NSC Data Use: California Community Colleges

Patrick Perry
Vice Chancellor, Tech., Research & Info. Systems, CCCCCO
Member, NSC Advisory Board
Transfer Tracking: Evolution

- CCC’s have great interest in transfer
  - CC’s given option to track transfers & generate transfer rate
  - CCCC has subscription agreement w/colleges to produce IPEDS reports
  - Matches w/CSUOC & UCOP ensued for GRS cohorts
- But what about ISP’s and OOS’s?
Transfer Tracking: Evolution

- State: Annual Report on “Persistently Low Transfer Rate Colleges”
  - Led to creation of systemwide transfer rate methodology
    - (Attend Wednesday presentation #517)
  - Some colleges transfer more to ISP’s and OOS than others—not fair to them to only count UC & CSU
Transfer Tracking: Evolution

- National Student Clearinghouse data match helped solve both issues
- CO led push to get NSC membership from 20 to 100+ today
  - Accountability helps!
- As a system, we negotiated master “Transfer Track” agreement w/NSC
At first we only sent cohorts to be matched (first-time students), but...

We had other questions asked that looked at other cohorts

We then began sending annual match files of all students in system from 93-present

• 15 million records annually

Must be performed ANNUALLY!
Data Match logistics

- We receive back matches and combine with CSU/UC direct cohort matches
- The “Transfer Bucket”
  - Dump annual matches into the “bucket” and run algorithm that returns unique SSN-Destination College where transfer date=MIN
  - SSN-FICE is unique key
  - IPEDS-IC file is FICE lookup table
Data Match Uses: Cohort Studies

- Data are then used as transfer source info for all cohort studies (incl. IPEDS-GRS, PLTC, or any other program eval. or outcome study we perform)
NSC Data: Cohort Studies

- NSC matches work well for cohort analysis
  - Did student enroll elsewhere? What segment?
  - But...beware of “time to transfer” studies (limitation)
Counting Transfer: Of the students Starting in Year X, How many Ended Up Transferring? (Cohort Analysis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Transfer 95-96</th>
<th>1 year</th>
</tr>
</thead>
<tbody>
<tr>
<td>1994-1995</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 years Transfer 96-97

3 years Transfer 97-98

4 years Transfer 98-99

5 years Transfer 99-00

6 years Transfer 00-01

Basic Rate: [All Who Transferred]
[All Who Started]
Data Match Uses: Snapshots

- Data are less useful for deriving annual volumes/counts of transfers due to date of recipient institution entering NSC
Counting Transfer: How Many Transferred this Year? (Snapshot Analysis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Transfer Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1993-1994</td>
<td>some transfer, some do not</td>
</tr>
<tr>
<td>1994-1995</td>
<td>took 6 years</td>
</tr>
<tr>
<td>1995-1996</td>
<td>took 5 years</td>
</tr>
<tr>
<td>1996-1997</td>
<td>took 4 years</td>
</tr>
<tr>
<td>1997-1998</td>
<td>took 3 years</td>
</tr>
<tr>
<td>1998-1999</td>
<td>2 years</td>
</tr>
<tr>
<td>1999-2000</td>
<td>1 yr.</td>
</tr>
<tr>
<td>2000-2001</td>
<td>1 yr.</td>
</tr>
</tbody>
</table>
Counting Transfer:
Caveats of NSC Data Matching

Cohort: Transfer Counted within 6 years—do not perform "Time To Transfer" studies!

Snapshot: Transfer counted in wrong year—overcounts in first year of NSC membership.
Data Match Uses: Where Did They Go?

- Imperfect but still enlightening detail on where our students transfer
- Transfer Choices by Ethnicity Study
  - Combines Transfer Rates and Transfer Location analysis
  - Of all the students in a cohort (by ethnicity), what % went to UC? CSU? ISP? OOS?
## Raw Transfer Rates by Ethnicity and Segment for Cohort 9697

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>% No Xfer</th>
<th>% Xfer</th>
<th>% to UC</th>
<th>% to CSU</th>
<th>% to In-State Private</th>
<th>% to Out of State</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>55.40%</td>
<td>44.60%</td>
<td>17.93%</td>
<td>60.66%</td>
<td>11.04%</td>
<td>10.38%</td>
</tr>
<tr>
<td>Black</td>
<td>64.08%</td>
<td>35.92%</td>
<td>11.46%</td>
<td>51.18%</td>
<td>18.13%</td>
<td>19.24%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>68.61%</td>
<td>31.39%</td>
<td>15.12%</td>
<td>67.68%</td>
<td>12.13%</td>
<td>5.07%</td>
</tr>
<tr>
<td>Asian</td>
<td>43.43%</td>
<td>56.57%</td>
<td>37.00%</td>
<td>49.93%</td>
<td>9.19%</td>
<td>3.88%</td>
</tr>
<tr>
<td>Pacific Islander</td>
<td>58.85%</td>
<td>41.15%</td>
<td>13.06%</td>
<td>50.86%</td>
<td>20.96%</td>
<td>15.12%</td>
</tr>
<tr>
<td>Filipino</td>
<td>56.29%</td>
<td>43.71%</td>
<td>17.75%</td>
<td>63.23%</td>
<td>16.18%</td>
<td>2.85%</td>
</tr>
<tr>
<td>Native American</td>
<td>67.25%</td>
<td>32.75%</td>
<td>18.98%</td>
<td>58.07%</td>
<td>12.75%</td>
<td>10.20%</td>
</tr>
<tr>
<td>Other</td>
<td>51.95%</td>
<td>48.05%</td>
<td>24.52%</td>
<td>56.39%</td>
<td>12.79%</td>
<td>6.30%</td>
</tr>
<tr>
<td>Total</td>
<td>57.43%</td>
<td>42.57%</td>
<td>21.19%</td>
<td>59.04%</td>
<td>11.69%</td>
<td>8.09%</td>
</tr>
</tbody>
</table>
Summary

- NSC “Transfer Track” very beneficial to CCC system efforts
- NSC recognizes potential of their database for research purposes—now have 2 researchers on their Advisory Committee
Summary

- Create your own mini Clearinghouse!!
- Send up everybody you can, get matches back, do this every year, and you will have your own source locally
Services You Need

People You Trust

May 2005

Dr. Jeff Tanner, Vice President
National Student Clearinghouse
703-742-4225
tanner@studentclearinghouse.org
What does the National Student Clearinghouse do?
We collect student enrollment completion loan borrower information
We provide data to authorized requestors
Clearinghouse Growth

Institutional Participation

Over 2,800 Colleges and Universities

July 1993 to July 2004
Constantly Growing Database

14+ Million Active + 50+ Million Historical = 64+ Million Individual Student Records

Active records represent over 91% of All Higher Education Enrollments
Database Components

The Data We Receive is:

**Complete** – All enrolled students

**Current** - Data is received at least 3 times each enrollment period

**Comprehensive** - We are not bound by state boundaries or by institutional sponsorship
Services

We can tell you things like . . .

where your non-applicant recruits or your admitted but non-enrolled students actually attended

if your current students are enrolling at another institution concurrently

if your former, non-graduated students transferred elsewhere and if they graduated

if and where your graduated students went on to graduate school
Honesty

We must confess that our data has the potential to create more questions than it answers
Moved from State 24%

Remained in Nebraska 76%
University of Nebraska - Lincoln

Attended 4 year 53%

Attended 2 year 47%
Providing Unit Data

For those who transfer out:

- Are majors equally represented?
- Are GPA’s evenly distributed?
- Is gender representation equal?
- What about ethnic groups?
Providing Unit Data

For those who transfer out:

• Are class standings evenly distributed?
• Do socio-economic factors tell us anything?
• Are non-residents transferring out of state?
• Do transfer-outs graduate elsewhere?
Services

All you need to do is . . .

Sign up for the DegreeVerify program *(free)*
Participate in the StudentTracker program
Participation Principles

To *receive* data you must *share* comparable data

Participation costs are paid by data users *not* data providers
Request File

You Provide . . .

Name of student
SSN (if FERPA-compliant)
Birth date
Date of last attendance/Search begin date
Response File

The Clearinghouse returns . . .

**Summary Report**
Contains totals of students enrolled by institution

**Unit Record File**
Contains individual student records (except FERPA blocked records)
## Sample Summary Report

Date: mm/dd/yyyy  
Time: hh:mm

National Student Clearinghouse  
School: Pinnacle University

Summary of Student Level Detail - Analysis of Initial Transfers

<table>
<thead>
<tr>
<th>School</th>
<th>School Name</th>
<th>State</th>
<th>Number</th>
<th>% of Transfer</th>
<th>Number of Degrees</th>
</tr>
</thead>
<tbody>
<tr>
<td>001234-00</td>
<td>Finest State University</td>
<td>XX</td>
<td>315</td>
<td>25%</td>
<td>45</td>
</tr>
<tr>
<td>002345-00</td>
<td>University of Knowledge</td>
<td>XX</td>
<td>210</td>
<td>17%</td>
<td>0</td>
</tr>
<tr>
<td>003456-00</td>
<td>Big Mountain College</td>
<td>XX</td>
<td>176</td>
<td>14%</td>
<td>21</td>
</tr>
<tr>
<td>004567-00</td>
<td>Learned College</td>
<td>XX</td>
<td>109</td>
<td>9%</td>
<td>13</td>
</tr>
<tr>
<td>005678-00</td>
<td>University of Books</td>
<td>XX</td>
<td>92</td>
<td>7%</td>
<td>0</td>
</tr>
<tr>
<td>006789-00</td>
<td>Studious University</td>
<td>XX</td>
<td>78</td>
<td>6%</td>
<td>15</td>
</tr>
<tr>
<td>007890-00</td>
<td>Library College</td>
<td>XX</td>
<td>65</td>
<td>5%</td>
<td>0</td>
</tr>
<tr>
<td>012345-00</td>
<td>Great State University</td>
<td>XX</td>
<td>42</td>
<td>3%</td>
<td>0</td>
</tr>
<tr>
<td>009876-00</td>
<td>Metropolitan State University</td>
<td>XX</td>
<td>35</td>
<td>3%</td>
<td>0</td>
</tr>
<tr>
<td>011111-00</td>
<td>Community College of the County</td>
<td>XX</td>
<td>27</td>
<td>2%</td>
<td>4</td>
</tr>
</tbody>
</table>

Total: 1149  
Number of Degrees: 98
## Unit Record File

- Student identifiers (i.e. name, SSN, DOB you provided)
- New institution name and OPE code
- New institution type (4 yr+, 2 yr, <2 yrs)
- Term begin date
- Multiple new school indicator & sequence number
- Initial and Highest enrolled status (if directory info)
- Graduation status and date
- Degree title
- Major course of study

*For DegreeVerify Schools Only*
What Are The Costs?

Annual subscription fee which covers unlimited use during the year.

Annual fee equals $0.12 (12 cents) times the school’s opening fall headcount enrollment as reported to IPEDS (taken from IPEDS COOL website).

Minimal Computer programming effort to send us degree information.
That’s us in a nutshell!

Questions?