Acknowledgement
This report was an independent study conducted at a major US corporation. We want to express our appreciation for permission to publish these results.

ALTERNATIVE MOUSE STUDY

For ten weeks an Ergonomics Team at a major semi-conductor manufacturer, conducted a study to determine what the best and worst pointing devices are for the office environment. The intent of this information was threefold: to help identify root causes of injuries, to aid in making office ergonomic recommendations, and to initiate a mouse “library” program where employees can test alternative pointing devices on a trial basis.

At the beginning of each week, the study’s ten participants received a new pointing device to be used for regular computing use. At the conclusion of each week, surveys were completed and results were compiled. To make sure statistics were accurate, every person tested every mouse in a different order.

What follows are results of the Alternative Mouse Study. The results of this report compare and contrasts the ten mice.

Mice tested

Contour Mouse (Medium Sized Only)

Logitech Flat Mouse
Alternative Mouse Study Results

Logitech Curved Tilted Mouse

Gyropoint Mouse

Microsoft Mouse

Hewlett-Packard 3-Button Mouse
Logitech Marble Trackman

Logitech Pointed Tilted Mouse

Glidepoint

Alternative Mouse Study Results
Part I - Comparison

Percentage of participants that say mouse is a viable option

- Contour Mouse: 100%
- Logitech Flat Mouse: 100%
- Logitech Pointed Tilted Mouse: 100%
- Microsoft Mouse: 100%
- Gyropoint Mouse: 78%
- Logitech Curved Tilted Mouse: 75%
- Trackman Thumb Trackball: 44%
- Glidepoint: 0%
- Hewlett-Packard 3-button Mouse: 0%
- Microspeed Large Trackball: 0%

Question 1: Overall, how would you rate the pointing device for office tasks?

![Bar Chart]

User Response

Contour | Logitech Pointed | Logitech Flat | Logitech Curved | Gyropoint | Microsoft | Trackman | Glidepoint | HP

0   1   2   3   4   5   6   7   8   9   10

Alternative Mouse Study Results
Question 2: How would you rate the comfort of the buttons on the pointing device?

![Bar chart showing user responses to comfort of buttons on different pointing devices.]

Question 3: When using the pointing device, do you find that your fingers feel tense(1) or relaxed(10)?

![Bar chart showing user responses to finger tension on different pointing devices.]

Alternative Mouse Study Results
Questions 4: How would you rate the drag and click capability of the mouse?

User Response

Question 5: How would you describe the accuracy of the cursor movement?

User Response
Question 5: Overall, how would you rate the pointing device for office tasks?

![User Response Graph]

* The Contour Mouse was tested with Medium Sized version only.

**Contour Mouse**

Overall, the Contour mouse received the highest scores. Most comments were very enthusiastic. The only negative comments were: “takes getting used to”, “too large”, “can’t use with wristrest”. The Contour is available in ex-small, small, medium, large and ex-large sizes. We used the medium size in our study for all participants. It is also available for left hands.

The Contour mouse was most popular among people with small and medium hands. It was the very best mouse in terms of comfort and accuracy, but placed lower in the drag/click category. Contour is one of the larger mice in our study, and has a thumbrest built into the side.
Summary

It is clear that in almost every category, we see a significant difference between “good mice” and “bad mice”. By looking at the data for overall mouse performance (page 2) we see that 6 mice score highly in all categories. The graph shows a large drop between the first six mice and the last three mice.

Based on this study, these mice are recommended:

- Contour Mouse*
- Logitech Pointed Tilted Mouse
- Logitech Flat Mouse
- Logitech Curved Tilted Mouse
- Gyropoint Mouse
- Microsoft Mouse

It is important to note that no matter how highly a mouse is recommended, it cannot solve the problems of office ergonomics. It is up to each individual to make sure he or she is working safely through application of ergonomic principles and Best Known Methods. This includes a properly adjusted workstation, chair and monitor, a comfortable keyboard, and a comfortable mouse. Each employee should have an ergonomic evaluation on their office area, take the Office Ergonomics class, and should take frequent stretching breaks.

<table>
<thead>
<tr>
<th>Manufacturer Name</th>
<th>Visual Description</th>
<th>Model Number</th>
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<tbody>
<tr>
<td>Contour</td>
<td>Contour Mouse, Medium</td>
<td>PC-M-R</td>
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<tr>
<td>Logitech</td>
<td>Triangular Tilted</td>
<td>M-CQ38</td>
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<td>Curved Non-tilted</td>
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<td>Microsoft</td>
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