





Research Questions

- Did course performance improve with PDAs relative to PRS?
- Did more frequent users of PDAs perform better than less frequent users?
- What were students' attitudes toward the impact of PDAs on their learning?



Data Sources

- Course grades with PRS : Fall 2003 (N = 64)
- Course grades with PDA : Fall 2005 (N= 87)
- Data logs of PDA use: Fall 2005 (N=87)
- Student Survey: Fall 2005 (N=87)





Student Survey Ratings

Percent who agreed or strongly agreed

- Responding to questions in class using the handheld computers was useful to my learning (63%);
- Interacting with other students while discussing the questions in class was useful to my learning (61%);
- The hand-held computers help the instructor clarify what we do not understand (79%);
- This experience with hand-held computers has made it more likely that I will use this type of technology in my own teaching (65%).



- Did course performance improve with PDAs relative to PRS?
 - Yes. Statistically significant improvement in course grades with PDA vs. PRS for same course, similar students.
- Did more frequent users of PDAs perform better than less frequent users?
- Yes. More frequent users of PDAs secured higher course grades than less frequent users.
- What were students' attitudes toward the impact of PDAs on their learning?
 - A majority of students strongly or very strongly agreed that PDAs positively impact their learning.

Limitations & Future Work

- Correlation is not causality
 - PDA use correlation with higher performance does not imply PDAs causes higher performance.
- Investigate how PDAs are used, not just how often they are used
 - Certain ways of using PDA may be more beneficial to student learning than others.

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