,582 |
| Michigan | \$7,337,111 |

Clicking on “Save This Page” will bring up a window for entering a title, description, and keywords for this page to be saved:

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USDA REEIS MEASURING RESULTS

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Compare Filter Rank

Rank - New Page

Measure type Grant Obligation Dollars

Dimension for Rows State

Filters Portfolio >

Funding Source Types: NIFA
Portfolio: 7: Food Safety

Show Results Save This Page

What would you like to call this page?
Ranking - Food Safety Portfolio: 2002-2009-NIFA Grant Obligat[i]

A short description of this page

Ranking of States using the cumulative total of NIFA Grant Obligation Dollars for the NIFA Portfolio "Food Safety"

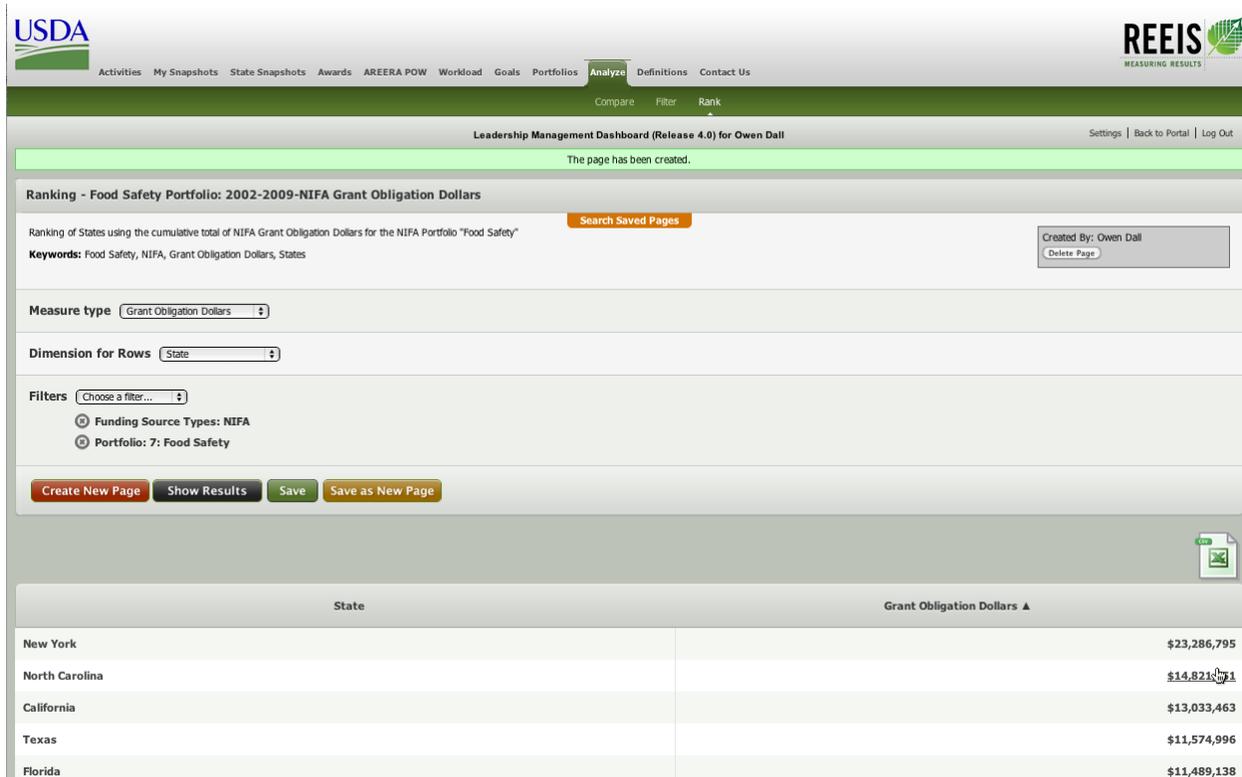
Keywords
Food Safety, NIFA, Grant Obligation Dollars, States

Save Cancel

Settings | Back to Portal | Log Out

| State | Grant Obligation Dollars |
|----------------|--------------------------|
| New York | \$23,286,795 |
| North Carolina | \$14,821,651 |

After the "Save" button is clicked, the page is refreshed to look as follows:



USDA REEIS MEASURING RESULTS

Activities My Snapshots State Snapshots Awards AREERA POW Workload Goals Portfolios Analyze Definitions Contact Us

Compare Filter Rank

Leadership Management Dashboard (Release 4.0) for Owen Dall

The page has been created.

Ranking - Food Safety Portfolio: 2002-2009-NIFA Grant Obligation Dollars

Search Saved Pages

Ranking of States using the cumulative total of NIFA Grant Obligation Dollars for the NIFA Portfolio "Food Safety"

Keywords: Food Safety, NIFA, Grant Obligation Dollars, States

Created By: Owen Dall
Delete Page

Measure type Grant Obligation Dollars

Dimension for Rows State

Filters Choose a filter...

Funding Source Types: NIFA
Portfolio: 7: Food Safety

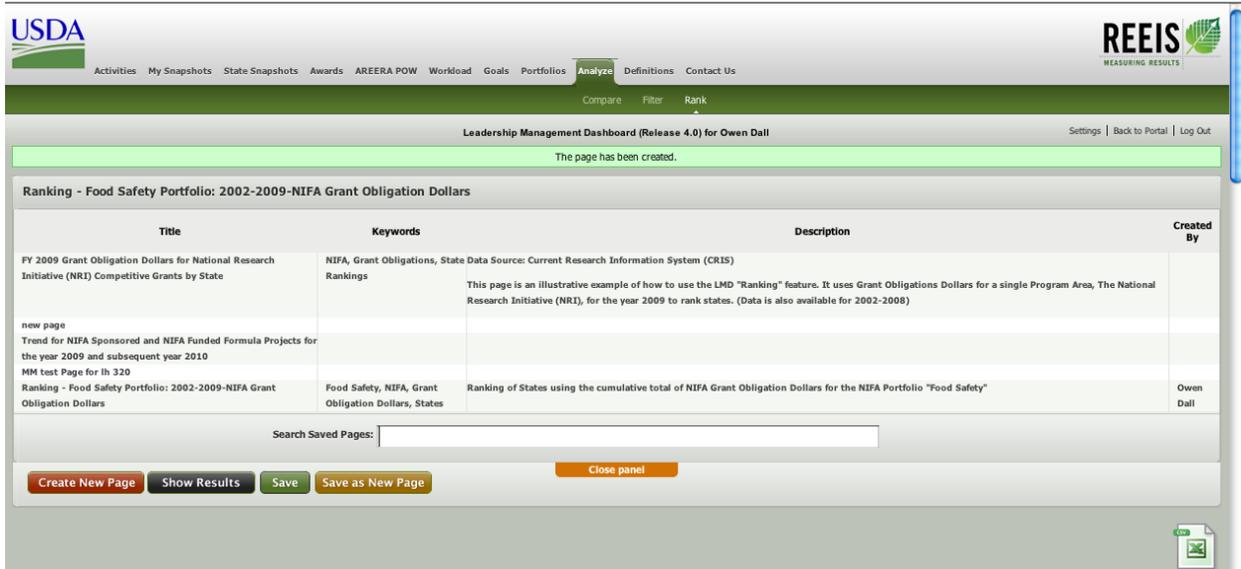
Create New Page Show Results Save Save as New Page

| State | Grant Obligation Dollars |
|----------------|--------------------------|
| New York | \$23,286,795 |
| North Carolina | \$14,821,651 |
| California | \$13,033,463 |
| Texas | \$11,574,996 |
| Florida | \$11,489,138 |

Note: Your name will be associated with this saved query. In Version 4.0, you will not be able to identify other users who created saved pages, only your own.

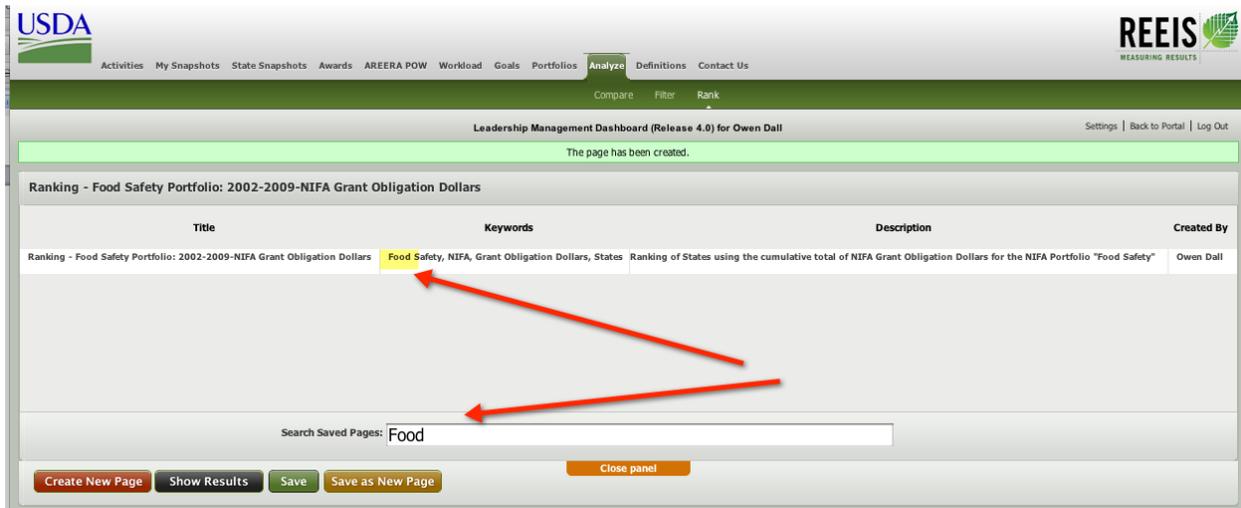
LMD 4.0 User Guide

Search Saved Pages. To access previously saved pages, click on the “Search saved pages” button:



In this case you can see that there have been a few saved “Rank” pages

As the repository of saved pages grows, the search box becomes useful:



It uses a real-time type-ahead matching feature that does not require a “submit” action.

2.7. Sparkline Display and Drill to Detail

From Wikipedia:

“The term *sparkline* was proposed by [Edward Tufte](#) for "small, high resolution graphics embedded in a context of words, numbers, images". Tufte describes sparklines as "data-intense, design-simple, word-sized graphics"

Whereas the typical charts designed to show as much data as possible, and is set off from the flow of text (as in the box below), sparklines are intended to be succinct, memorable, and located where they are discussed.”

In LMD, the sparklines are placed at the end of the row of numbers, to make it easier to see trends at a glance:



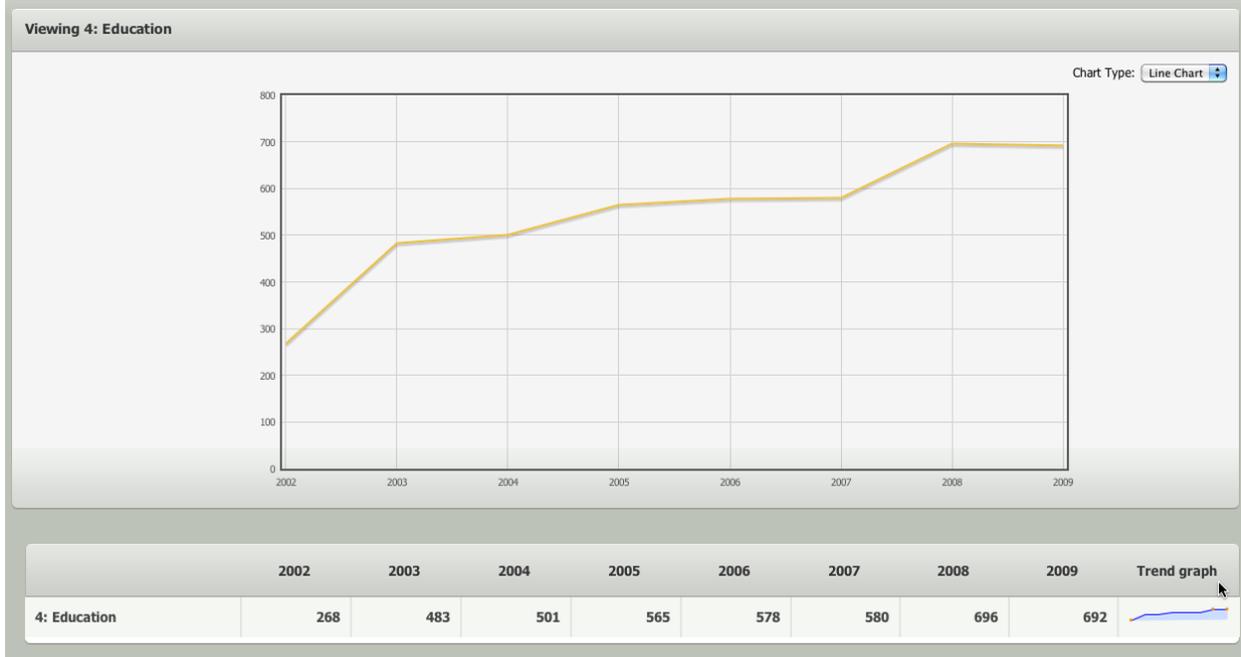
| Portfolios / Knowledge Areas | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | Trend graph |
|---|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| 0: (Portfolio not assigned) | 12 | 11 | 13 | 15 | 9 | 16 | 19 | 13 | |
| 1: Markets, Trade, Policy and International Development | 979 | 974 | 959 | 952 | 896 | 733 | 767 | 781 | |
| 2: Processing, Engineering and Technology for Food and Bio Products | 1,761 | 1,919 | 1,942 | 1,952 | 1,904 | 1,765 | 1,815 | 1,979 | |
| 3: Animal Systems | 4,064 | 3,949 | 3,893 | 3,911 | 3,787 | 3,821 | 3,857 | 3,840 | |
| 4: Education | 268 | 483 | 501 | 565 | 578 | 580 | 696 | 692 | |
| 5: Farm Management for Sustainability | 774 | 858 | 882 | 928 | 986 | 924 | 995 | 1,059 | |
| 6: Quality of Life in Rural Areas | 884 | 886 | 916 | 904 | 947 | 997 | 1,070 | 1,164 | |
| 7: Food Safety | 843 | 892 | 897 | 943 | 949 | 849 | 874 | 837 | |
| 8: Plant Systems | 6,408 | 6,709 | 6,579 | 6,661 | 6,385 | 6,108 | 6,357 | 6,220 | |
| 9: Nutrition and Healthier Food Choices | 726 | 714 | 760 | 773 | 814 | 768 | 835 | 949 | |
| 10: Environment and Natural Resources | 4,509 | 5,059 | 4,924 | 5,048 | 4,944 | 4,733 | 4,731 | 4,743 | |
| 11: Supports All Portfolios | 141 | 162 | 174 | 169 | 158 | 148 | 144 | 139 | |
| Total | 17,792 | 18,590 | 18,237 | 18,408 | 17,870 | 17,178 | 17,596 | 17,657 | |

Looking at the sparklines in the chart above, we can see immediately which portfolios have had an increase in project counts over time.

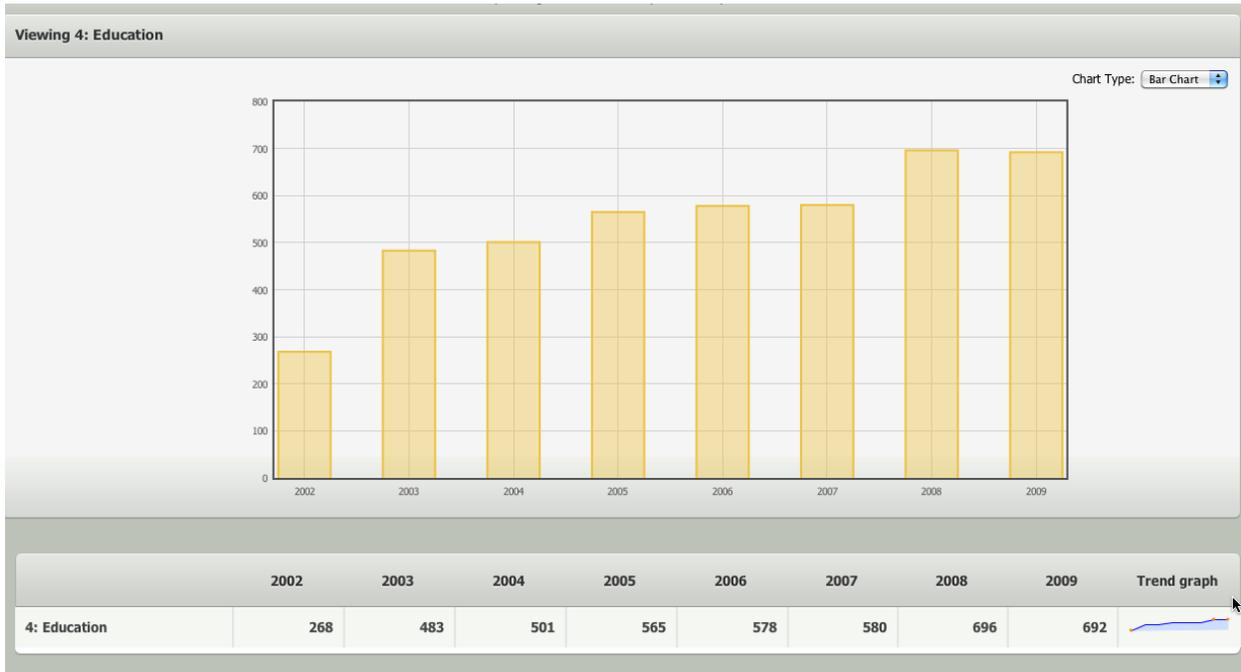
For example, Portfolio 4, “Education” has increased from 268 to 6692 from 2002 to 2009.

Clicking on that sparkline will drill to a new table and chart that includes only that row of data:

LMD 4.0 User Guide

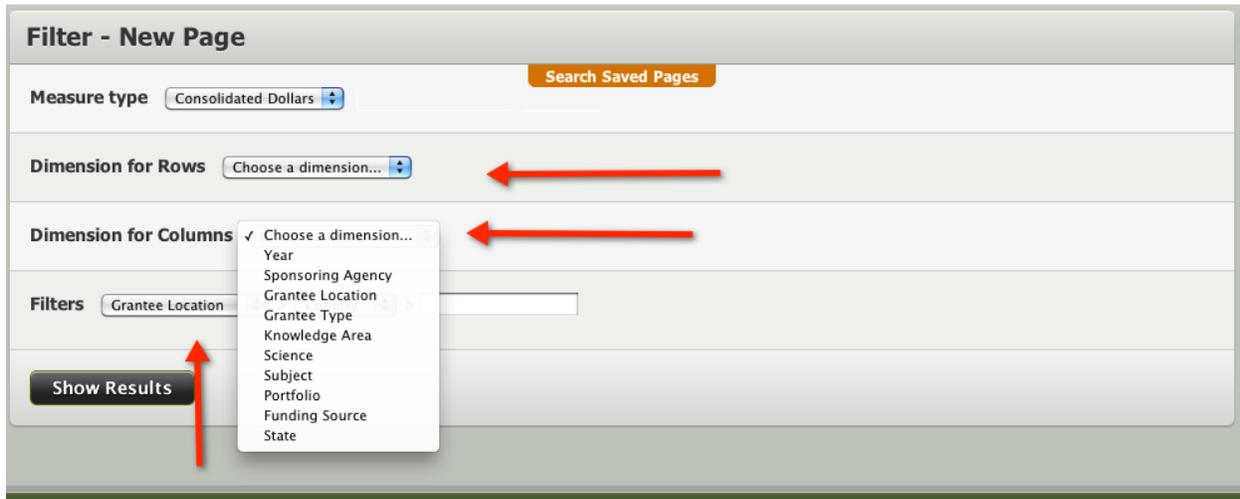


This page has a more accurate line chart graph, which can also be switched to a bar chart view:

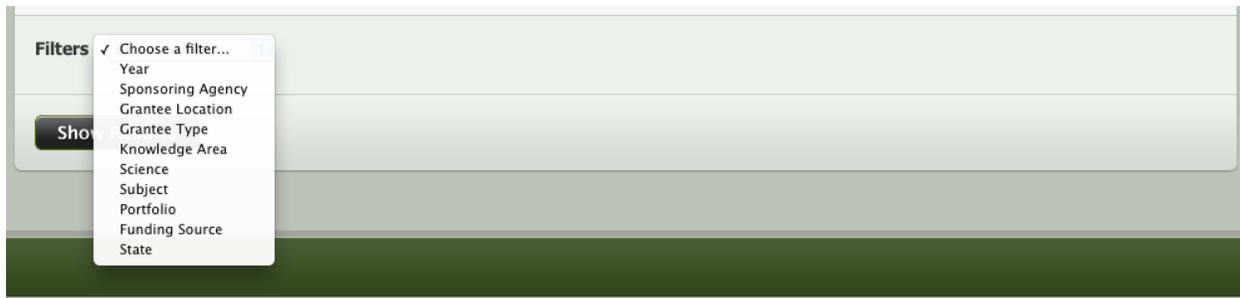


2.8. Hierarchy (Rollup) Navigation for Dimensions and Filters

The LMD 4.0 user-interface is designed to automatically use data model hierarchies (rollups) anywhere the user is prompted to provide a value for a dimension, such as for Columns, Rows, and Filters, in the Compare, Filter, and Rank Tabs.



The following screen shot shows the currently available dimensions available when using Filters:



Note that when defining Filters, any combination of any of the filter values can be used together.

For example, the screen shot below illustrates the following Report Definition:

“Using the FTE (Scientist Year) measure, put “Years” in columns and “States” in rows.
Filter using the combination of:

1. Grantee Type = “Forestry School”
2. Knowledge Area Topic = “3”
3. For the Years 2007-2009”
4. Funding Source =”NIFA Only: Formula”

LMD 4.0 User Guide

Filter - New Page

Search Saved Pages

Measure type: FTE

Dimension for Rows: State

Dimension for Columns: Year

Filters: Funding Source > NIFA Only > []

- Grantee Type Type: FRST: Forestry School
- Knowledge Area Topic: 3:ANIMALS AND THEIR SYSTEMS
- Year: 2007
- Year: 2008
- Year: 2009
- Funding Source NIFA Only: Formula

Show Results

The following sections outline in detail the dimensions and their rollups available in LMD 4.0

2.8.1. Year Options

Filters: Year > []

- 2002
- 2003
- 2004
- 2005
- 2006
- 2007
- 2008
- 2009

Show Results

2.8.2. Sponsoring Agency

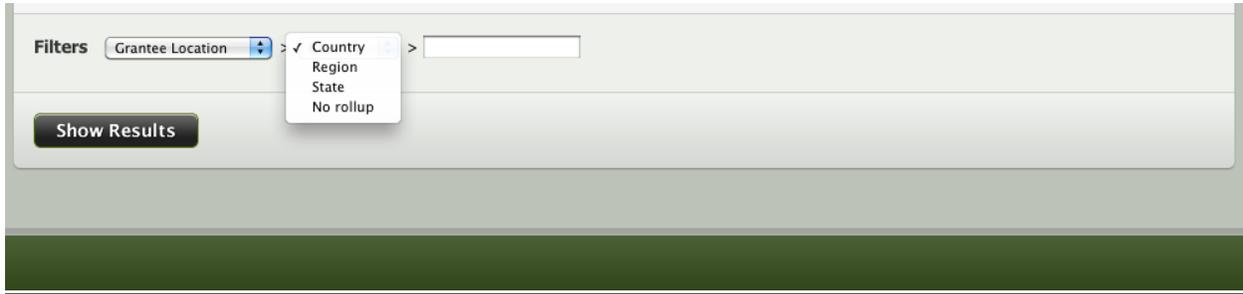
Filters: Sponsoring Agency > []

- ARS
- ERS
- FS
- NIFA
- OTHER

Show Results

2.8.3. Grantee Location

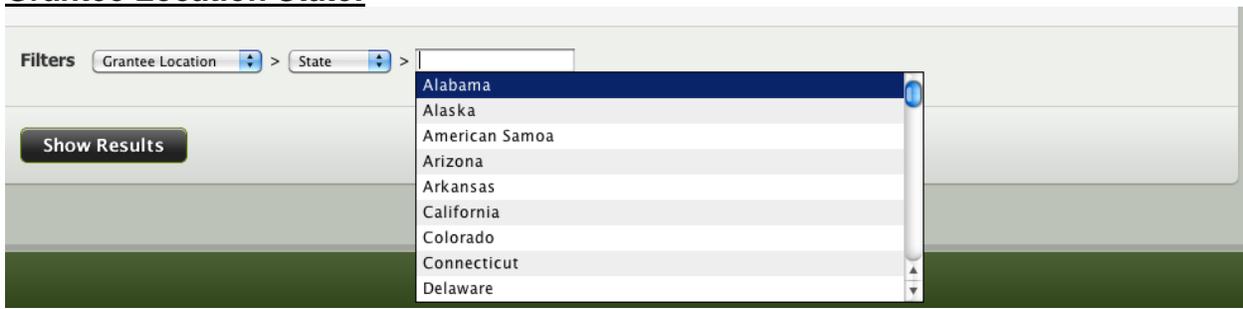
Grantee Location Country:



Grantee Location Region:



Grantee Location State:

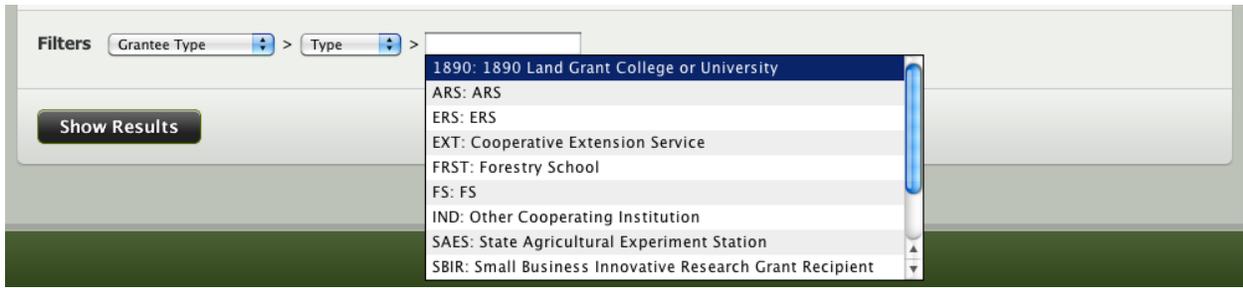


Grantee location (No rollup)



2.8.4. Grantee Type Rollups

Grantee Type:



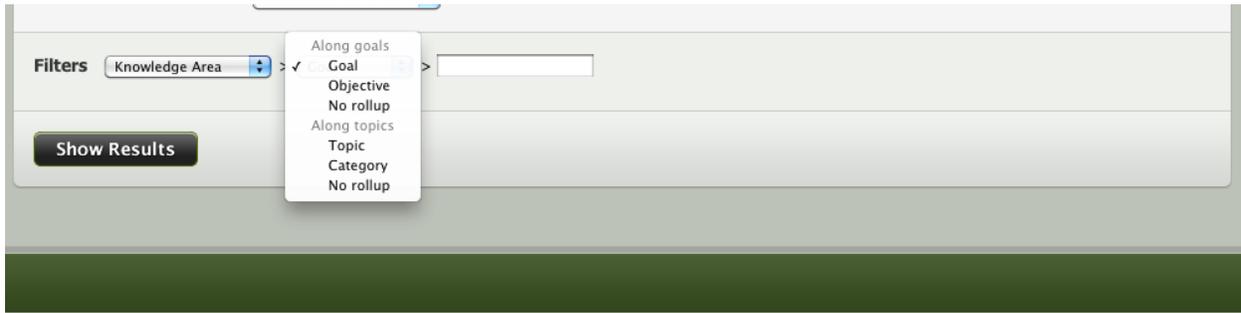
Grantee Type (No rollup)



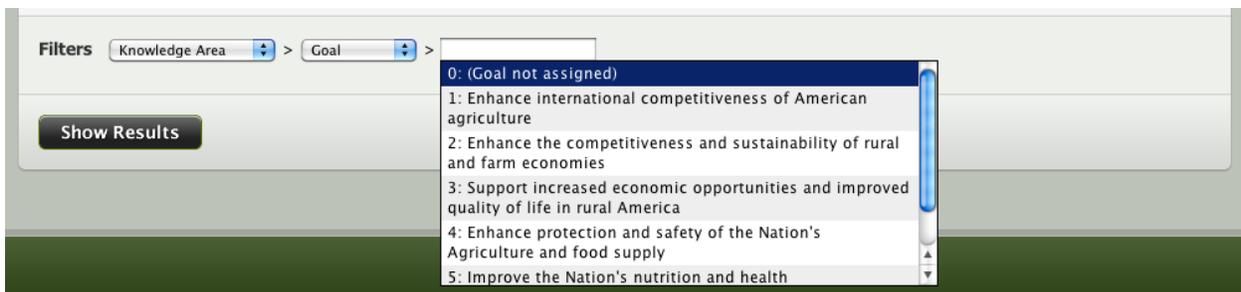
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2.8.5. Knowledge Area Rollups

You have a variety of choices for filters:



NIFA Goal:



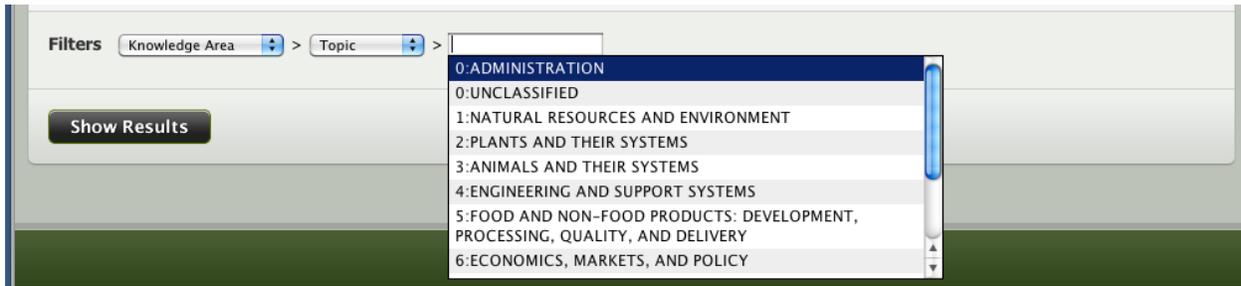
NIFA Objective:



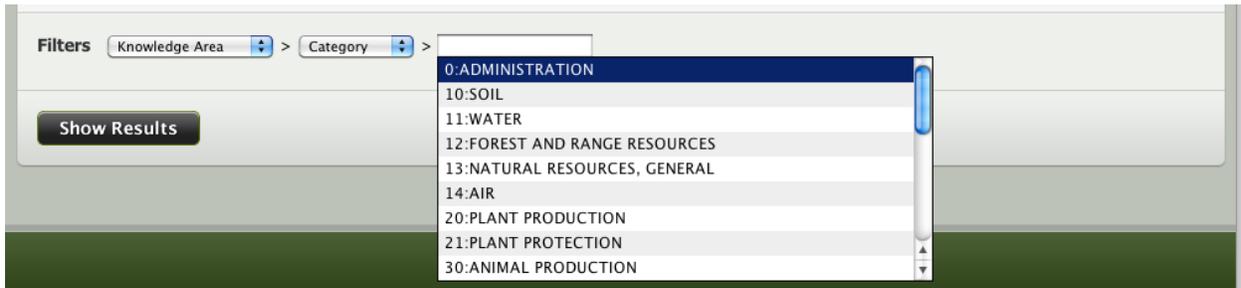
NIFA Knowledge Area (No rollup)



Knowledge Area Topic:



Knowledge Area Category:

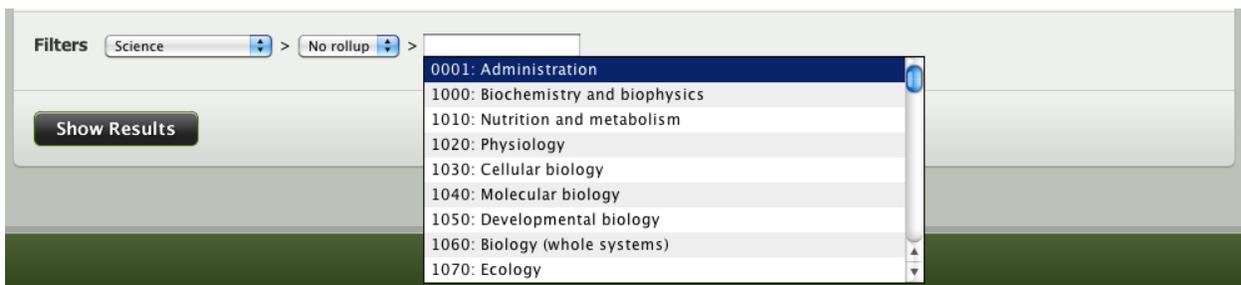


2.8.6. Science (Field of Science) Rollups

Science Category:



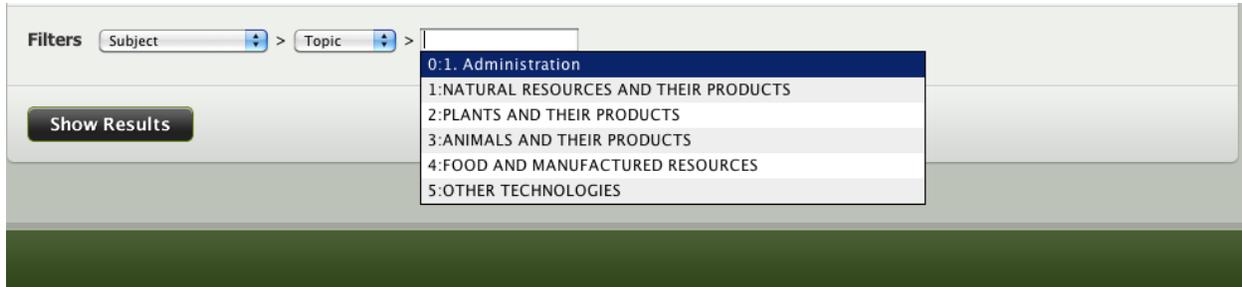
Science (No rollup)



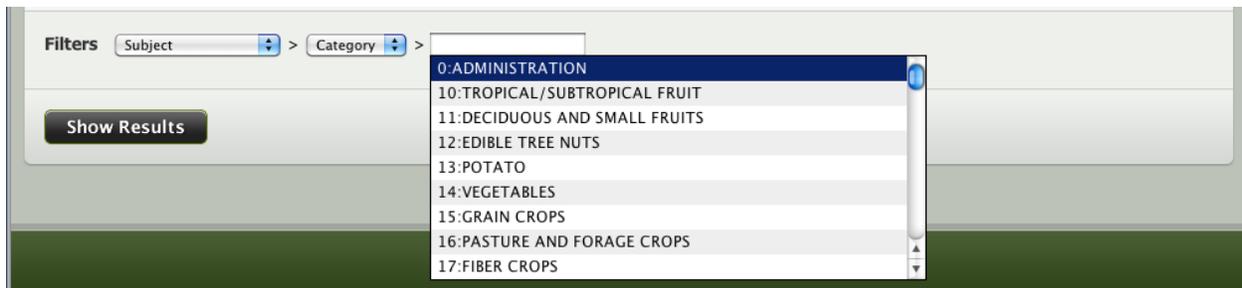
LMD 4.0 User Guide

2.8.7. Subject (NIFA Subject of Investigation) Rollups

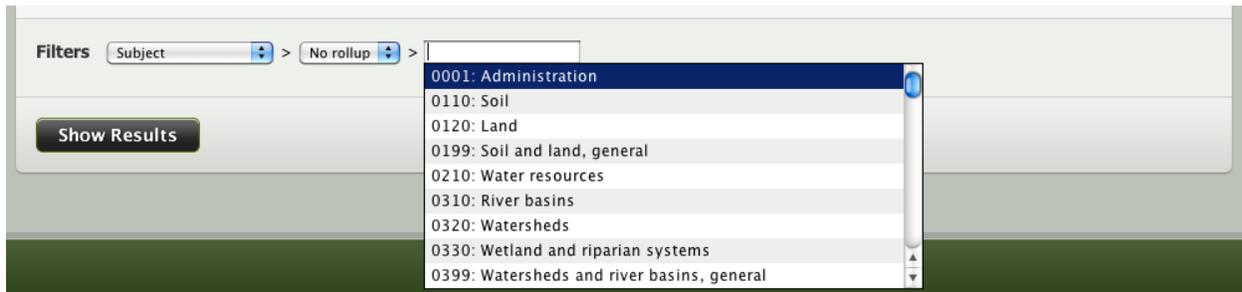
Subject Topic:



Subject Category:

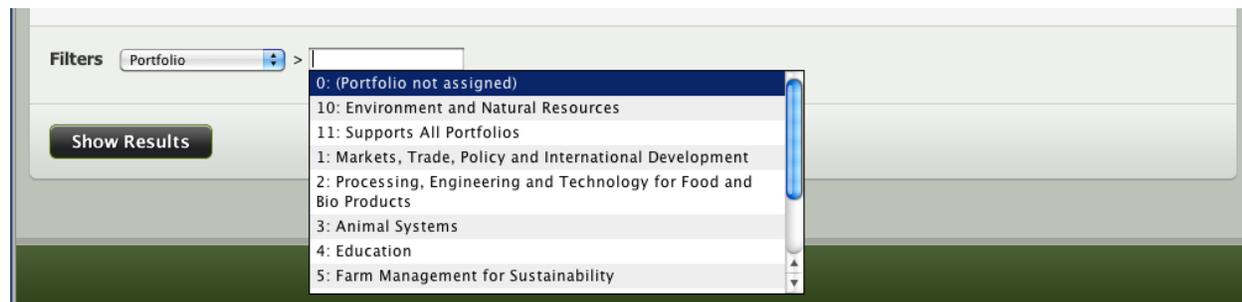


Subject (No rollup):



2.8.8. Portfolio:

There are no rollups for Portfolio at this time.

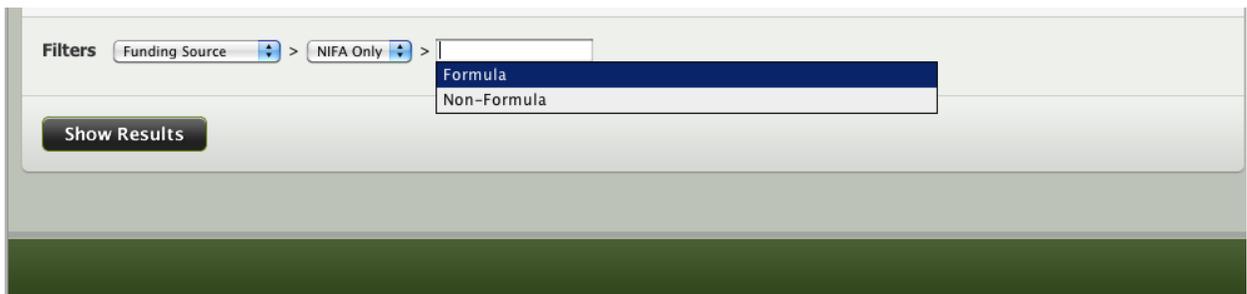


2.8.9. Funding Source

Funding Source Types:



NIFA Only: Formula vs. Non-Formula



Funding Source (No Rollup):



2.8.10. State

This dimension without a rollup was added as a convenience. Use “Grantee Location” to filter by Region or Country.

