May 18, 2007

Dear Commissioner,

Attached you will find the Montpelier Open Space Survey that was developed, administered and analyzed by the Montpelier High School Advanced Statistics class with the support and guidance of Montpelier city commissions and personnel.

We have enjoyed using our academic skills and knowledge during this yearlong service learning project and it is our hope that the survey results will provide valuable information for your discussions and decision making processes. Thank you for the opportunity to collaborate with you and take part as active citizens in our community.

Respectfully,

Advanced Statistics Class
Sue Beem, Teacher

Cc: William Frasier, City Manager
Peter Evans, Principal
Open Space Survey

This survey is a joint project of the Montpelier Conservation Commission and the Montpelier High School statistics class. It is our hope that survey results will be used to guide the work of city commissions. We would appreciate your honest input on the following questions.

Because the survey is created and read by a computer program, please mark with a pencil only one response per question. Fill in each circle completely. The squares on each corner of the page represent a code for the data to be ready by the computer so please take special care not to mark the squares in any way.

1. How important do you feel it is to preserve/create open space in Montpelier for:

<table>
<thead>
<tr>
<th>Response Definition: 1=Not Important</th>
<th>2=Somewhat Important</th>
<th>3=Important</th>
<th>4=Very Important</th>
<th>5=Essential</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. open space for conservation of water and air</td>
<td>○ ○ ○ ○ ○</td>
<td>○ ○ ○ ○ ○</td>
<td>○ ○ ○ ○ ○</td>
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<td>B. open space for wildlife conservation</td>
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<td>C. the natural beauty of the area</td>
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<td>D. open space to attract tourists</td>
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<tr>
<td>E. a balance between developed and undeveloped land</td>
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<td>F. neighborhood parks</td>
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<tr>
<td>G. playgrounds</td>
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<tr>
<td>H. community gardens</td>
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<td>I. recreation fields: baseball/soccer, etc.</td>
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<td>J. hiking/skiing trails</td>
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<td>K. farmlands and agriculture</td>
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<td>○ ○ ○ ○ ○</td>
<td>○ ○ ○ ○ ○</td>
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<td>L. other (please comment within the square boundary provided):</td>
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2. From the list above, which three (3) do you feel are the highest open space priorities for Montpelier?

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
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</tr>
</tbody>
</table>

3. To preserve open space, how likely would you be to:

| vote for city to purchase land. | ○ ○ ○ ○ ○ |
| support a tax increase | ○ ○ ○ ○ ○ |
| donate money to buy land | ○ ○ ○ ○ ○ |
| donate an easement to provide trail access | ○ ○ ○ ○ ○ |
| donate an easement, on some portion of your property, to protect it as open space | ○ ○ ○ ○ ○ |
| help fund-raise or work in some other volunteer capacity | ○ ○ ○ ○ ○ |
| donate land to the city | ○ ○ ○ ○ ○ |
| sell land to the city at below market value | ○ ○ ○ ○ ○ |
4. Should the city protect some open space through regulation by
   rezoning undeveloped land by requiring the clustering of new houses near roads and services,
   protecting blocks of open space (same number of houses allowed but "clustered")?
   rezoning portions of undeveloped land to preserve it as part of new housing developments (just
   applies to larger developments)?
   rezoning undeveloped land to conserve it as open space (reduction of landowner's current
   development rights)?
   open space should not be protected through zoning regulations?

5. How would you balance open space protection and land development in Montpelier?

6. How important are the following issues in Montpelier?

7. Do you own or rent the apartment or house in which you are currently living?

8. If you own your home, what size is your lot?

9. In walking distance, how close do you live to publicly accessible open space?

10. Which of the following best describes your total annual household income?

Please feel free to enclose comments or concerns regarding open space in Montpelier on a separate sheet of paper.
Open Space Survey

Creation Date: 4/25/2007
Total Respondents: 165

A. open space for conservation of water and air

1. Not Important 12 7%
2. Somewhat Important 22 13%
3. Important 31 19%
4. Very Important 30 18%
5. Essential 68 42%
Total Responses: 163
Mean: 3.74  Standard Deviation: 1.32

B. open space for wildlife conservation

1. Not Important 16 10%
2. Somewhat Important 25 15%
3. Important 32 20%
4. Very Important 36 22%
5. Essential 55 34%
Total Responses: 164
Mean: 3.54  Standard Deviation: 1.35

C. the natural beauty of the area

1. Not Important 11 7%
2. Somewhat Important 16 10%
3. Important 37 23%
4. Very Important 43 26%
5. Essential 57 35%
Total Responses: 164
Mean: 3.73  Standard Deviation: 1.23

D. open space to attract tourists

1. Not Important 28 17%
2. Somewhat Important 32 20%
3. Important 46 28%
4. Very Important 36 22%
5. Essential 20 12%
Total Responses: 162
Mean: 2.93  Standard Deviation: 1.27
E. a balance between developed and undeveloped land

1. Not Important: 17 (11%)
2. Somewhat Important: 15 (9%)
3. Important: 39 (24%)
4. Very Important: 38 (24%)
5. Essential: 52 (32%)
Total Responses: 161
Mean: 3.58  Standard Deviation: 1.31

F. neighborhood parks

1. Not Important: 18 (11%)
2. Somewhat Important: 21 (13%)
3. Important: 38 (23%)
4. Very Important: 41 (25%)
5. Essential: 46 (28%)
Total Responses: 164
Mean: 3.48  Standard Deviation: 1.32

G. playgrounds

1. Not Important: 13 (8%)
2. Somewhat Important: 21 (13%)
3. Important: 61 (38%)
4. Very Important: 29 (18%)
5. Essential: 38 (23%)
Total Responses: 162
Mean: 3.36  Standard Deviation: 1.20

H. community gardens

1. Not Important: 32 (20%)
2. Somewhat Important: 34 (21%)
3. Important: 41 (25%)
4. Very Important: 31 (19%)
5. Essential: 26 (16%)
Total Responses: 164
Mean: 2.81  Standard Deviation: 1.35
Open Space Survey

1. recreation fields: baseball/soccer, etc.

1. Not Important 9 5%
2. Somewhat Important 22 13%
3. Important 53 32%
4. Very Important 42 26%
5. Essential 38 23%
Total Responses: 164
Mean: 3.48  Standard Deviation: 1.15

J. hiking/skiing trails

1. Not Important 18 11%
2. Somewhat Important 20 12%
3. Important 41 25%
4. Very Important 41 25%
5. Essential 43 26%
Total Responses: 163
Mean: 3.44  Standard Deviation: 1.30

K. farmlands and agriculture

1. Not Important 24 15%
2. Somewhat Important 21 13%
3. Important 33 20%
4. Very Important 35 22%
5. Essential 49 30%
Total Responses: 162
Mean: 3.40  Standard Deviation: 1.42

L. ilist

1. A 45 30%
2. B 5 3%
3. C 24 16%
4. D 3 2%
5. E 33 22%
6. F 8 4%
7. G 9 6%
8. H 2 1%
9. I 13 9%
10. J 7 5%
11. K 3 2%
12. L 2 1%
Total Responses: 152
Mean: 4.36  Standard Deviation: 3.10
Open Space Survey

1. A 13 9%
2. B 21 14%
3. C 27 18%
4. D 5 3%
5. E 12 8%
6. F 14 9%
7. G 12 8%
8. H 10 7%
9. I 13 9%
10. J 7 5%
11. K 15 10%
12. L 3 2%
Total Responses: 152
Mean: 5.61 Standard Deviation: 3.33

1. A 23 15%
2. B 11 7%
3. C 18 12%
4. D 6 4%
5. E 16 11%
6. F 13 9%
7. G 5 3%
8. H 5 3%
9. I 14 9%
10. J 18 12%
11. K 19 13%
12. L 2 1%
Total Responses: 150
Mean: 5.97 Standard Deviation: 3.61

vote for city to purchase land

1. Not likely 44 27%
2. Somewhat likely 18 11%
3. Likely 34 21%
4. Very likely 28 17%
5. Definitely 38 23%
Total Responses: 162
Mean: 2.99 Standard Deviation: 1.52

support a tax increase

1. Not likely 66 41%
2. Somewhat likely 32 20%
3. Likely 27 17%
4. Very likely 23 14%
5. Definitely 14 9%
Total Responses: 162
Mean: 2.30 Standard Deviation: 1.36
Open Space Survey

1. Not likely  71  44%
2. Somewhat likely  46  28%
3. Likely  27  17%
4. Very likely  10  6%
5. Definitely  8  5%
Total Responses:  162
Mean: 2.00  Standard Deviation: 1.14

1. Not likely  75  50%
2. Somewhat likely  30  20%
3. Likely  15  10%
4. Very likely  16  11%
5. Definitely  14  9%
Total Responses:  150
Mean: 2.09  Standard Deviation: 1.37

1. Not likely  80  52%
2. Somewhat likely  31  20%
3. Likely  13  8%
4. Very likely  15  10%
5. Definitely  15  10%
Total Responses:  154
Mean: 2.05  Standard Deviation: 1.37

1. Not likely  46  29%
2. Somewhat likely  37  23%
3. Likely  40  25%
4. Very likely  18  11%
5. Definitely  19  12%
Total Responses:  160
Mean: 2.54  Standard Deviation: 1.33
Open Space Survey

1. Not likely 115 75%
2. Somewhat likely 18 12%
3. Likely 14 9%
4. Very likely 3 2%
5. Definitely 4 3%
Total Responses: 154
Mean: 1.46  Standard Deviation: 0.93

sell land to the city at below market value

1. Not likely 114 75%
2. Somewhat likely 23 15%
3. Likely 7 5%
4. Very likely 6 4%
5. Definitely 3 2%
Total Responses: 153
Mean: 1.44  Standard Deviation: 0.90

rezoning undeveloped land by requiring the clustering of new houses near roads and services, protecting blocks of open space (same number of houses allowed but "clustered")?

1. Yes 114 71%
2. No 46 29%
Total Responses: 160
Mean: 1.29  Standard Deviation: 0.45

rezoning portions of undeveloped land to preserve it as part of new housing developments (just applies to larger developments)?

1. Yes 90 60%
2. No 60 40%
Total Responses: 150
Mean: 1.40  Standard Deviation: 0.49
Open Space Survey

rezoning undeveloped land to conserve it as open space (reduction of landowner's current development rights)?

1. Yes 65 44%
2. No 84 56%
Total Responses: 149
Mean: 1.56  Standard Deviation: 0.50

open space should not be protected through zoning regulations?

1. Yes 34 25%
2. No 100 75%
Total Responses: 134
Mean: 1.75  Standard Deviation: 0.44

1. Develop all lands possible 12 8%
2. Develop about 3/4 of land but preserve some ... 38 25%
3. Balance the two equally 46 30%
4. Develop about 1/4 of land but preserve most o... 40 26%
5. Preserve all remaining open space 19 12%
Total Responses: 155
Mean: 3.10  Standard Deviation: 1.14

More and higher paying jobs.

1. Least Important 8 5%
2. Somewhat Important 17 10%
3. Important 40 25%
4. Very Important 58 36%
5. Most Important 40 25%
Total Responses: 163
Mean: 3.64  Standard Deviation: 1.11
Open Space Survey

Improved parking and traffic management.

1. Least Important 12 7%
2. Somewhat Important 23 14%
3. Important 43 26%
4. Most Important 50 31%
5. Urgent 35 21%
Total Responses: 163
Mean: 3.45 Standard Deviation: 1.19

More housing.

1. Least Important 13 8%
2. Somewhat Important 32 20%
3. Important 43 26%
4. Most Important 42 26%
5. Urgent 33 20%
Total Responses: 163
Mean: 3.31 Standard Deviation: 1.22

More commercial development.

1. Least Important 27 17%
2. Somewhat Important 45 28%
3. Important 40 25%
4. Most Important 30 19%
5. Urgent 19 12%
Total Responses: 161
Mean: 2.81 Standard Deviation: 1.26

Open space.

1. Least Important 23 14%
2. Somewhat Important 20 12%
3. Important 41 25%
4. Most Important 44 27%
5. Urgent 33 20%
Total Responses: 161
Mean: 3.27 Standard Deviation: 1.31
Open Space Survey

1. Own
   - Total Responses: 134
   - Mean: 1.17
   - Standard Deviation: 0.38

2. Rent
   - Total Responses: 28
   - Mean: 1.17
   - Standard Deviation: 0.38

1. 1 acre or less
   - Total Responses: 115
   - Mean: 1.23
   - Standard Deviation: 0.50

2. more than 1 acre but not more than 5 acres
   - Total Responses: 22
   - Mean: 1.23
   - Standard Deviation: 0.50

3. more than 5 acres
   - Total Responses: 5
   - Mean: 1.23
   - Standard Deviation: 0.50

1. less than 5 minutes
   - Total Responses: 66
   - Mean: 1.88
   - Standard Deviation: 0.82

2. between 5 and 10 minutes
   - Total Responses: 50
   - Mean: 1.88
   - Standard Deviation: 0.82

3. more than 10 minutes
   - Total Responses: 46
   - Mean: 1.88
   - Standard Deviation: 0.82

1. Less than $24,999
   - Total Responses: 16
   - Mean: 4.94
   - Standard Deviation: 2.25

2. $25,000 to $34,999
   - Total Responses: 15
   - Mean: 4.94
   - Standard Deviation: 2.25

3. $35,000 to $44,999
   - Total Responses: 14
   - Mean: 4.94
   - Standard Deviation: 2.25

4. $45,000 to $54,999
   - Total Responses: 19
   - Mean: 4.94
   - Standard Deviation: 2.25

5. $55,000 to $79,999
   - Total Responses: 29
   - Mean: 4.94
   - Standard Deviation: 2.25

6. $80,000 to $99,999
   - Total Responses: 17
   - Mean: 4.94
   - Standard Deviation: 2.25

7. $100,000 or more
   - Total Responses: 27
   - Mean: 4.94
   - Standard Deviation: 2.25

8. Prefer not to say
   - Total Responses: 25
   - Mean: 4.94
   - Standard Deviation: 2.25

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Open Space

By Period 7 Statistics Class

Developing the Survey

- Learned about open space
- Looked at other cities' and towns' surveys
- Brainstormed what we thought was important
- Based on everyone's input we developed questions

Developing the Survey (Cont.)

- Edited questions and made multiple revisions with input from Geoff Beyer, Ken Jones, the Planning and Conservation Commissions, city officials and faculty from Montpelier High School.
- Revised and developed new questions
- Shared results with Ken and Geoff
- Finalized survey...added questions 4 and 5
Distributing the Survey

- Voter registration list
- Took a representative sample from each district
- Total of 600 surveys sent out (little more than 10% of registered voters)

Analysis

Income Distribution

![Income Distribution Chart]

<table>
<thead>
<tr>
<th>Income Distribution of Respondents</th>
<th>Income Distribution in Montpelier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent of Respondents</td>
<td>Percent of Population</td>
</tr>
<tr>
<td>$10,000 - $19,999</td>
<td>Low</td>
</tr>
<tr>
<td>$20,000 - $29,999</td>
<td>Medium</td>
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<tr>
<td>$30,000 - $39,999</td>
<td>High</td>
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<td>$40,000 - $49,999</td>
<td>Very High</td>
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<td>$100,000 - $199,999</td>
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2
Questions 1&2

- Three points were earned for being the first choice
- Two points were earned for being the second choice
- One point was earned for being the third choice

How important do you feel it is to preserve open space in Montpelier for:

- Option A - open space for conservation of air and water
  - 60% of people thought it was very important or essential
- Option C - the natural beauty of the area
  - 61% of people thought it was very important or essential
- Option E - a balance between developed and undeveloped land
  - 50% of people thought it was very important or essential
Should the city protect some open space through regulation by:

1. Rezoning undeveloped land by requiring the clustering of new housing developments and reserving protecting blocks of open space (71% opposed by respondents)
2. Rezoning portions of undeveloped land to preserve it as part of new housing developments (69% opposed by respondents)
3. Rezoning undeveloped land to conserve it as open space (84% opposed by respondents)

Confidence in Question 4

- We are 95% confident that the true proportion of registered voters in Montpellier who support rezoning undeveloped land by requiring clustering of new houses is between 84% and 78%.
- We are 95% confident that the true proportion of registered voters in Montpellier who support rezoning portions of undeveloped land to preserve it as part of new housing development is between 52% and 67%.
Question 6 continued...

- More and higher paying jobs received highest number of very important or essential responses
- Commercial development received the fewest responses in the categories very important or essential.
- Open space and housing, have similar percentages

Comments! Actual quotes!

- When you have enough “open space” & good development to reduce the high demand on services.
- The way things are going, it’s not going to do what they wish with their own property. The only community regulations, bars and alcohol have few rights.
- 5% of the land area of bicycle in “open space” line are at an elevation 5% higher. The question was too small and let non-bicyclists in front.
- Thomas was not ready for additional open space, but had intentions to promote more development and push into the line before.

- Why some shops, such as health foods store.
- Let’s down building agreements and zoning, and stop, just stay.
- Think you’re still talking about the people and not community.
- Open spaces essential to preserve the character of Honolulu.
- Many more walking & bike trails/places.
- Parking for automobiles.
- State Code, Alt-Downtown.
- Space to show innovations not to be pushed off the amount of signs.

Compiled by Thomas-M!

Surprises

- Return Rate (27.5%)
- Amount of respondents who did not follow directions
- High percentage of respondents indicated a willingness to volunteer or help fund raise (58%)