IPEDS
Peer Analysis System

The place to go for IPEDS data:

http://nces.ed.gov/ipeds
Session Agenda

- What is the Peer Analysis System?
- Overview of the IPEDS Surveys
- Flow and sequence of the PAS
- Data concepts and caveats
- Analysis with the PAS
- Other PAS features
What Is the Peer Analysis System?

The Peer Analysis System (PAS) is a web-based tool designed to enable a user to easily retrieve data for a group of postsecondary institutions.

- The user can compare one institution to a group of comparison institutions.
- The comparison institutions are selected by the user.
- The system allows the user to generate reports or files using selected IPEDS variables of interest.
What Other Tools Are Available?

The PAS may not be the best tool for all occasions:

- To quickly find basic data for a school, use IPEDS COOL (College Opportunities On Line).
- To reproduce data in the IPEDS Data Feedback Report, use the Executive Peer Tool.
- To get all the data from a survey or a data subset, use the Dataset Cutting Tool.
- To calculate national, state, or regional totals, use the Data Analysis System.
Select the Peer Analysis System

ExPT is available here

And here’s IPEDS COOL

The Integrated Postsecondary Education Data System (IPEDS), established as the core postsecondary education data collection program for NCES, is a system of surveys designed to collect data from all primary providers of postsecondary education. IPEDS is a single, comprehensive system designed to encompass all institutions and educational organizations whose primary purpose is to provide postsecondary education. The IPEDS system is built around a series of interrelated surveys to collect institution-level data in such areas as enrollments, program completions, faculty, staff, and finances.

IPEDS Web-Based Data Collection and related materials

IPEDS Peer Analysis System enables a user to compare a LinchPin institution of the user’s choosing to a group of peer institutions, by generating reports using selected IPEDS variables of interest.

Executive Peer Tool, a simplified version of the Peer Analysis System presenting data from the IPEDS Data Feedback Report.

IPEDS College Opportunities On-line (COOL) presents data on institution prices, financial aid, enrollment, and type of programs that are offered by the institution. IPEDS COOL is designed to help college students, future students, and their parents understand the differences between colleges and how much it costs to attend college.
Today, we’re working with the Old PAS:

The New PAS is coming! (spring, maybe??)

The basic principles for use apply to both, but the interface is cleaner and the navigation system is different.
Overview of the
IPEDS Surveys
1. Institutional Characteristics (IC)
2. Enrollment (EF)
3. Completions (C)
4. Graduation Rates (GRS)
5. Student Financial Aid (SFA)
6. Finance (F)
7. Human Resources (HR: EAP, S, SA)
Data Available in the Peer Analysis System

- 1980, 1984, 1985 HEGIS data
- 1986 – 2004 IPEDS data
- Selected HEGIS data not in the PAS are available at through the International Archive of Education Data housed at the University of Michigan.
Data Availability Caveats

To work effectively with the PAS, you must know the IPEDS surveys and data limitations:

– Not all data are available for all years
– New surveys have been added over time
– Some data fields have been discontinued
– New data fields have been added
– Definitions may change over time
## Survey Data Availability by Year

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Flow and Sequence of the PAS
Flow and Sequence of PAS

1. Select a level of access
2. Login if necessary
3. Select PAS or DCT
4. Identify a Lynchpin institution
5. Construct a comparison group
6. Prepare your analysis

(5 and 6 are obviously the major components!)
1. Select a level of access

**Executive Peer Tool** allows access to 2004-05 data presented in the IPEDS Data Feedback Report for your institution and a comparison group of institutions.

**Peer Analysis System**

- If you are using this system for the first time, click here to read an introduction.
- If you used this system before and you are familiar with the levels of access to the system, click on the desired level to login.
  - **Guest level**: Allows access to adjudicated data.
  - **Institution level**: Includes access to guest level files plus early release data. The early release files are provided for peer analysis only, and should not be used to provide aggregate estimates.
  - **Collection level**: Available only to institutions that submitted data electronically using our data entry facilities.
- The following self-guided tutorials will help get you started using the Peer Analysis System: PAS Tutorial

ExPT is available here

If you’re new to the PAS, try the tutorial

Three levels of access
2. Login if necessary

Welcome to the IPEDS Peer Analysis System

To enter the system at the Institution Level ... you must login first.

1. Enter User ID (an IPEDS UnitID)
2. Enter Password (same UnitID)
3. Click the Login button

You can use your institution’s UnitID or choose another.
Find other UnitIDs using IPEDS Cool.
3. Select PAS or DCT

4. Identify a LinchPin institution

You are now logged in at the: Institution Level

Peer Analysis System (PAS) provides a variety of analytical features for peer analysis. This includes the ability to create new calculated variables, to sort and rank schools based on the data items selected, and to view standard report templates.

To use the PAS, you must first select a LinchPin institution to use as the basis for your analysis. Enter either the name of the institution (or a keyword in the name) OR enter the UnitID (do not enter both). You may also select the "Use My Institution" button to begin your session.

Institution Name: 

Or

Institution UnitID: 

Select | Use My Institution | Help

The Dataset Cutting Tool (DCT) allows users to download IPEDS data to use with software packages for analysis and comparisons. Use the DCT to obtain complete data files and codes which were previously provided in the "Dump a Dataset" feature of the Peer Analysis System (PAS), or to create customized datasets according to your specifications.

Users may select their schools of interest with the DCT or may upload a list previously created in the PAS.

The DCT provides customized data element dictionaries, special data files, and programs that read the data into SAS, SPSS, STATA, and spreadsheet formats. These files are zipped for quicker downloading. The DCT is not intended to provide tables of data for estimates. Click here to access the Dataset Cutting Tool.
Navigating Within PAS

The menu bar is embedded in the graphic at the top of the page.

'Begin New Session' returns you to select a level of access.

'Main Menu' is this status screen; return for this summary information.

'Session Summary'

LinchPin institution: **University of San Diego**

Institutions currently in comparison group: **0**

Variables currently in your Master Variables List: **0**

You can begin by creating your comparison group or you can start adding to your master list of variables or you can upload your saved list of variables.
5. Construct a comparison group

Choose Selection Method

By Name

Identify Institutions

By Variable

Identify Variables

Confirm Selection

Define Selection Criteria

Auto Peer

Saved List

Identify Filename

Accept List

Modify List
No institutions are currently in your comparison group.

Choose an option below to define your comparison group.
Add by Name

The institutions you select will be added to the comparison group. The name or UnitID(s) will be searched for in table: Institutional Characteristics 2004-2005. You can enter a partial name and/or one or more UnitID(s) separated by commas.

Enter institutions by name; the PAS does an exact match, so your spelling must match the way the institution appears in IPEDS. This may require some trial and error!

Click the ‘Select’ button when finished.

The list will expand to accommodate additional schools.
To define a group by variable, select the variables of interest from the different IPEDS surveys.

**Comparison Group Variable Selection**

To select your query variables, choose from the surveys below.

**Frequently used/Derived variables:**
Frequently used and derived variables (including variables used in the IPEDS Data Feedback Report)
**Available Years:** 2002 2003 2004 2005

**Institutional Characteristics and Student Charges:**
Directory information, control or affiliation, award levels offered, accreditation, admissions, and student charges, including tuition and fees, room and board charges and price of attendance

**Enrollments:**
Fall enrollments by race/ethnicity, gender, age and residence
12-month enrollment and instructional activity

**Completions:**
Awards/degrees conferred by program, award level, and race/ethnicity

**Graduation Rates:**
Adjusted cohort, completers, completed within 150% of normal time, cohort graduation rate
**Available Years:** 1997 1998 1999 2000 2001 2002 2003 2004 2005
The auto peer group is based on such things as Carnegie classification, control and level of institution, degree-granting status, Title IV status, state code, and region code. It may or may not be useful for you. You can always use it as a starting point and add or delete schools.

### Institution Selection Query Results

*Please scroll to the bottom of the page to choose an option.*

Institutions in Comparison Group: 18

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<thead>
<tr>
<th>Institution ID</th>
<th>Institution Name</th>
<th>City, ST</th>
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<td>University of California-Davis</td>
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</table>

**Do you want to:**
- [ ] Accept the above set
- [ ] Remove the above set
Get Saved List

You can upload the definition of a comparison group that you’ve saved to your hard drive.
Exercise: Define a Comparison Group

For your institution – identify your sector, state or region, and first-time enrollment

• Begin a new session in PAS, log in at institutional level with your IPEDS ID, and identify your institution as the LinchPin

• Build a comparison group using:
  – Institutional Characteristics 2005: tag sector and state
  – Enrollment 2005: tag total enrollment

• Go to Query Form and select the delimiters of your search

• Are the results what you expected?

• Save your comparison group to your hard drive
Data Concepts and Caveats
Important Data Concepts

1. Collection year vs. data year
2. Imputation and perturbation
3. Release sequence of IPEDS data
4. Structure of IPEDS data files
5. Frequently used/derived variables
1. Collection Year vs. Data Year

- **Collection year:** academic year in which the data are collected by NCES during the fall, winter, and spring collection cycle.

- **Data year:** academic year the data represent, which may be prior to the collection year.
## Status by Survey Component

<table>
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<th>Survey Component</th>
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<td>Institutional Characteristics</td>
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<td>Enrollment</td>
<td>Data year = collection year except</td>
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<td>12-month unduplicated headcount (previous year)</td>
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<td>12-month instructional activity (previous year)</td>
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<td>Retention rate for previous year's freshman cohort</td>
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<td>Completions</td>
<td>Data for previous year</td>
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<td>Graduation Rates</td>
<td>Graduation rates for earlier years' cohorts</td>
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<td>Student Financial Aid</td>
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<td>Employees by Assigned Position</td>
<td>Data year = collection year</td>
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2. Disclosure Protection

- NCES is required by law to protect against disclosure of individually identifiable information collected in the IPEDS surveys.

- Impacts four IPEDS data files:
  - Graduation Rates
  - Student Financial Aid
  - Salaries
  - Fall Staff
Perturbation

• Random alteration of data in cells with small number of observations

• Protects the confidentiality of individually identifiable data

• Occurs during migration of data from data collection system to the PAS

• It’s unpopular—but the alternative is data suppression
Imputation

- IPEDS data are imputed for total nonresponse and item nonresponse
  - Various methods used such as prior year adjusted values, nearest neighbor, group means

- Imputation allows files to be used for national totals
- Imputed values appear on final data files
- Web data input has dramatically reduced the need to impute data values
**Data Sharing**

- **Data that an institution puts into IPEDS**
  - Belong to the institution
  - May be shared
  - BUT, may be subject to FERPA

- **Data IN the IPEDS data collection system**
  - Technically belong to NCES
  - Are subject to NCES confidentiality requirements
  - May NOT be shared

- **Data in the IPEDS Peer Analysis System**
  - Have been perturbed
  - Protect individually identifiable information
  - May be shared
3. **Data Release Stages**

- **Pre-release: login at collection level**
  - Data are reviewed and perturbed
  - Locked institutions are migrated to PAS
  - Data available for peer comparisons only

- **Early release: login at institution level**
  - All institutions are migrated to PAS
  - Data available for peer comparisons only

- **Final release: login at guest level**
  - Data are imputed and fully adjudicated
  - No restrictions on data use
4. Structure of IPEDS Data Files

- **Single-record files** contain one line of data for each institution—for example, data in the Institutional Characteristics survey.

- **Multiple-record files** contain several lines of data for each institution—for example, data by race/ethnicity and gender in the Enrollment survey.
# Single-Record File

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</thead>
<tbody>
<tr>
<td>100654</td>
<td>ALABAMA A &amp; M UNIVERSITY</td>
<td>-2</td>
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<td>131</td>
<td>2282</td>
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<td>ALABAMA A &amp; M UNIVERSITY</td>
<td>-2</td>
<td>104</td>
<td>88</td>
<td>2082</td>
<td>2262</td>
</tr>
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<td>-2</td>
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<td>88</td>
<td>2082</td>
<td>2262</td>
</tr>
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<td>-2</td>
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<td>12</td>
<td>559</td>
<td>517</td>
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<td>ALABAMA A &amp; M UNIVERSITY</td>
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<td>2339</td>
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<td>-2</td>
<td>98</td>
<td>83</td>
<td>1960</td>
<td>2124</td>
</tr>
<tr>
<td>100654</td>
<td>ALABAMA A &amp; M UNIVERSITY</td>
<td>-2</td>
<td>98</td>
<td>83</td>
<td>1960</td>
<td>2124</td>
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<td>-2</td>
<td>11</td>
<td>12</td>
<td>555</td>
<td>509</td>
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<td>-2</td>
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<td>24</td>
<td>245</td>
<td>427</td>
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<td>ALABAMA A &amp; M UNIVERSITY</td>
<td>-2</td>
<td>6</td>
<td>5</td>
<td>122</td>
<td>138</td>
</tr>
<tr>
<td>100654</td>
<td>ALABAMA A &amp; M UNIVERSITY</td>
<td>-2</td>
<td>6</td>
<td>5</td>
<td>122</td>
<td>138</td>
</tr>
<tr>
<td>100654</td>
<td>ALABAMA A &amp; M UNIVERSITY</td>
<td>-2</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>100663</td>
<td>UNIVERSITY OF ALABAMA AT BIF</td>
<td>-2</td>
<td>616</td>
<td>345</td>
<td>1084</td>
<td>2808</td>
</tr>
<tr>
<td>100663</td>
<td>UNIVERSITY OF ALABAMA AT BIF</td>
<td>-2</td>
<td>205</td>
<td>139</td>
<td>917</td>
<td>2262</td>
</tr>
<tr>
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<td>UNIVERSITY OF ALABAMA AT BIF</td>
<td>-2</td>
<td>200</td>
<td>128</td>
<td>839</td>
<td>2131</td>
</tr>
<tr>
<td>100663</td>
<td>UNIVERSITY OF ALABAMA AT BIF</td>
<td>-2</td>
<td>18</td>
<td>8</td>
<td>164</td>
<td>367</td>
</tr>
</tbody>
</table>
Qualifying Variables

• When choosing variables from multiple-record files, the user must first specify the qualifying variables

• The user’s choice tells PAS which records to select for the analysis
Level of student is the qualifying variable that lets you to choose. For example, choose Full-time students total and Part-time students total.

For example, in order to select Hispanic students, you must specify which Hispanic students. All Hispanic students? Full-time Hispanic students? Undergraduate Hispanic students?

Level of student is the qualifying variable that lets you to choose. For example, choose Full-time students total and Part-time students total.
Then select Hispanic men and Hispanic women.
The resulting PAS file will contain a value for each possible combination:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Full-time Hispanic men</th>
<th>Full-time Hispanic women</th>
<th>Part-time Hispanic men</th>
<th>Part-time Hispanic men</th>
</tr>
</thead>
<tbody>
<tr>
<td>Institution 1</td>
<td>1264</td>
<td>2126</td>
<td>122</td>
<td>208</td>
</tr>
<tr>
<td>Institution 2</td>
<td>976</td>
<td>1182</td>
<td>88</td>
<td>111</td>
</tr>
<tr>
<td>Institution 3</td>
<td>1230</td>
<td>1939</td>
<td>54</td>
<td>52</td>
</tr>
<tr>
<td>Institution 4</td>
<td>803</td>
<td>1163</td>
<td>45</td>
<td>54</td>
</tr>
</tbody>
</table>
5. Frequently Used/Derived Variables

- Permanent “calculated variables
  - frequently used “institution” variables, e.g., total enrollment, tuition and fees
  - data feedback report variables
  - College Affordability Index variables

- Developed by NCES from existing IPEDS survey variables

- Available beginning in 2002
Analysis with the PAS

Review of Options
Types of Reports Available

• Ranking report
  – One variable, with values sorted high to low

• Institutions Data report
  – Multiple variables, perhaps from multiple files

• Statistical Summary report
  – Basic descriptive statistics, with optional graphs

• Report Templates
  – Prepackaged formats

• Forms Facsimile
  – Survey data, presented in survey grid format
Peer Analysis Reporting Page
You can choose any of the following reporting options.

Some queries you submit, especially those containing calculated variables, may take a while to execute. Please be patient.

- **Ranking Report**: This option gives you a list of institutions containing the LinchPin and the comparison group, ranked by the value of the variable of your choice. The LinchPin will be displayed in a different color. *You can select this option only after you have selected a comparison group.*
- **Institutions Data**: This option allows you to choose a number of variables and it will list the values for those variables for the LinchPin and each of the comparison group institutions. The LinchPin will be displayed at the top. *You can select this option only after you have selected a comparison group.*
- **Statistical Summary Report**: This option allows you to choose a number of variables, calculate summary measures from your comparison group, and compare with your LinchPin institution. *You can select this option only after you have selected a comparison group.*
- **Report Templates**: This option allows you to generate packaged reports for your LinchPin and comparison group institutions.
- **Forms Facsimile**: This option allows you to print survey data for the LinchPin or any comparison group institution from the PAS in a format similar to the IPEDS printed forms. A file export option is also available.
Ranking Report

Ranking by: Total employees (Full time, Primarily instruction total, EAP2005)

<table>
<thead>
<tr>
<th>Rank</th>
<th>UNITID</th>
<th>Institution Name</th>
<th>State</th>
<th>Variable Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>122931</td>
<td>Santa Clara University</td>
<td>CA</td>
<td>447</td>
</tr>
<tr>
<td>2</td>
<td>121150</td>
<td>Pepperdine University</td>
<td>CA</td>
<td>365</td>
</tr>
<tr>
<td>3</td>
<td>122436</td>
<td>University of San Diego</td>
<td>CA</td>
<td>359</td>
</tr>
<tr>
<td>4</td>
<td>122612</td>
<td>University of San Francisco</td>
<td>CA</td>
<td>348</td>
</tr>
<tr>
<td>5</td>
<td>235316</td>
<td>Gonzaga University</td>
<td>WA</td>
<td>308</td>
</tr>
<tr>
<td>6</td>
<td>123554</td>
<td>Saint Marys College of California</td>
<td>CA</td>
<td>197</td>
</tr>
<tr>
<td>7</td>
<td>209825</td>
<td>University of Portland</td>
<td>OR</td>
<td>186</td>
</tr>
<tr>
<td>8</td>
<td>117946</td>
<td>Loyola Marymount University</td>
<td>CA</td>
<td>Blank</td>
</tr>
</tbody>
</table>

Values are sorted from high to low, with the linchpin institution highlighted.
## Institutions Data

### Graduation Rate by Gender

<table>
<thead>
<tr>
<th>UnitID</th>
<th>Institution Name</th>
<th>Graduation rate, men (DFR2004)</th>
<th>Graduation rate, women (DFR2004)</th>
</tr>
</thead>
<tbody>
<tr>
<td>122436</td>
<td>University of San Diego</td>
<td>72</td>
<td>74</td>
</tr>
<tr>
<td>117946</td>
<td>Loyola Marymount University</td>
<td>72</td>
<td>75</td>
</tr>
<tr>
<td>121150</td>
<td>Pepperdine University</td>
<td>73</td>
<td>80</td>
</tr>
<tr>
<td>122612</td>
<td>University of San Francisco</td>
<td>65</td>
<td>67</td>
</tr>
<tr>
<td>122931</td>
<td>Santa Clara University</td>
<td>84</td>
<td>85</td>
</tr>
<tr>
<td>123554</td>
<td>Saint Marys College of California</td>
<td>65</td>
<td>73</td>
</tr>
<tr>
<td>209825</td>
<td>University of Portland</td>
<td>72</td>
<td>71</td>
</tr>
<tr>
<td>235316</td>
<td>Gonzaga University</td>
<td>75</td>
<td>75</td>
</tr>
</tbody>
</table>

Just the data—no sorts, no highlighting. You can download the data to your hard drive for further analysis using your own software.
Statistical Summary Report

Graduation Rates

Note: The number of institutions that reported data for each of the variables is enclosed in parentheses.

<table>
<thead>
<tr>
<th>Variable Name</th>
<th>LinchPi n Value</th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Standard Deviation</th>
<th>25 Percentile</th>
<th>Median</th>
<th>75 Percentile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduation rate, total cohort(DFR2004)(7)</td>
<td>73</td>
<td>66</td>
<td>85</td>
<td>74</td>
<td>5.98</td>
<td>70</td>
<td>74</td>
<td>77</td>
</tr>
</tbody>
</table>

Optionally, you can generate the type of graph used in the ExPT.
Fifteen report templates are already in place, with more being added regularly. Check the list of templates often! This is a quick way to get a nice-looking report with little effort.
### Employees by Assigned Position - full-time (excluding medical schools) as of November 1, 2004

<table>
<thead>
<tr>
<th>Primary function/occupational activity (mutually exclusive categories)</th>
<th>Faculty status</th>
<th>Without faculty status</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Tenured</td>
<td>On tenure track</td>
<td>Not on tenure track/no tenure system</td>
</tr>
<tr>
<td>Primarily instruction</td>
<td>209</td>
<td>102</td>
<td>29</td>
</tr>
<tr>
<td>Instruction combined with research/public service</td>
<td>3</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Primarily research</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Primarily public service</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Executive/administrative/managerial</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Other professional (support/service)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Technical/paraprofessional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clerical and secretarial</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skilled crafts</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service/maintenance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>212</td>
<td>107</td>
<td>29</td>
</tr>
</tbody>
</table>

IPEDS data in the format originally submitted. But remember that data in four surveys have been perturbed!
Exercises

• Upload your saved comparison group
• View your institution’s ‘Completions’ report for 2005 using forms facsimile
• Display 5 years of total enrollment data by using the enrollment report template
• Display 4 years of financial aid data by using the student financial aid report template
Other PAS Features
Master Variables List (MVL)

- Stores all variables used in a session
- Accessible through Main Menu → Session Summary
- Lists can be saved to your hard drive with an .mvl extension
The Master Variable List (MVL)

List of variables available when constructing comparison groups, defining calculated variables, or running reports.

- All variables selected are added to this master list;
- Makes it easy to select the same variables for multiple activities.
- Any calculated variables you’ve defined and any IPEDS survey variables you’ve chosen will appear on this master list.
- You may modify the MVL by adding or deleting variables from your master list
- You can save your MVL to your hard drive and retrieve it for subsequent sessions.
Calculated Variables

- Three types:
  - Summation
  - Difference
  - Ratio
- Can be built from IPEDS variables
- Can be built from calculated variables
- Can be saved to your hard drive as part of a Master Variables List
Support During Your Session

- Session Summary
  - via Main Menu
- On-line User Manual
  - can be printed
- Help buttons
  - available on most pages
- Info buttons
  - define variable characteristics
Sneak Peek: The “New” PAS!!

http://demos.inovas.net/ipedspas2/
Exercises

• Which California public institutions have the highest endowments?

• For all schools in your comparison group, find the average salaries of full-time instructional faculty by rank and the number of faculty in each rank. Also report the overall average salary and total number of faculty.
Want More Exercises?

http://www.sandiego.edu/irp/ipeds/PASexercises.pdf

- These exercises are dated, but they’ll give you practice in answering questions with PAS.
- The exercises will be revised after the New PAS is released.
Questions?
Comments?
Feedback?

Cel Johnson
Cel@SanDiego.edu