

AMMRL SURVEY: NMR FACILITY BUSINESS MODELS & FUNDING MECHANISMS

ENC AMMRL MEETING
ASILOMAR, CA
APRIL 24, 2006



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BIOMOLECULAR NMR FACILITY



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Official website:

nmr.bsd.uchicago.edu

- equipment, rates, contacts, etc.

Unofficial website:

homepage.mac.com/jkurutz

- facility photos & scale diagrams/layouts
- photos of installed cold probe
- user guides ("Gray Boxes")
- **results of this survey**

Questions

- Facility Type/Operational model

- ☐ • public or private institution?
- ☐ • department? interdepartment organization?
- ☐ • part of a broader core facility?
- ☐ • do you offer service? for a fee?

- Expenses (*Including your own salary + benefits*)

- ☐ • what fraction goes to personnel
- ☐ • what fraction goes to cryogenics? repairs? equipment?...

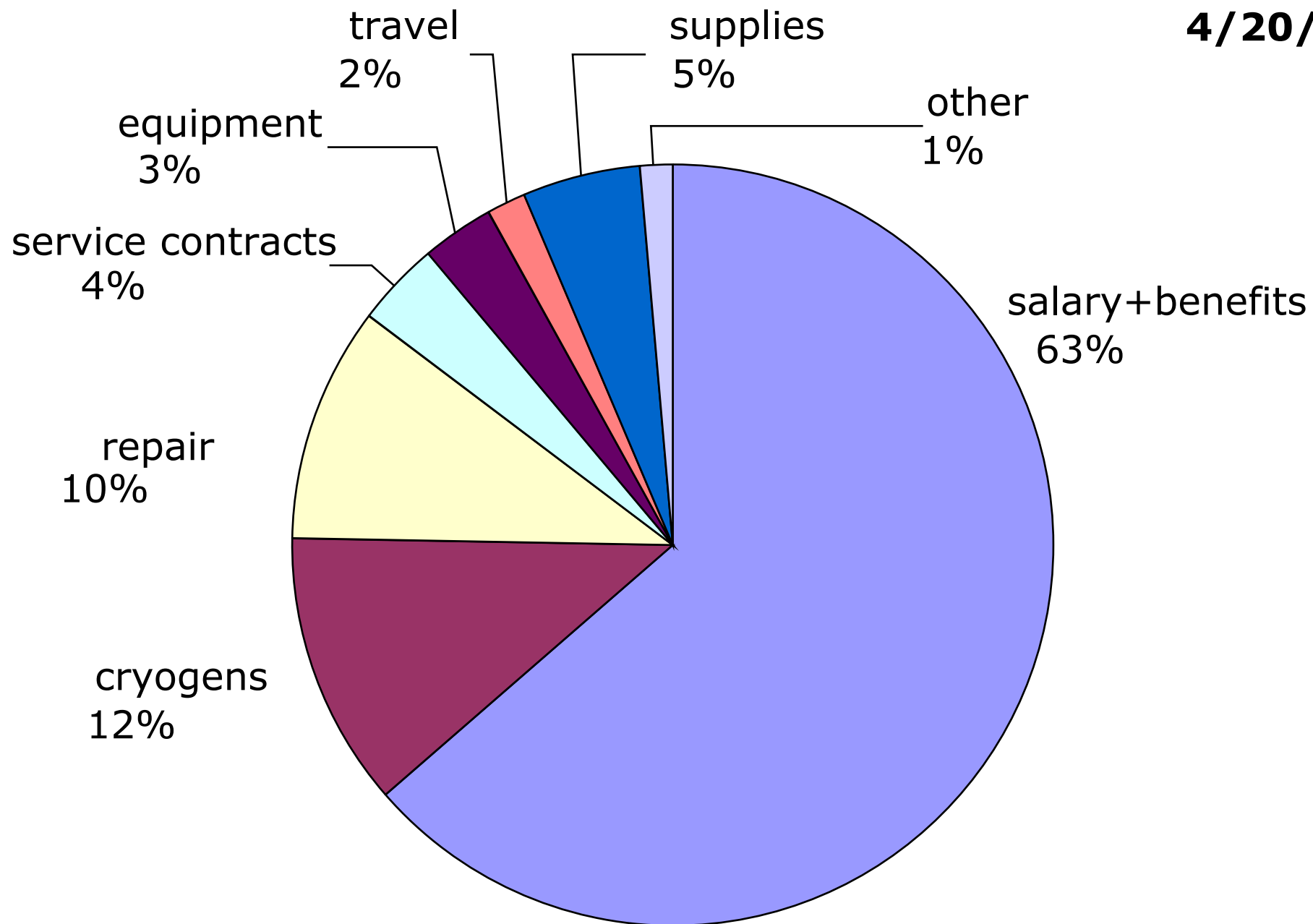
- Revenue

- ☐ • what fraction comes from user fees?
- ☐ • from institution? department?
- ☐ • from PI grants? other?

- Overhead - how much does your institution charge?

Average Expenses

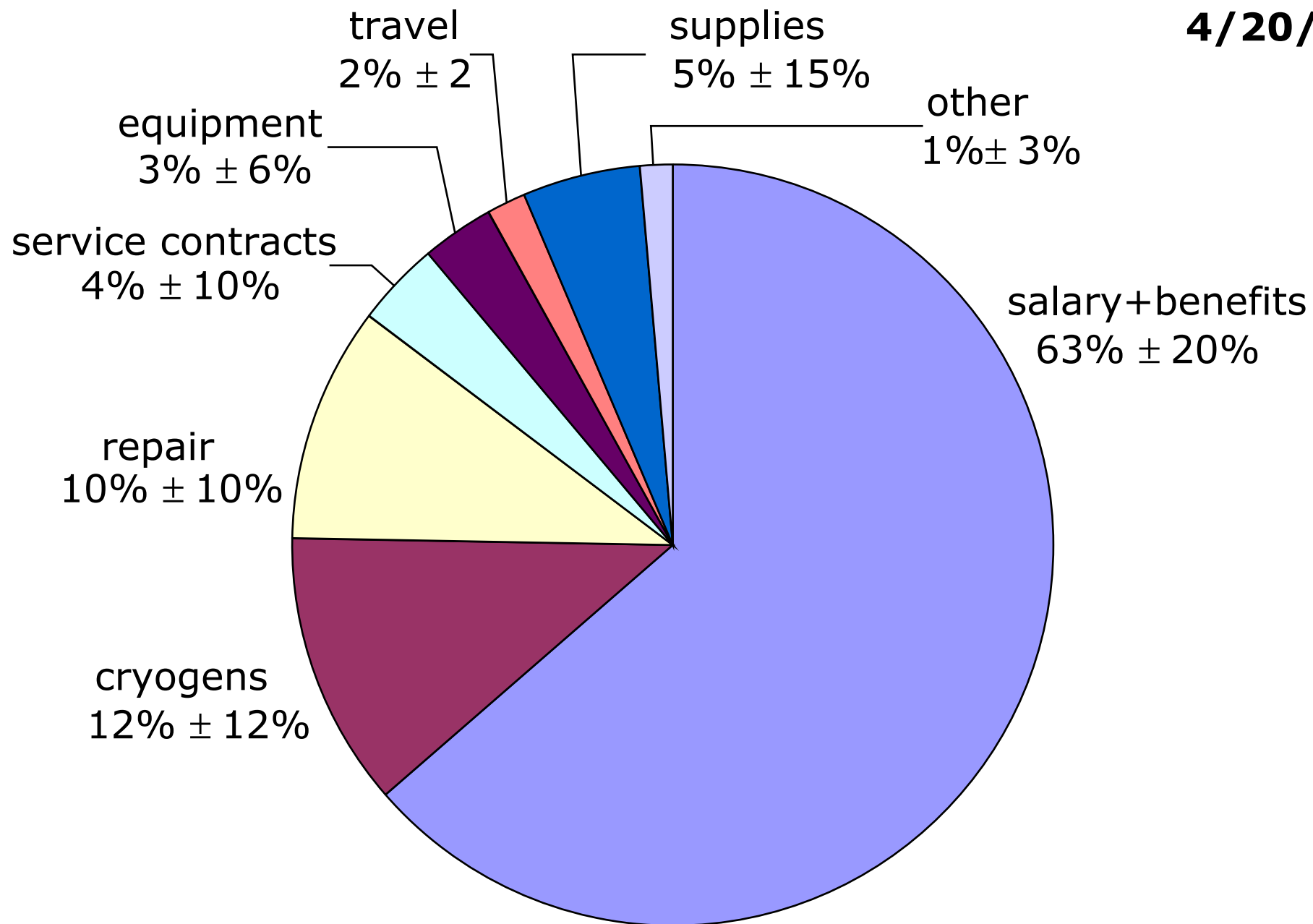
N=45
4/20/06



Average Expenses

(\pm standard deviations)

N=45
4/20/06

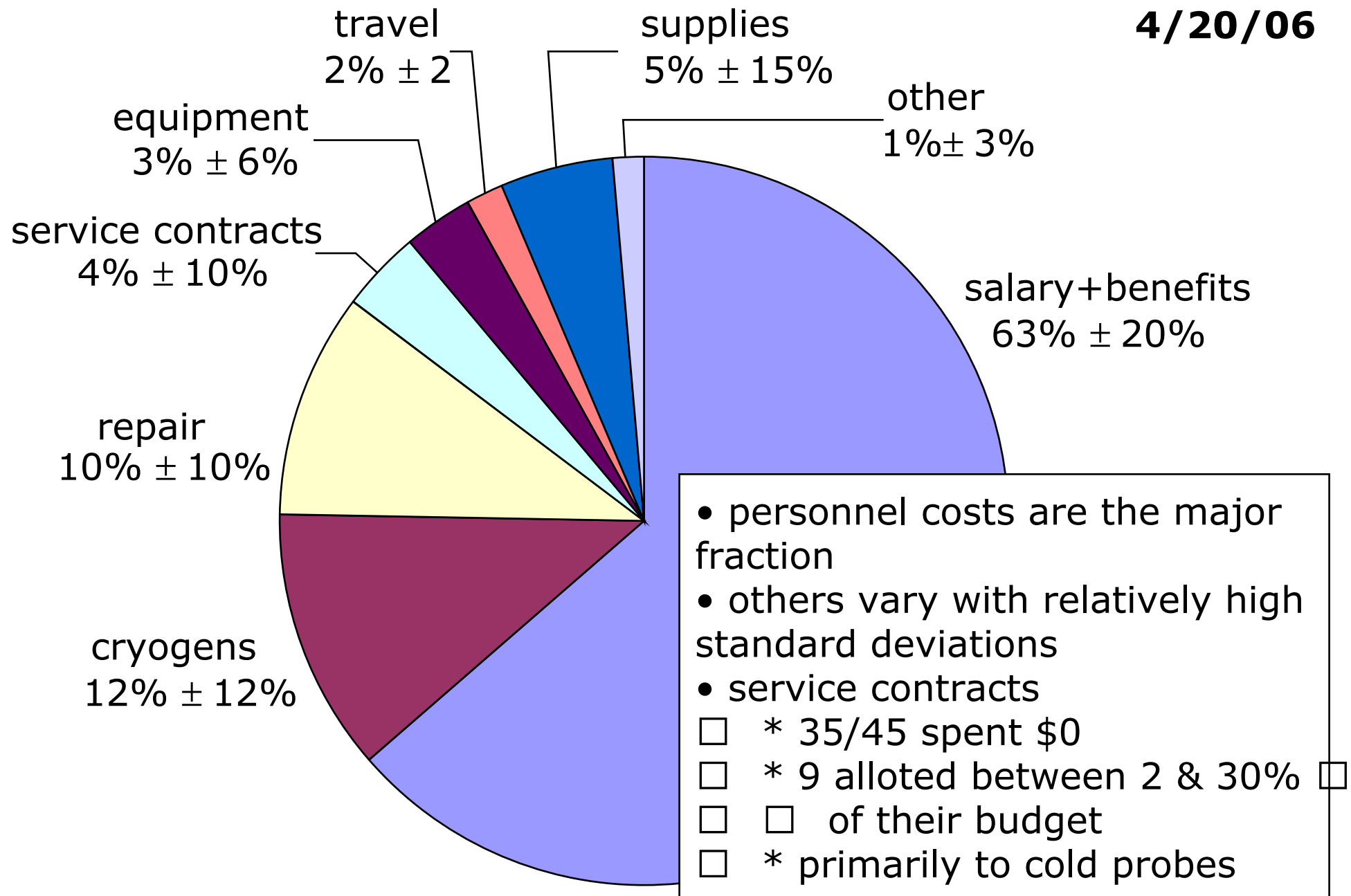


Average Expenses

(\pm standard deviations)

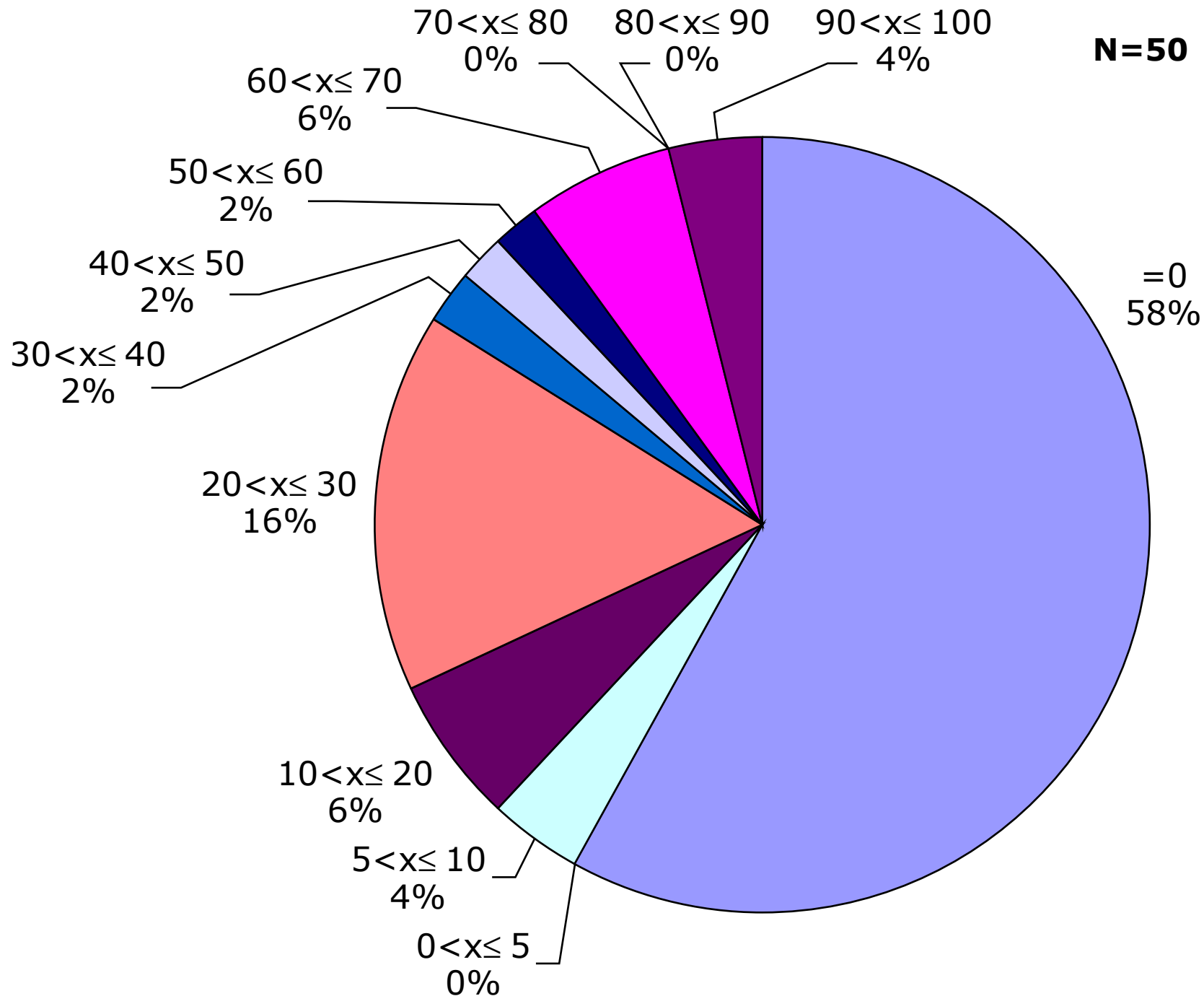
N=45

4/20/06



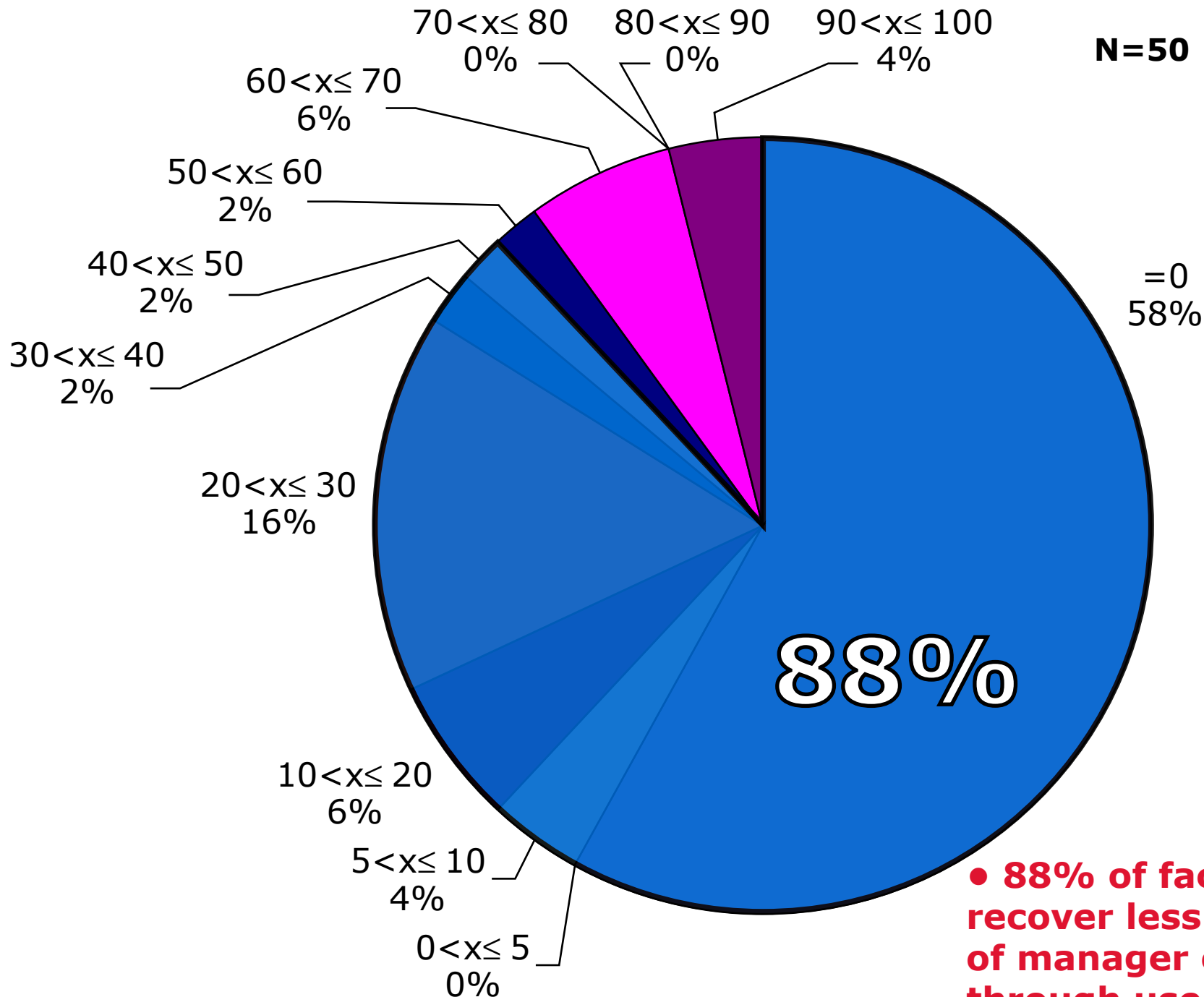
%Manager Salary covered by recharge

N=50 4/20/06



%Manager Salary covered by recharge

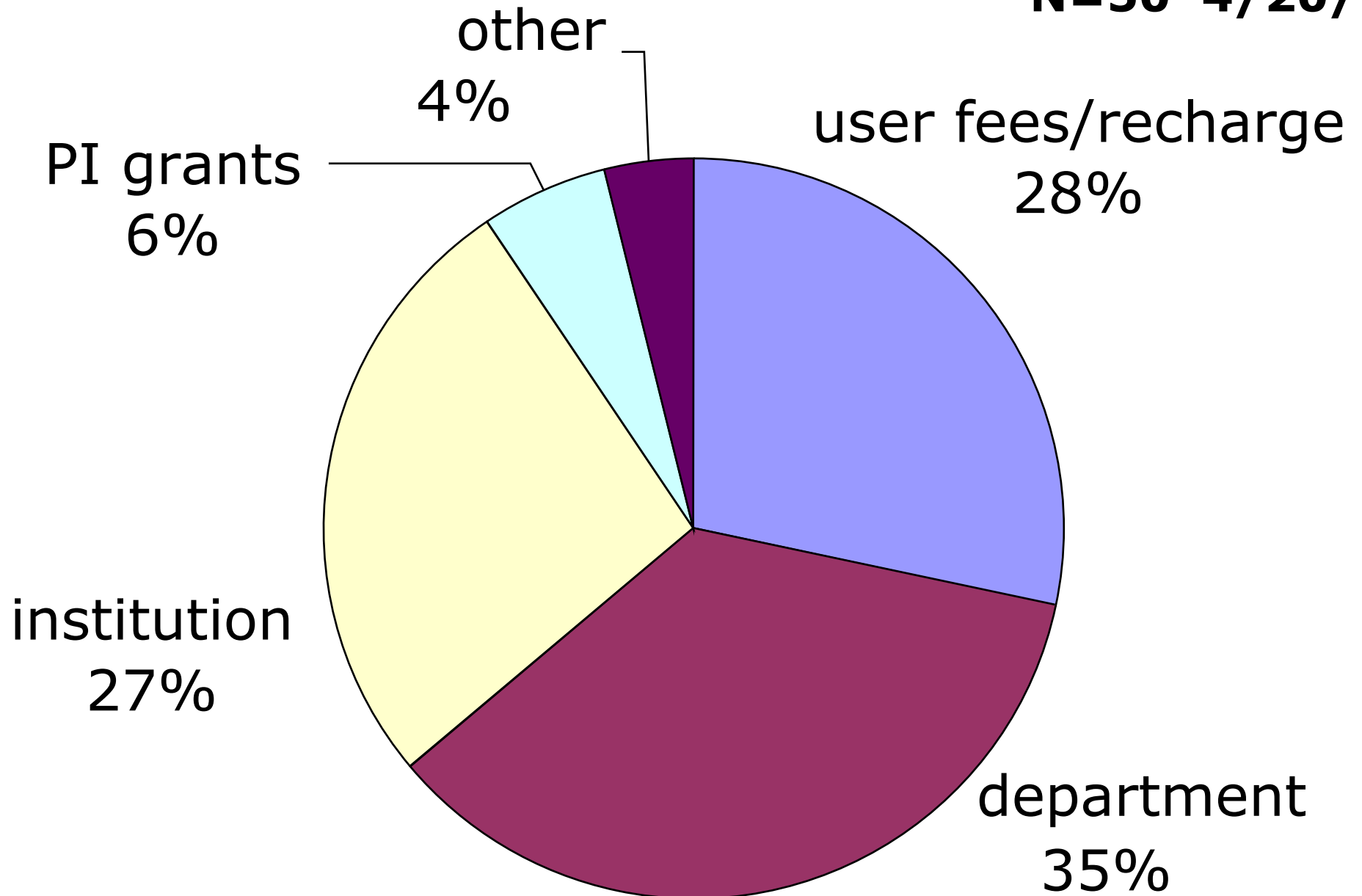
N=50 4/20/06



● 88% of facilities recover less than 50% of manager costs through user fees

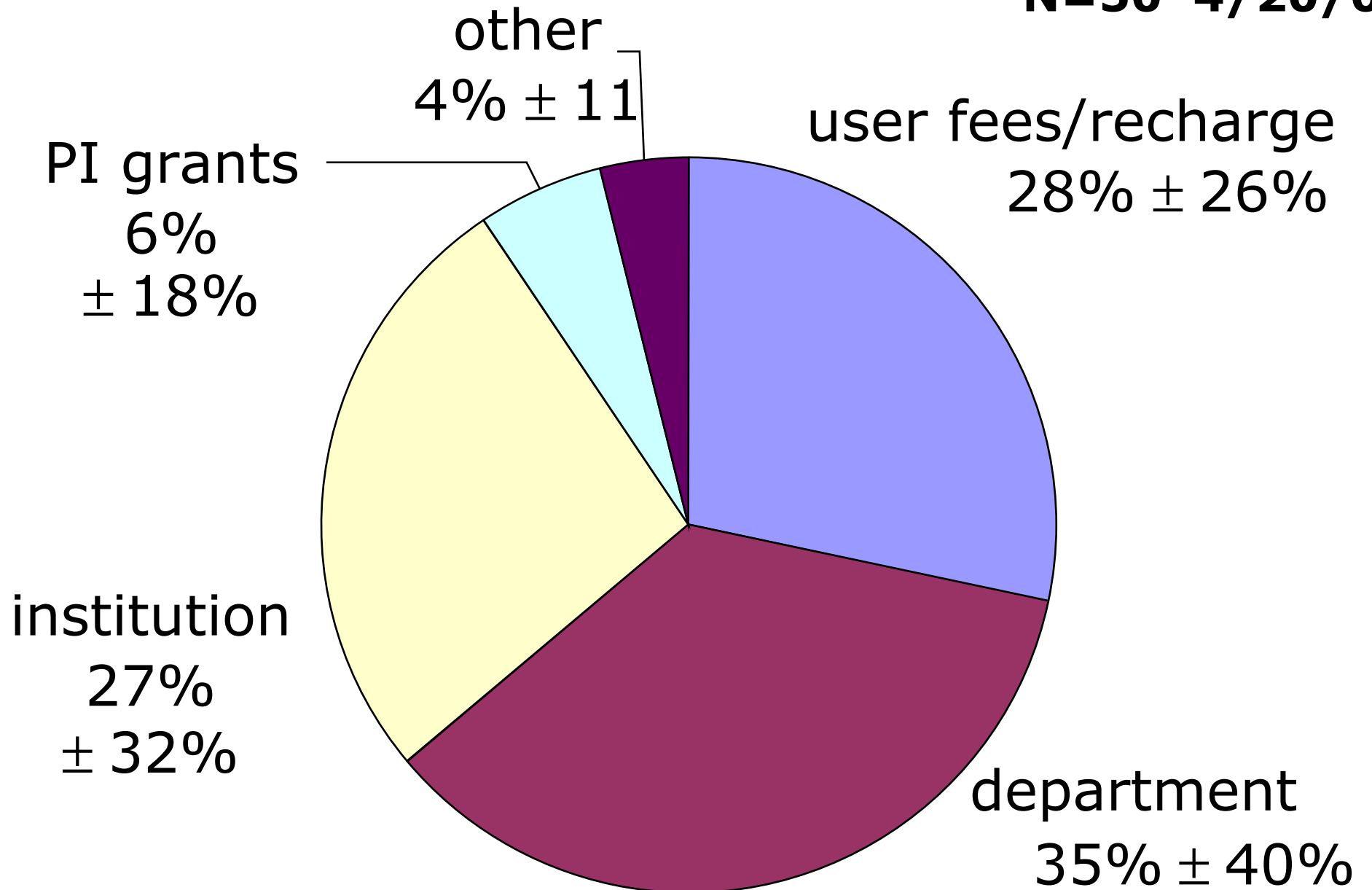
Average Revenues

N=50 4/20/06



Average Revenues (\pm standard deviations)

N=50 4/20/06



Average Revenue

(\pm standard deviation)

N=50 4/20/06

other

4%

user fees/recharge
28% \pm 26%

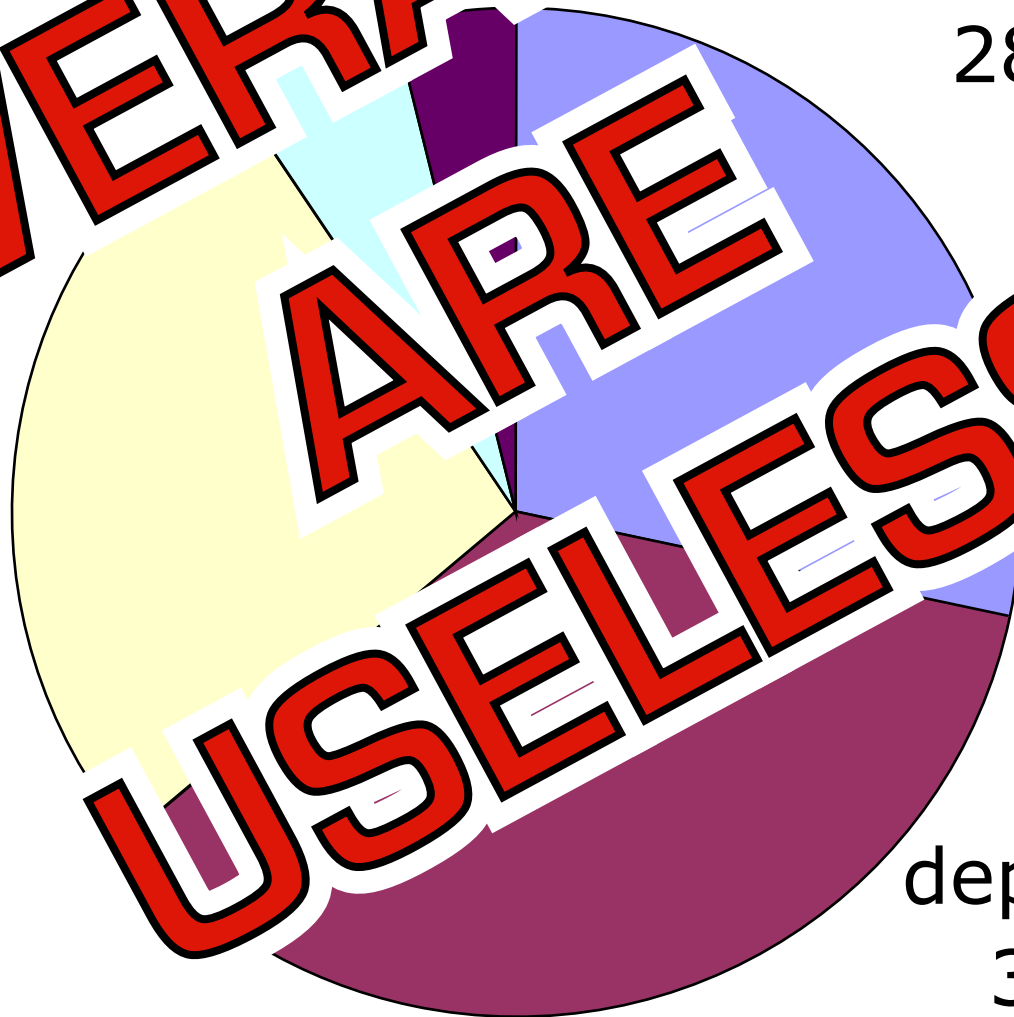
PI grants
6%

1%

institution
27%
 \pm 32%

department
35% \pm 40%

**AVERAGES
ARE
USELESS!**



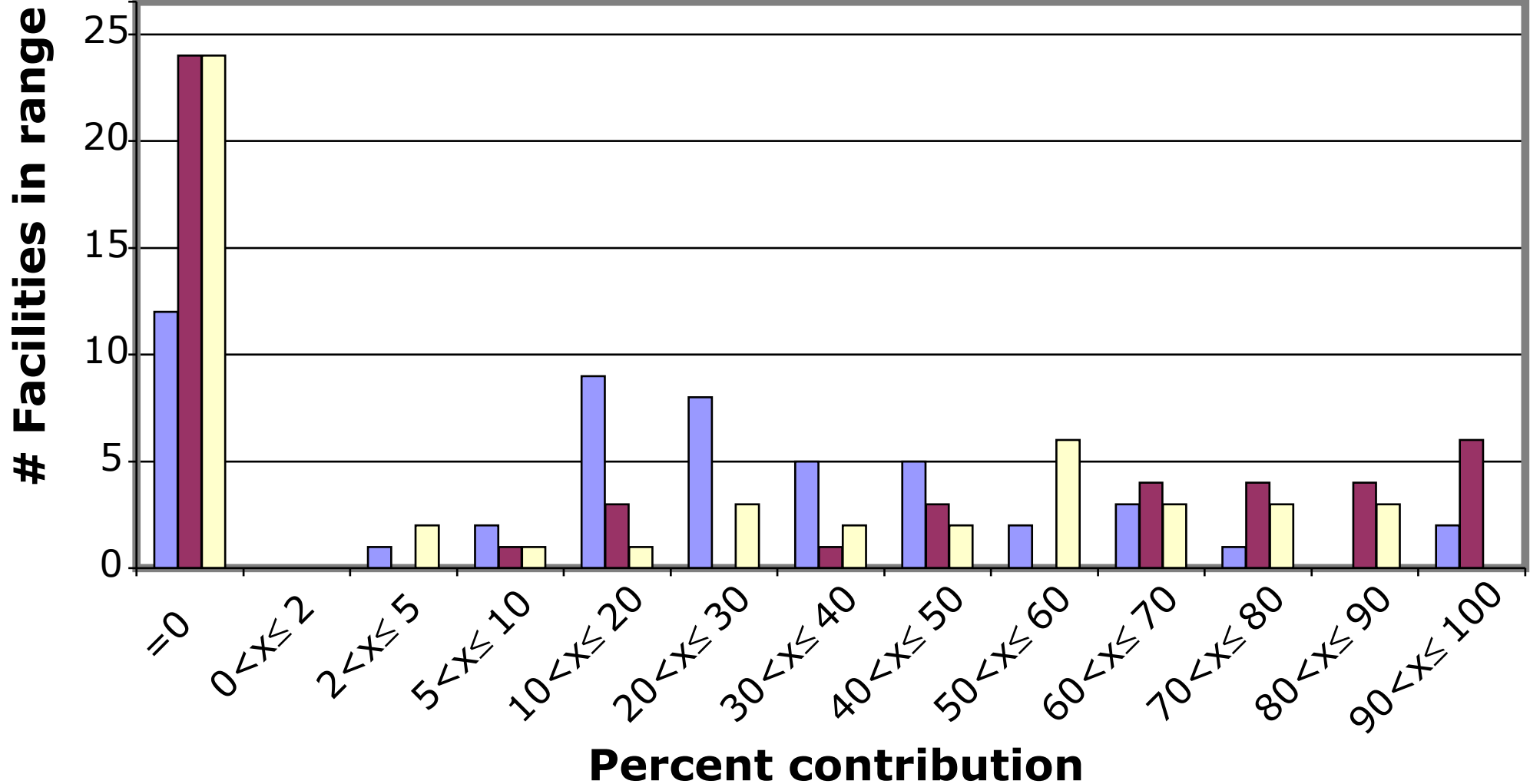
Major Funding Sources

fees

department

institution

N=50
4/20/06



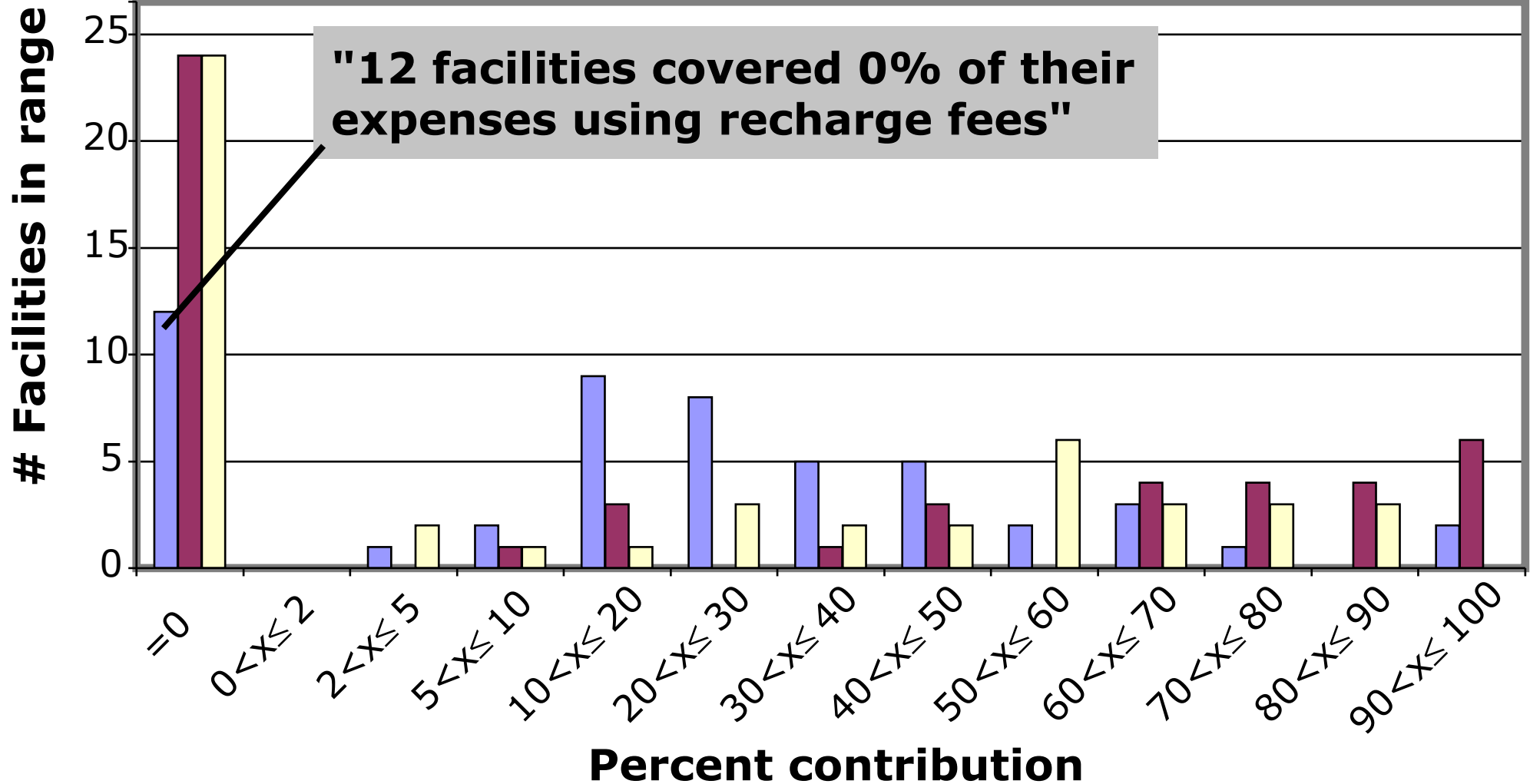
Major Funding Sources

fees

department

institution

N=50
4/20/06



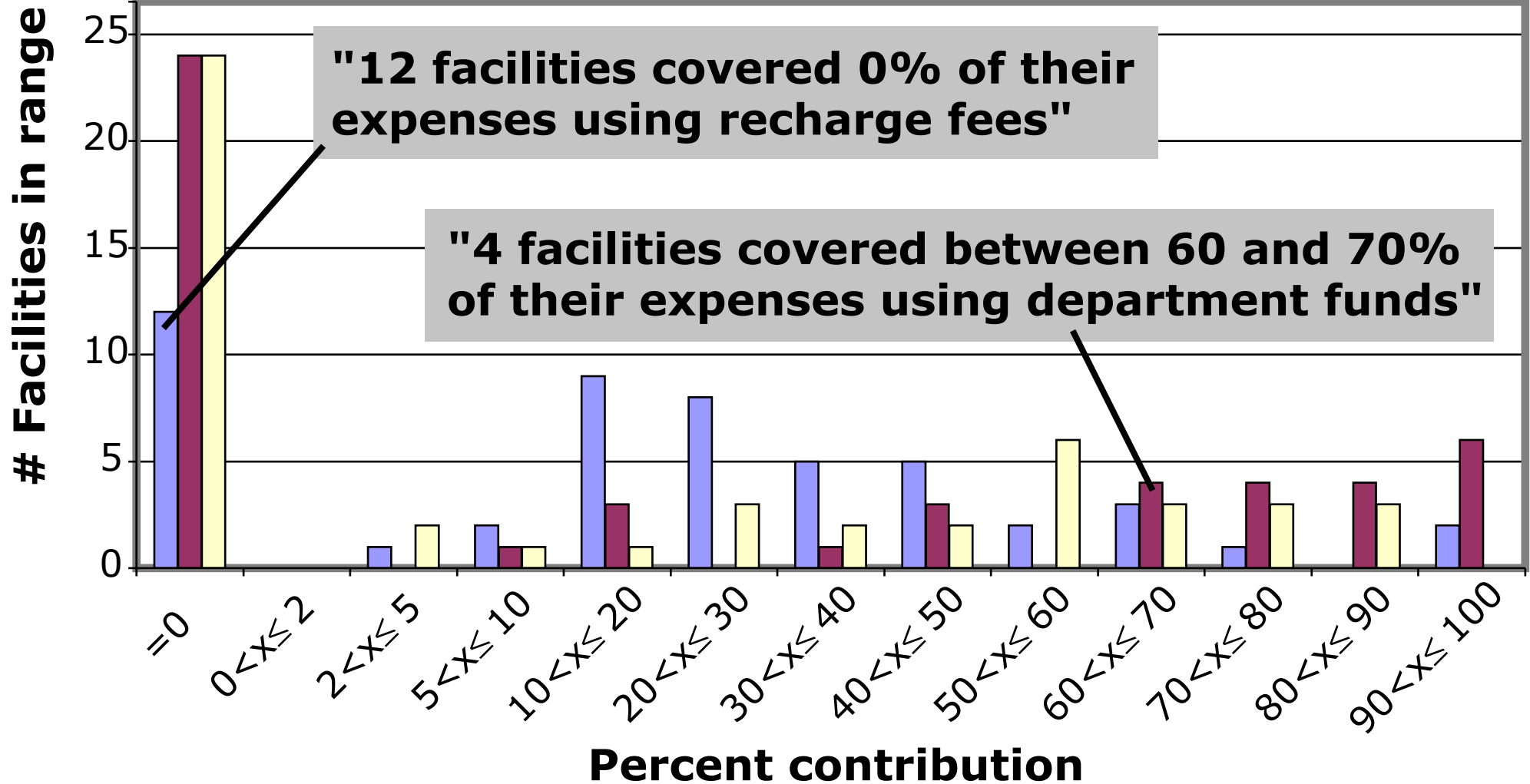
Major Funding Sources

fees

department

institution

N=50
4/20/06



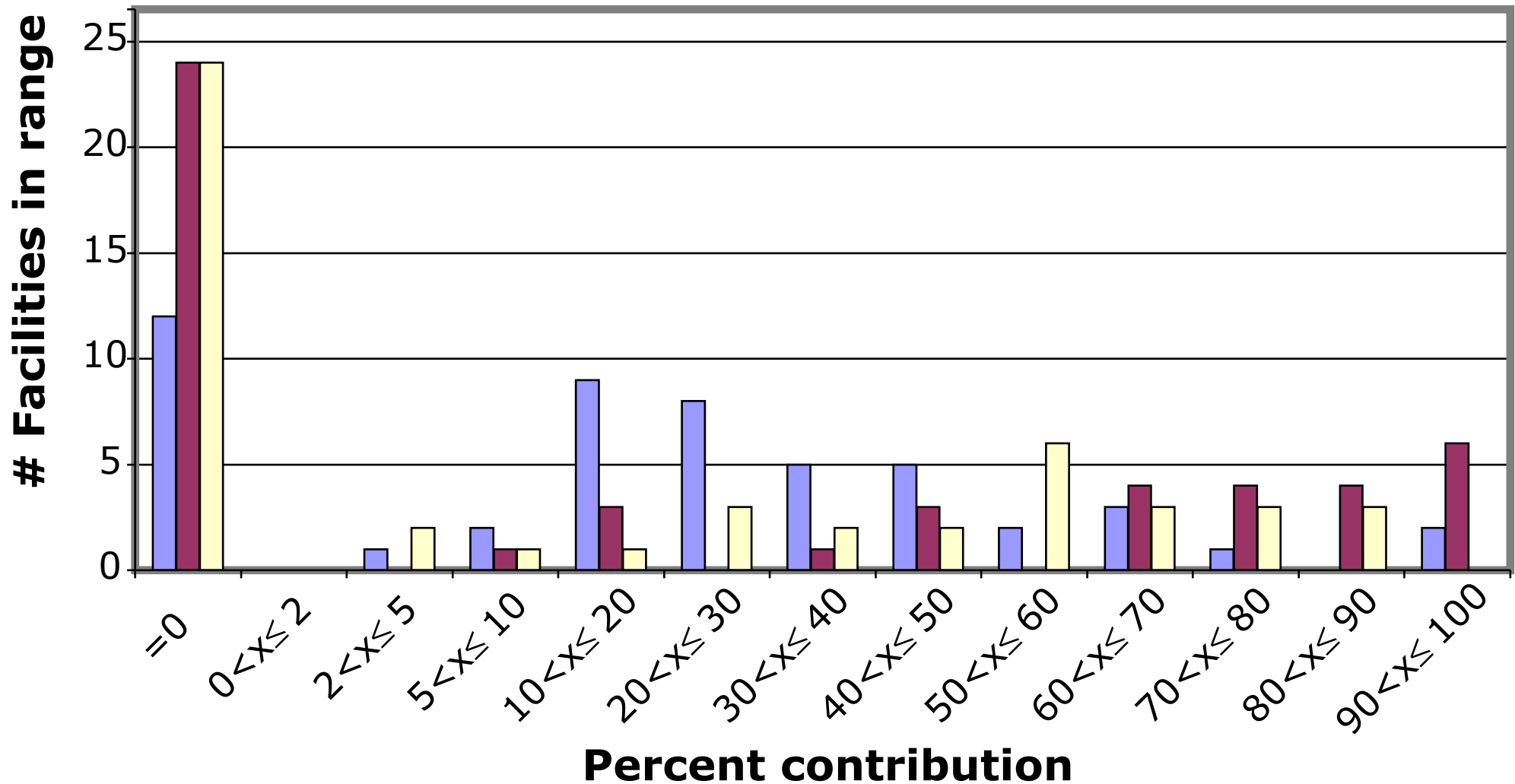
Major Funding Sources

fees

department

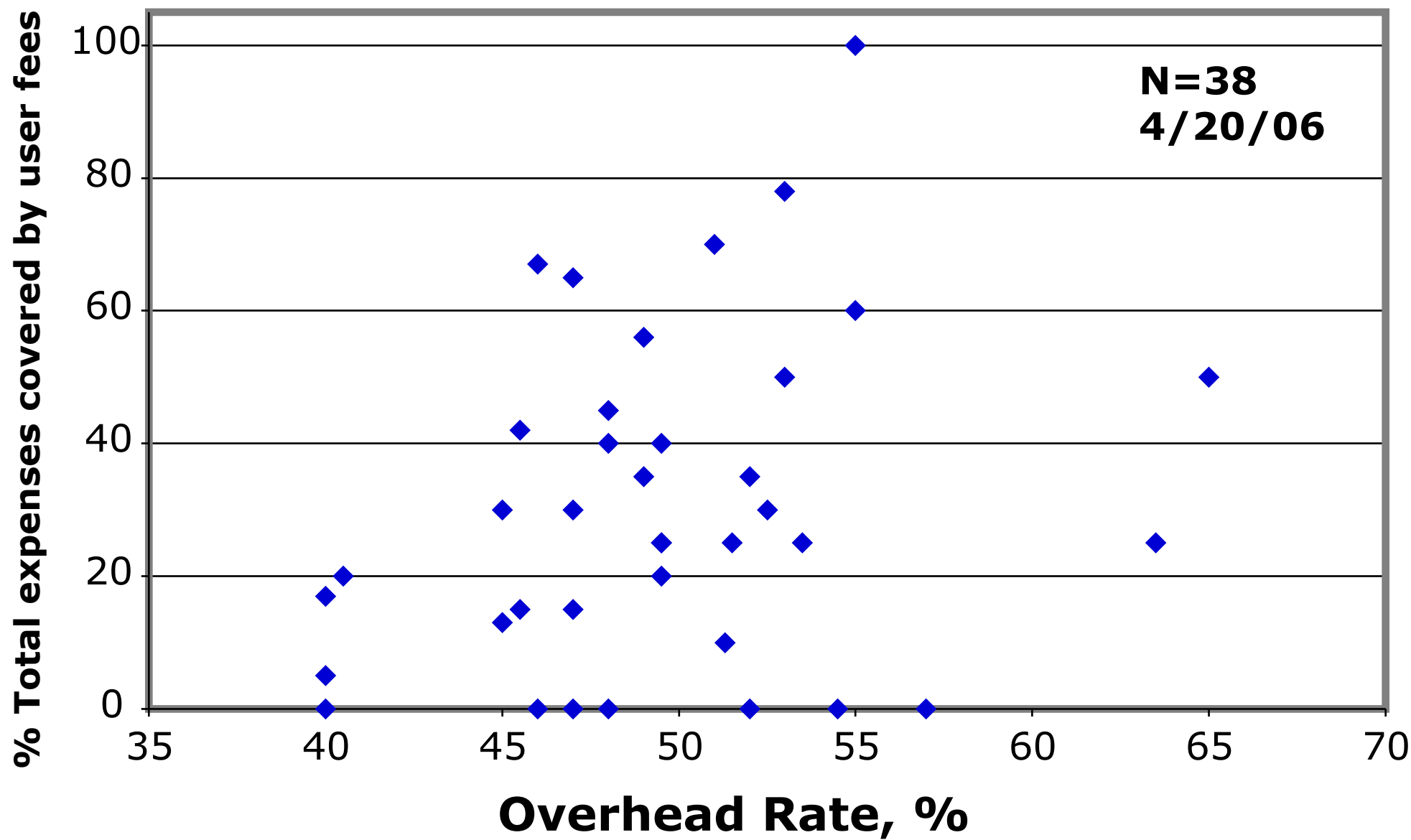
institution

N=50
4/20/06

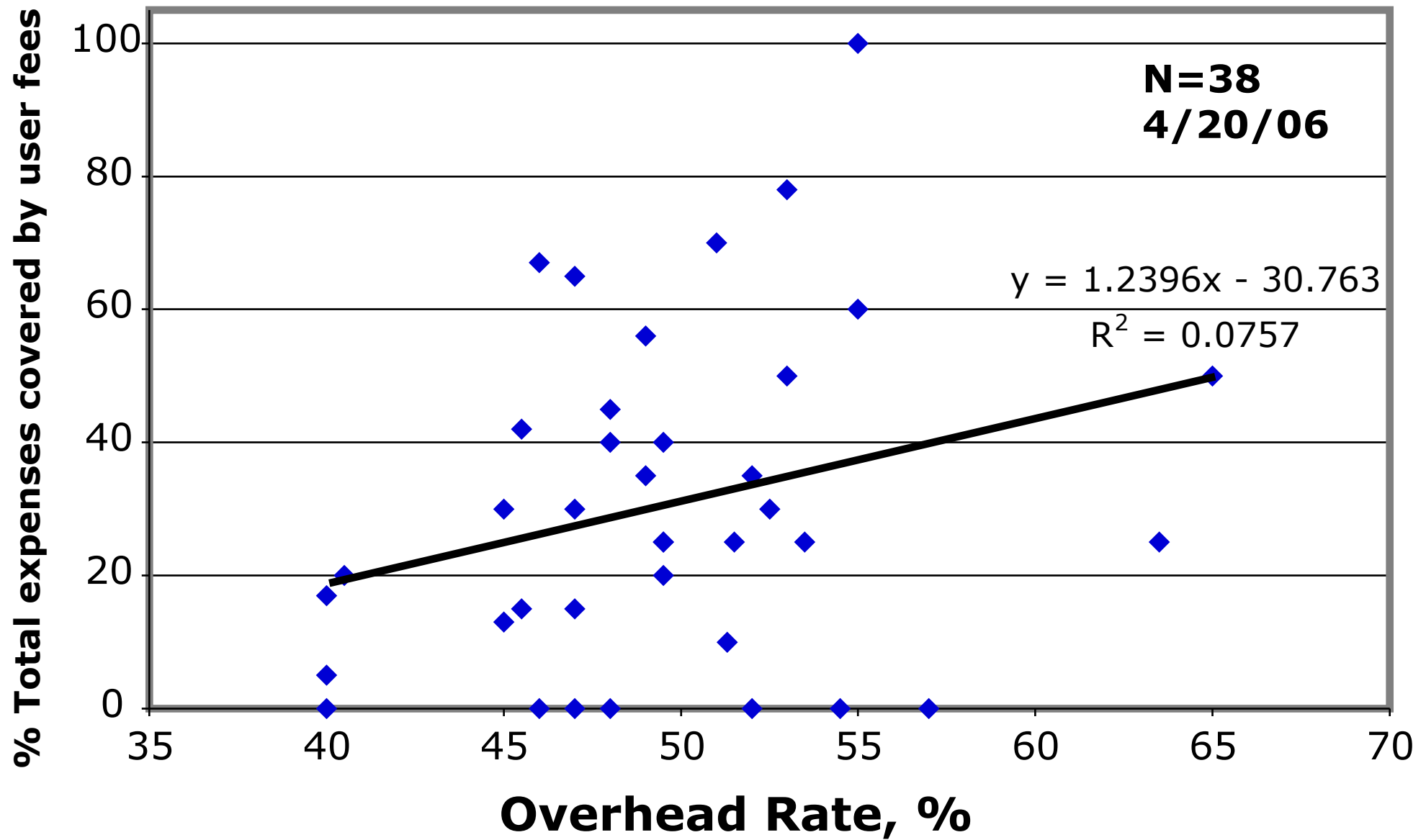


- Few are funded from one lone source
- Virtually all are funded by a combination of two of the three major funding sources

%Reliance on User Fees vs. Grant Overhead Rate

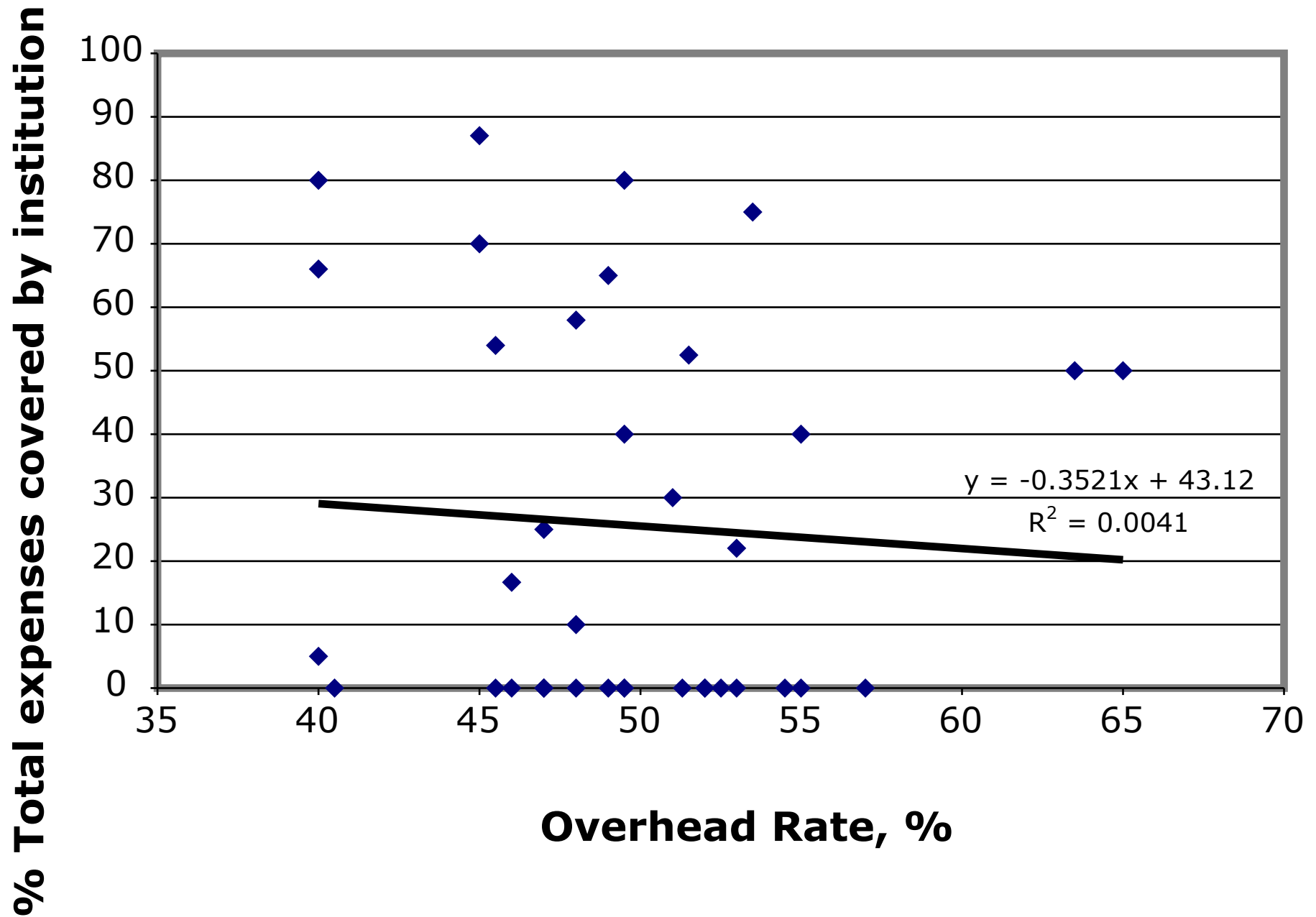


%Reliance on User Fees vs. Grant Overhead Rate



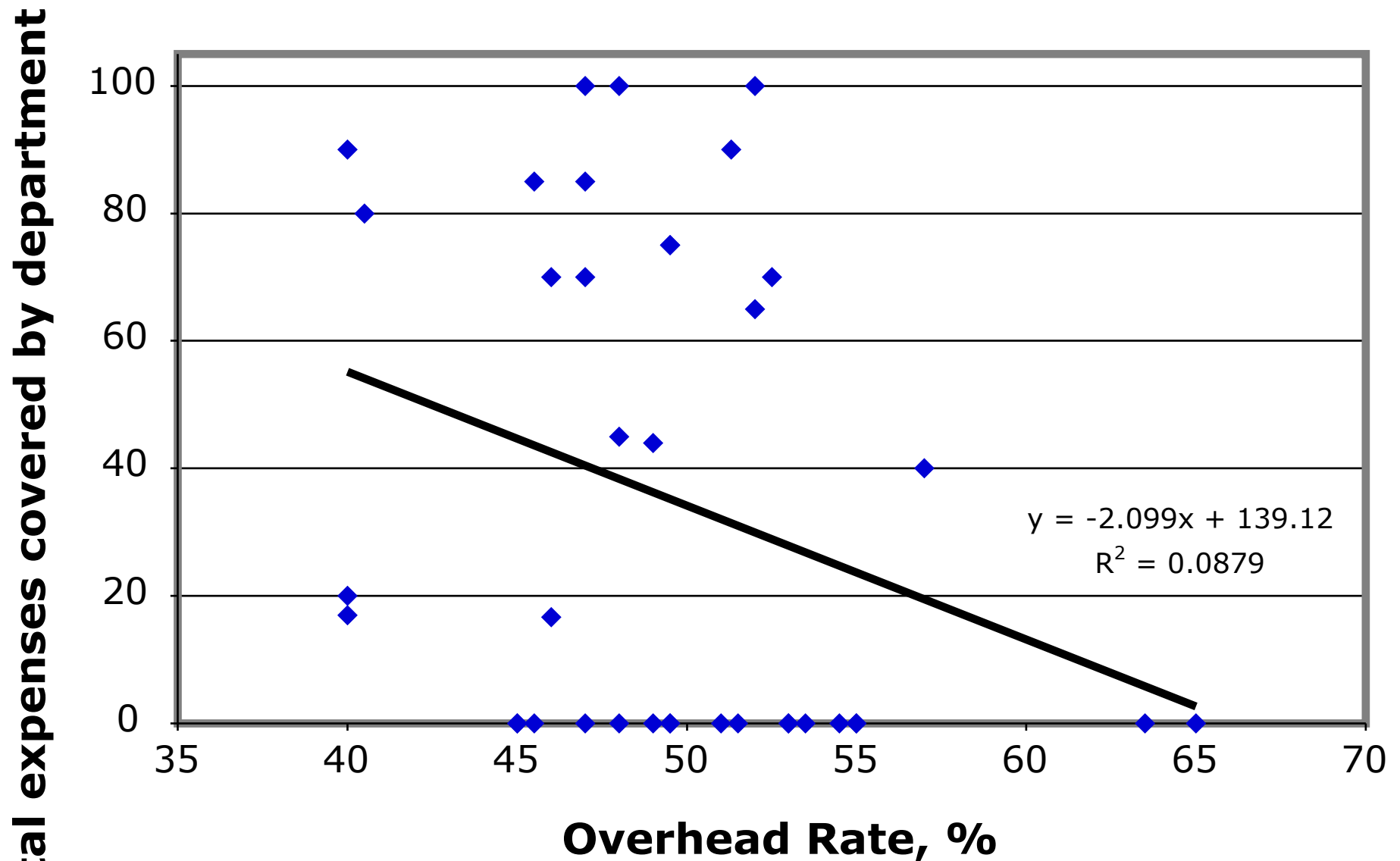
Some places are just more expensive than others

University Support vs. Grant Overhead



Higher overhead translates to lower support

Department Support vs. Grant Overhead



Higher overhead translates to lower support

Action

- Average university overhead in 2005 (*Chron Hi Ed, Aug. 5 2005*)
 - ☐ "top" 100 research institutions: ☐ 51.8%
 - ☐ public universities: ☐ ☐ ☐ ☐ 49.1%
 - ☐ private universities: ☐ ☐ ☐ ☐ 56.7%
 - ☐ ☐
- Small dependence on fees and below-average overhead?
 - ☐ - sit tight & tell faculty how lucky they are
- High fees and low overhead (or vice versa)?
 - ☐ - accept the tradeoff
- High dependence on fees & high overhead?
 - ☐ - determine how much department is funded from
 - ☐ ☐ from overhead charges
 - ☐ - seek equitable funding from whichever entity (univ. or
 - ☐ ☐ department) benefits from overhead revenue
- Charge for service, including "collaboration"
 - ☐ - Interpretation is more valuable than data collection,
 - ☐ ☐ so charge (more) for it