Joint Budget Web Sites and Databases

• Opportunities for Collaboration in Enterprise Budget Development

• AAEA 2002 Presentation by David Buland USDA NRCS
Outline

• History
• Cost and Returns Estimation Website
• CARE Listserver
• NRCS Data and Analysis Tools website
• Web Search Helps
• New Technology, My.NRCS.usda.gov
• Question? What should we be doing??
Recent NRCS Economic History

Seven years ago, the Institutes were set up to provide technology support to states and field offices. Two state economists were randomly selected to replace 12 NTC economists, half with PhDs. National Technical Responsibility rests with 50 State Conservationists

NHQ Loses State/Local/Watershed Economic Expertise

NRCS averages less than one economist per state
Institutes

The Natural Resources Inventory and Analysis Institute (NRIAI) was created to improve the NRCS's ability to inventory, monitor, and assess status and trends of our nation's natural and environmental resources. The Natural Resources Conservation Service works in partnership with the American people to conserve and sustain natural resources on private lands.

NRIAI was chartered in 1993 and is in the Soil Survey and Resource Assessment Deputy Area, reporting to the Director of the Resources Inventory Division in NRCS National Headquarters. The Director of NRIAI is Dr. Emil Horvath.

The seven NRCS institutes are: Natural Resources Inventory and Analysis, Grazing Lands Technology, Soil Quality, Watershed Science, Wetland Science, Social Sciences, and Wildlife Habitat Management. These seven institutes have some 30 scientists and technical specialists at more than 30 locations nationwide. Their human and financial assets are leveraged through collaborations with partners in government, academic, and the private sector. All institutes share three major functions:

- Technology acquisition and development: Institute staffs develop science-based tools, methods, and procedures. They establish agreements with other scientists to acquire existing technologies that are appropriate for NRCS uses, and they modify technologies for NRCS field staff.
- Experimentation and pilot testing: New technology often needs rigorous testing, monitoring, and evaluation for NRCS field settings. Institutes sponsor and support demonstration and pilot projects to test innovative technologies, often in cooperation with partners outside the agency.
- Technology transfer and delivery: Institutes transfer technology by technical publications, by direct training, by distance learning and delivery via the Internet and Web, and by technology support software.
Welcome to the

Cost and Returns Estimation Website

Click here and type "SUBSCRIBE CARE" in the body of the e-mail to get on our Cost and Returns Estimation listserver.

AAEA Commodity Costs and Returns Estimation Handbook in pdf and WordPerfect formats
(allowed with permission from the Anne Hallam and the AAEA Statistics and Information Resources Committee.)

Budgets contains links to We also included links to as many University and Extension crop and livestock budget sites as possible as well as CARE databases for each of 63 Production Regions of the US (the same regions used in the Agricultural Sector Model) including conventional, minimal till, and no till budgets for each major crop. Just click on your state to bring up the known budgets for that state. If you have any budgets to contribute or link to, please e-mail David Buland.

ProCosts links to the new ProCosts Costs and Returns program. This new program follows the 1998 AAEA Cost and Return Equations and provide nationally consistent base data for crop, livestock, and conservation practice budgeting. The program software and initial datasets are available at http://people.nrcs.wisc.edu/insite/, with the current program software at http://people.nrcs.wisc.edu/insite/ProCosts/ReadMe.htm. A national set of budgets is available at Blackland Research Center. A Plan to put the ProCost Model on the Web

NRCS Economic Data has links to most economic data and models used by NRCS and other resource economists at http://waterhome.tamu.edu/NRCSdata/

Other Budgeting Software has links to other agricultural budgeting and modeling software sites.

Care Documentation contains the older NRCS DOS CARE User Manual.

Care Program allows you to download the older NRCS DOS CARE program for many different platforms.

Favorite Links has links to related web sites.

Staff contains contact information about the people who make the CARE program.
Functions of the CARE website

- Initial Functions, 1996
- The NRCS DOS CARE budget package needed a home after reorganization
- Dr. Verel Benson, then an NRCS Economist, had developed a national set CARE/EPIC budgets
1996 Initial Design Functions

• CARE DOS and UNIX Software
• CARE Documentation
• Blackland Budgeting Staff
• CARE Budgets, distributed by state
• Links to Other Software
• Webmaster Link
Added Functions, 1997 - 1999

- AAEA Commodity Costs and Returns Estimation Handbook
- Additional Budgeting Software Links
- Added Other US Budgets as needed
- ProCosts
- International Budgets
Why add the functions??

• Only NRCS had Multistate Responsibilities.
• Blackland needed to maintain nationally consistent budgets for EPIC/SWAT/CropMan modeling,
• Who else would put up the AAEA Handbook, at that time.
Commodity Costs and Returns Estimation Handbook

A Report of the AAEA Task Force on Commodity Costs and Returns

Download/Read Formats

| Entire Handbook in Acrobat pdf format, 557 pages, 2.1mb |
| Example Excel Spreadsheets | Individual Chapter Spreadsheets |
| Original Word Perfect Chapters | Individual Chapters in Word Perfect Format |
| Individual Chapters in PDF format |

This handbook’s purpose is to gather in one place information on estimating costs of and returns to agricultural enterprises. Some of the earliest formal work in agricultural economics related to the analysis and interpretation of cost data (H. C. Taylor). A major task of many individuals over the years has been the preparation and distribution of detailed cost of production estimates and projections. Undergraduate students in farm management classes have spent many hours learning how to prepare a projected corn or rice budget. In many states the extension service routinely prepares representative cost of production projections for use by area producers. And in many areas farm record associations provide annual cost of production summaries based on data collected from members. The United States Department of Agriculture (USDA) has been involved in the estimation of costs and returns (CARS) to agricultural enterprises for many years, the latest effort under the auspices of the Agricultural Resource Management Study (ARMS). This monograph was prepared by a Task Force organized by the American Agricultural Economics Association’s Economic Statistics and Information Resources Committee. The mission given to the Task Force by the committee was “to recommend standardized practices for generating costs and returns estimates for agricultural commodities after a careful examination of the relevant economic theory and the merits of alternative methods.”

Adobe Acrobat Reader software (Version 2.0 or higher - 3.0 or higher recommended) is required to read and print pdf documents. You can download free software by clicking the icon at the left.
Budgets

Hawaii Budgets

International Budgets

ERS Cost and Return Budgets

Agricultural Sector Model (ASM) Production Regions

Just click on your map area or on your state name below to receive the budgets for that area.

The CARE databases for each of 63 Production Regions of the US (the same regions used in the Agricultural Sector Model (ASM)) include conventional, minimal till, and no till budgets for each major crop. Details on their formation can be found in Development of Selected Crop Enterprise Budgets for the United States by Benton, V. W., E. J. Jordan, R. Davis, S. Neitsch and A. Meinhardt. March, 1997. They will be revised on this WEB site as corrections are made. Just unzip the data files in the same subdirectory as the CARE program.

Documentation on these budgets is forthcoming. Documentation on the outside use of these budgets is available at the Center for Agricultural and Rural Development at Iowa State University (http://www.ag.iastate.edu/card/divisions/rep/abstracts/hr37.html).

Please make whatever necessary changes are needed for your particular local use. Comments, and improvements to these budgets should be forwarded to our staff.

If you know of other available crop budgets not represented here, please provide the html address to Steve Dagize, Webmaster.
ERS Cost and Returns

U.S. and regional cost and return estimates for the most recent two years, 1999-2000

These estimates are presented for the U.S. and ERS farm resource regions for most commodities and are updated annually on or around October 1.

Recent historic costs and returns, U.S. and ERS farm resource regions, new format and regions

These estimates were made using the format and methods endorsed by the AAEA task force on commodity costs and returns and ERS farm resource regions. The accounts for most commodities surveyed since 1985 have been developed in this manner, while the accounts for other commodities will be converted to this format once new surveys are conducted.
Table 1--Cost of production forecasts for U.S. major field crops, 2001-02

<table>
<thead>
<tr>
<th>Item</th>
<th>Corn</th>
<th>Soybeans</th>
<th>Wheat</th>
<th>Cotton</th>
<th>Rice</th>
<th>Sorghum</th>
<th>Oats</th>
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<tbody>
<tr>
<td>2001</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2002</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dollars per planted acre</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Seed</td>
<td>31.58</td>
<td>33.26</td>
<td>20.17</td>
<td>21.25</td>
<td>6.46</td>
<td>6.80</td>
<td>22.35</td>
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<tr>
<td>Fertilizer</td>
<td>41.86</td>
<td>39.77</td>
<td>9.34</td>
<td>9.87</td>
<td>18.23</td>
<td>17.32</td>
<td>33.05</td>
</tr>
<tr>
<td>Chemicals</td>
<td>29.39</td>
<td>29.34</td>
<td>22.76</td>
<td>23.03</td>
<td>7.27</td>
<td>7.36</td>
<td>39.47</td>
</tr>
<tr>
<td>Custom operations</td>
<td>11.58</td>
<td>11.54</td>
<td>5.82</td>
<td>5.81</td>
<td>6.56</td>
<td>6.53</td>
<td>20.11</td>
</tr>
<tr>
<td>Fuel, tube, and electricity</td>
<td>27.49</td>
<td>26.94</td>
<td>8.12</td>
<td>7.93</td>
<td>6.82</td>
<td>8.41</td>
<td>34.90</td>
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<tr>
<td>Repairs</td>
<td>18.13</td>
<td>18.33</td>
<td>10.50</td>
<td>10.62</td>
<td>10.30</td>
<td>10.41</td>
<td>28.08</td>
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<tr>
<td>Other variable expenses</td>
<td>0.31</td>
<td>0.31</td>
<td>0.06</td>
<td>0.06</td>
<td>0.60</td>
<td>0.59</td>
<td>68.49</td>
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<tr>
<td>Interest on operating capital</td>
<td>2.94</td>
<td>2.01</td>
<td>1.31</td>
<td>0.97</td>
<td>0.99</td>
<td>0.72</td>
<td>4.52</td>
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<tr>
<td>Total, operating costs</td>
<td>165.08</td>
<td>161.80</td>
<td>78.09</td>
<td>78.54</td>
<td>59.03</td>
<td>58.14</td>
<td>270.97</td>
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<tr>
<td>Allocated overhead</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hired labor</td>
<td>3.36</td>
<td>3.45</td>
<td>2.03</td>
<td>2.08</td>
<td>2.30</td>
<td>2.36</td>
<td>37.01</td>
</tr>
<tr>
<td>Unpaid labor</td>
<td>32.23</td>
<td>33.04</td>
<td>19.50</td>
<td>19.99</td>
<td>15.75</td>
<td>16.14</td>
<td>29.92</td>
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<tr>
<td>Capital recovery</td>
<td>72.53</td>
<td>73.33</td>
<td>55.38</td>
<td>55.99</td>
<td>49.90</td>
<td>50.46</td>
<td>101.31</td>
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<tr>
<td>Land</td>
<td>94.10</td>
<td>95.44</td>
<td>84.37</td>
<td>85.57</td>
<td>38.87</td>
<td>38.72</td>
<td>54.56</td>
</tr>
<tr>
<td>Taxes and insurance</td>
<td>7.19</td>
<td>7.29</td>
<td>7.07</td>
<td>7.17</td>
<td>3.85</td>
<td>3.91</td>
<td>16.06</td>
</tr>
<tr>
<td>General farm overhead</td>
<td>11.33</td>
<td>11.45</td>
<td>14.85</td>
<td>15.01</td>
<td>6.98</td>
<td>7.05</td>
<td>16.13</td>
</tr>
<tr>
<td>Total, allocated costs</td>
<td>220.74</td>
<td>224.00</td>
<td>183.20</td>
<td>185.81</td>
<td>117.65</td>
<td>118.64</td>
<td>254.99</td>
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<tr>
<td>Total costs listed</td>
<td>383.82</td>
<td>385.80</td>
<td>261.29</td>
<td>264.35</td>
<td>176.68</td>
<td>176.78</td>
<td>525.96</td>
</tr>
</tbody>
</table>
Regional Budget and Cost Information

Links to Enterprise Budgets, Conservation Costs, and Software by States/County
And Links to Agriculture Economics, Extension, and Government Ag. sites

Agricultural Sector Model (ASM) Production Regions
Please click on a state for local information.
Current State Pages
All have a Common Format

1. State Ag. Economic Departments
2. State Extension Services
3. Local Crop & Livestock Budgets
4. Custom Rates
5. State Dept. of Ag. & State NASS Office
6. NRCS Office, FOTG, NRCS Economics
7. NRCS State Economist Email Link
Why the Changes??

- Provided NRCS economists and local staff with needed links for Economic Information
- Provided NRCS NHQ staff with quick links to states
- Provided the Public with links to state by state economic information
South Dakota

SDSU Economics Department
Extension Economics Publications
SDSU West River Ag Center
SDSU West River Ag Center Economics Publications
SDSU Cooperative Extension Service
Publications from the SDSU Extension Service
SDSU Livestock Production Publications
South Dakota State University Crop and Livestock Budgets
See Dr. Donald Peterson for details on crop budgets.
See Larry Madsen for details on livestock budgets

Determining Pasture Rents
C266 - 2001 Agricultural Land Market Trends
SDSU Weed Control Fact Sheets
Dakota Lakes Research Farm Management Information
South Dakota State Department of Agriculture
South Dakota Agricultural Statistics Service - USDA

NRCS South Dakota
NRCS South Dakota Technical Resources
NRCS South Dakota Field Office Technical Guide
South Dakota NRCS FY2001 Costs DOCKET
South Dakota CARE Budgets
NRCS Economist: Douglas C. Vik

Please send feedback on this WEB site, data calculations, or data distribution methods to David Buland.
07/03/2002. This website is sponsored by:
Common Headers

NRCS Economics & Analysis Site

Cost and Returns Estimation  Budgets
CARE Listserver

• With the common interest in budgeting software, we started the CARE Listserver in 1998
• Who here is a subscriber?
• Click here and type "SUBSCRIBE CARE" in the body of the e-mail to get on our Cost and Returns Estimation listserver.
• 182 subscribers, up by 40 since Christmas
NRCS Economics & Analysis Site

The NRCS Resource and Economic Analysis site is the support site for NRCS economists. Other sources of NRCS Resource Economic Analysis information are available at NRCS State the Land Site, Resource Economics and Social Sciences Division, and the Social Sciences Institute. Material available on this site include:

- What's New,
  - CSP Cost Tools, including Maintenance Costs Estimates
  - Example POTG Section III Quality Criteria
  - NRCS Service to Hispanic Farmers, Updated report and presentation
  - NRCS Economic Tools, 100+ tools classified by Land Resource Usage
  - NEW NRSEC Economics, NRCS POTG economic updates
  - Improved State POTG and Economic Information at http://waterhome.br. tampus.edu/are/budgets
- NEW NRSEC Site
- State by State Economic Websites
- NRCS Economic Tools
- NRCS Example Analyses
- NRCS Cost and Price Data
- NRCS Economic Technical Information, (Tech Notes, Handbooks, Discount Rates, Normalized Prices)
- Cost and Returns Estimation Website (ProCosts, CARE, and crop and livestock budgets from all states)
- NRCS Client Demographic Information and Hispanic Studies
- NRCS Economist and Social Sciences Directory
- Complete Table of Contents and Index
- Downloads
Formats for listing Budgeting Software

- CARE Budgeting Software Listing
- Alberta Agricultural Software Directory
- NRCS Models and Tools
- NRCS Analysis
- The New NRCS Tools
http://waterhome.brc.tamus.edu/care/models
## NRCS Economic Analysis Site

Economic Models/Tools


### Click here for a listing by 100 NRCS Economic Tools Organized by Land/Resource Use

<table>
<thead>
<tr>
<th>Model Name &amp; Link</th>
<th>Model Description</th>
<th>NRCS Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applying Biocoids</td>
<td>Applying Biocoids: Issues for Virginia Agriculture</td>
<td>David Faulkner, VA</td>
</tr>
<tr>
<td>AgSoftware Directory</td>
<td>Agricultural Software Directory, Alberta, Hundreds of Programs</td>
<td></td>
</tr>
<tr>
<td>CARE</td>
<td>Cost and Returns Estimation Site for NRCS, AAEA, and Extension</td>
<td>David Boland</td>
</tr>
<tr>
<td>CTools</td>
<td>Community Conservation Toolbox</td>
<td>Kevin Boyle</td>
</tr>
<tr>
<td>CED</td>
<td>Conservation Effects for Decision makers spreadsheets</td>
<td>NRCS Economists</td>
</tr>
</tbody>
</table>

[http://waterhome.br.tamu.edu/CARE/Budgets/](http://waterhome.br.tamu.edu/CARE/Budgets/)
Economic Tools for Technical Assistance

Developed by NRCS Economists and Planners

NRCS Economic Models/Tools

Click here for the older listing by 100 NRCS Economic Models & Tools Organized by Type of Tool

These Economic Tools are sorted by Resource Usage

- General Resource Planning
- General Economic Planning
- Crop/Hay
- Irrigation
- Forest
- Headquarters
- Range/Pasture
- Recreation
- Urban
- Wildlife
- Watershed Protection
- Examples of NRCS Economic Analysis
- Other Economic Tools Developed by Non-NRCS

General Resource Planning

Conservation Plan Review Checklist

Economic Effects of Conservation Practices

Hal Corbina, OR

http://waterhome.brc.tamu.edu/NRCSdata/analysis.html
NRCSdata Search Hints

- FirstGov.com
- Google.com
- Google.com Toolbar
- Search for “NRCSdata keywords”27
The Future, My.NRCS.usda.gov
Each NRCS state office will have their Technical Information here
The next five years

- What Enterprise Budgeting will be done in five years
- What are the new technology needs
- Who will be doing the budgets?
- Who is developing the Tools
- How can the structure be changed??