



DATE: 18 December 2006

TO: Citizens Advisory Committee for the Eureka Township Strategic Vision

FROM: Bill Weber, Planning Consultant

SUBJECT: Community Opinion Survey – Cross-tabulations

I have prepared tables that show how the survey respondents answered selected pairs of questions. This may provide some insight into questions such as “do respondents from the western half of the township feel differently about housing density than do respondents from the eastern half of the township?”

My interpretation of the results is presented below; the tables follow. Note that I gave each question a short name for easy reference. Additional combinations could be computed if the committee members so desire.

Summary

I cautiously offer these summary observations about the cross-tabulations:

- There is no strong trend evident based on the home location of the respondents.
- Sentiment for keeping Eureka Township “rural” is equally represented east versus west and north versus south.
- Respondents from the north and west are somewhat more favorable toward:
 - _ Higher housing densities (2, 4, 8 or 16 houses per 40 acres)
 - _ Use of poor farm sites for housing.
- Respondents from the east and south are somewhat more favorable toward:
 - _ Clustered housing
 - _ Holding to the current zoning of 1 house per 40 acres.
- 1 house per 40 acres is the density most often chosen by those who said “keep Eureka rural” but a majority of those who say “keep Eureka rural” would allow a higher density. 2 per 40 and 4 per 40 followed 1 per 40 in order of preference among those who said “keep Eureka rural.”
- Of those who said, “keep Eureka Rural,” 55 percent responded that they would keep the current zoning of 1 house per 40 acres for at least the next ten years.

- There was a strong core of support for 1 per 40 zoning but a majority of respondents were favorable toward a higher density. Thus, there was support for modest change, particularly if it protects natural resources, retains rural character and is in the range of 1 to 4 houses per 40 acres.
- The number of years a respondent had lived in Eureka Township correlated slightly with the top and bottom of the housing density scale.

Quad by Field40, Wood40
Q. 24 x Q. 18, 19

- Sentiment for allowing 2, 4, 8, or 16 houses per 40 (either a farm field or a wooded tract) is strongest in the western half of the township.
- A plurality favors limiting housing density to 1 per 40 acres on a typical farm field 40 acre tract and a typical wooded 40.
- A majority favors allowing 2, 4, 8, or 16 houses in either of those locations.

Farming x Field 40
Q. 23 x Q. 18, 19

- “Farmers” are divided in their opinion about how many houses to allow on a typical farm field 40 or a typical wooded 40-acre tract. (Note that there were only 9 respondents who said that farming in Eureka Township is their primary occupation.)
- Non-farmers generally favor allowing 2, 4, 8, or 16 houses per 40 in those locations.

Rural x Field40, Wood40
Q. 5 x Q. 18, 19

- Of those who agreed with the statement “Eureka township should remain rural,” a plurality would allow only one house on a typical farm field 40 or a typical wooded 40.
- A majority favored a higher number of houses per 40.
- 2 per 40 and 4 per 40 were the two densities next most selected by those who agreed with the statement.
- Those who disagreed with the statement were more likely to allow a higher number of houses per 40.

Quad x 1 per 40
Q. 24 x Q. 7

- Sentiment for holding to the current 1 per 40 zoning is somewhat stronger in the eastern half of the township than in the western half.
- Opinions on holding to the current 1 per 40 zoning are approximately equally divided northern versus south.

Quad x Rural
Q. 24 x Q. 5

- Sentiment for keeping Eureka Township “rural” is equally represented east versus west and north versus south.

Rural x 1 per 40
Q. 5 x Q. 7

- Of those who would keep Eureka Township rural, 55 percent would keep the current 1 house per 40 acres zoning.

1 per 40 x Field 40, Wood40
Q. 7 x Q. 18, 19

- The results of these two cross-tabulations are similar.
- Of those who would retain the current 1 house per 40 acres zoning, 38 percent would allow more than 1 per 40 on a typical farm field 40 acre tract.
- Of those who would retain the current 1 house per 40 acres zoning, 47 percent (or about half) would allow more than 1 per 40 on a typical farm field 40 acre tract.

Rural x Wooded
Q. 5 x Q. 17

- Of those who would say keep Eureka rural, approximately two-thirds would locate housing in areas not well suited for farming.

Rural x Clusters
Q. 5 x Q. 13

- Of those who favor keep Eureka Rural, half are opposed to clustered housing; one-third favor clustered housing.

Quad x Wooded
Q. 24 x Q 17

- Use of poor farm sites for new housing is fairly evenly shared north versus south and east versus west.
- Use of poor farm sites for new housing is favored most strongly in the northwestern quadrant of the township.

Quad x Clusters
Q. 24 x Q. 13

- Among the survey respondents, there is more support for clustered housing among those living in the eastern half of the township than in the western half, and more support from the south than the north.

Nature x Field40, Wood40
Q. 5 x Q. 18, 19

- As might be expected, those who favored using planning and zoning to preserve high quality natural resources, strongly tended to favor 1, 2 or 4 houses per 40 acres, whether on a farm field or a wooded tract. Once again, 1 per 40 was the single most favored density but the other four collectively drew a majority of the votes.

Nature x Wooded
Q. 9 x Q. 17

- These results were very similar to those for the Nature vs. Field40, Wood40 combinations.

Years x Field40, Wood 40
Q. 20 x Q. 18, 19

- There was a slight bias in favor of 1 per 40 among respondents who had lived in Eureka fewer than 20 years and a slight bias in favor of 8 or 16 per 40 by those who had lived in Eureka more than 30 years.

Eureka Township Community Opinion Survey
Crosstabulation of Selected Questions

All numbers are percentages. Totals may not equal 100 because of rounding.

Quad x Field 40 Q. 24 x Q. 18

All numbers are percentages

Wood40	Quadrant						Row Total	Col. Total
	NW	NE	SW	SE	Elsewhere	Missing		
1 per 40	10	5	9	6	1	2	33	
2 per 40	4	2	2	1	0	0	9	
4 per 40	6	5	7	4	0	0	22	
8 per 40	5	3	5	0	1	1	15	
16 per 40	7	1	3	2	0	2	15	
Missing	2	0	1	0	1	2	6	
Column Total	34	16	27	13	3	7	100	

Quad x Wood 40 Q. 24 x Q. 19

All numbers are percentages

Wood40	Quadrant						Row Total	Col. Total
	NW	NE	SW	SE	Elsewhere	Missing		
1 per 40	9	4	8	5	1	1	28	
2 per 40	5	2	1	1	0	1	10	
4 per 40	7	3	6	3	0	1	20	
8 per 40	6	2	7	2	1	0	18	
16 per 40	5	2	4	2	0	2	15	
Missing	2	1	2	0	1	2	8	
Column Total	34	14	28	13	3	7	99	

Farming x Field 40 Q. 23 x Q. 18

All numbers are percentages

Field40	Farming						Row Total	Col. Total
	Yes	No	Missing			Missing		
1 per 40	4	29	1				34	
2 per 40	1	8	0				9	
4 per 40	0	19	1				20	
8 per 40	2	17	0				19	
16 per 40	2	12	0				14	
Missing		5	0				5	
Column Total	9	90	2	0	0	0	101	

Farming x Wood40 Q. 23 x Q. 19

All numbers are percentages

Field40	Farming						Row Total	Col. Total
	Yes	No	Missing					
1 per 40	3	25	1				29	
2 per 40	1	8	0				9	
4 per 40	0	19	1				20	
8 per 40	1	17	0				18	
16 per 40	3	13	0				16	
Missing	2	5	0				7	
Column Total	10	87	2	0	0	0	99	

Rural x Field40 Q. 5 x Q. 18

All numbers are percentages

Rural								Col. Total
Field40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
1 per 40	29	6	0	0	0	0	35	
2 per 40	5	2	0	1	0	0	8	
4 per 40	8	11	1	2	0	1	23	
8 per 40	3	4	1	3	2	0	13	
16 per 40	1	1	3	8	2	0	15	
Missing	1	1	1	2	0	1	6	
Column Total	47	25	6	16	4	2	100	100

Rural x Wood40 Q. 5 x Q. 19

All numbers are percentages

Rural								Col. Total
Wood40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
1 per 40	25	3	1	0	0	0	29	
2 per 40	8	2	0	1	0	0	11	
4 per 40	7	11	1	1	1	0	21	
8 per 40	3	7	1	4	2	0	17	
16 per 40	1	2	3	5	0	1	12	
Missing	2	1	1	2	1	1	8	
Column Total	46	26	7	13	4	2	98	98

Quad x 1 per 40 Q. 24 x Q. 7

All numbers are percentages

Quad							Col. Total
1 per 40	NW	NE	SW	SE	Elsewhere	Missing	Row Total
S. Agree	13	5	10	6	2	2	38
Agree	6	3	4	4	0	0	17
No Opinion	3	1	1	1	0	0	6
Disagree	6	2	4	1	0	0	13
S. Disagree	7	2	9	3	1	0	22
Missing	1	0	0	0	0	0	1
Column Total	36	13	28	15	3	2	97

Quad x Rural Q. 24 x Q. 5

All numbers are percentages

Quad							Col. Total
Rural	NW	NE	SW	SE	Elsewhere	Missing	Row Total
S. Agree	16	6	12	7	2	2	45
Agree	10	3	8	4	1	1	27
No Opinion	3	1	2	1	0	0	7
Disagree	4	3	3	1	0	0	11
S. Disagree	1	2	3	1	0	0	7
Missing	1	0	1	0	0	0	2
Column Total	35	15	29	14	3	3	99

Rural x 1 per 40 Q. 5 x Q. 7
 All numbers are percentages

Rural								Col. Total
1 per 40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
S. Agree	35	4	0	0	0	0	39	
Agree	6	10	1	1	0	0	18	
No Opinion	3	4	0	0	0	0	7	
Disagree	2	6	2	5	0	1	16	
S. Disagree	1	3	3	9	0	1	17	
Missing	0	0	0	0	0	1	1	
Column Total	47	27	6	15	0	3	98	98

1 per 40 x Field 40 Q. 7 x Q. 18
 All numbers are percentages

1 per 40								Col. Total
Field40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
1 per 40	32	6	0	0	0	0	38	
2 per 40	3	4	1	1	0	0	9	
4 per 40	6	5	5	5	3	0	24	
8 per 40	1	2	0	5	7	0	15	
16 per 40	1	1	0	4	0	0	6	
Missing	1	1	0	2	2	1	7	
Column Total	44	19	6	17	12	1	99	99

1 per 40 x Wood40 Q. 7 x Q. 19
 All numbers are percentages

1 per 40								Col. Total
Wood 40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
1 per 40	26	4	1	2	0	0	33	
2 per 40	5	3	1	1	0	0	10	
4 per 40	6	5	4	3	4	0	22	
8 per 40	3	4	2	5	7	0	21	
16 per 40	0	1	0	4	0	0	5	
Missing	2	1	0	2	2	1	8	
Column Total	42	18	8	17	13	1	99	99

Rural x Wooded Q. 5 x Q. 17

All numbers are percentages

Rural								Col. Total
Wooded	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
S. Agree	11%	4%	0%	1%	0%	0%	17%	
Agree	20%	12%	2%	3%	1%	1%	39%	
No Opinion	7%	5%	1%	2%	2%	0%	17%	
Disagree	5%	4%	3%	6%	0%	1%	18%	
S. Disagree	3%	1%	0%	2%	0%	0%	6%	
Missing	1%	0%	0%	0%	0%	0%	1%	
Column Total	47%	26%	7%	14%	4%	3%	1.00	1.00

Rural x Clusters Q. 5 x Q. 13

All numbers are percentages

Rural								Col. Total
Clusters	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
S. Agree	4%	1%	1%	1%	1%	0%	9%	
Agree	9%	9%	1%	4%	2%	0%	26%	
No Opinion	7%	4%	0%	3%	1%	1%	16%	
Disagree	10%	9%	3%	4%	0%	1%	27%	
S. Disagree	15%	1%	1%	3%	0%	0%	20%	
Missing	1%	0%	0%	0%	0%	1%	3%	
Column Total	46%	26%	6%	14%	5%	3%	1.00	1.00

Quad x Wooded Q. 24 x Q. 17

All numbers are percentages

Quad								Col. Total
Wooded	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
S. Agree	5%	2%	5%	2%	1%	1%	16%	
Agree	16%	5%	11%	4%	1%	1%	38%	
No Opinion	5%	4%	5%	3%	0%	0%	17%	
Disagree	5%	2%	5%	2%	0%	3%	18%	
S. Disagree	3%	1%	4%	1%	0%	0%	9%	
Missing	1%	0%	0%	0%	0%	0%	1%	
Column Total	35%	14%	29%	13%	3%	6%	1.00	1.00

Quad x Clusters Q. 24 x Q. 13

All numbers are percentages

Quad								Col. Total
Clusters	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	
S. Agree	2%	1%	3%	1%	1%	1%	8%	
Agree	6%	4%	6%	6%	1%	2%	25%	
No Opinion	3%	3%	6%	2%	1%	1%	16%	
Disagree	13%	4%	6%	3%	0%	1%	26%	
S. Disagree	8%	2%	9%	2%	0%	1%	22%	
Missing	1%	0%	0%	0%	0%	0%	2%	
Column Total	35%	14%	29%	13%	3%	6%	1.00	1.00

Nature x Field40 Q. 9 x Q. 18

All numbers are percentages

		Nature							
Field 40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	Col. Total	
1 per 40	25%	7%	2%	0%	0%	0%	35%		
2 per 40	5%	3%	1%	0%	0%	0%	9%		
4 per 40	11%	7%	1%	1%	0%	0%	21%		
8 per 40	5%	4%	1%	1%	1%	1%	13%		
16 per 40	7%	6%	2%	1%	0%	0%	16%		
Missing	2%	3%	0%	0%	1%	0%	7%		
Column Total	54%	31%	7%	4%	3%	1%	1.00	1.00	

Nature x Wood40 Q. 9 x Q. 19

All numbers are percentages

		Nature							
Wood40	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	Col. Total	
1 per 40	22%	4%	2%	0%	0%	0%	29%		
2 per 40	5%	3%	1%	0%	0%	0%	10%		
4 per 40	9%	8%	1%	1%	1%	0%	20%		
8 per 40	7%	7%	1%	1%	1%	0%	18%		
16 per 40	6%	6%	2%	1%	0%	1%	15%		
Missing	3%	3%	0%	0%	1%	0%	8%		
Column Total	53%	31%	7%	4%	3%	1%	1.00	1.00	

Nature x Wooded Q. 9 x Q. 17

All numbers are percentages

		Nature							
Wooded	S. Agree	Agree	No Op.	Disagree	S. Disag.	Missing	Row Total	Col. Total	
S. Agree	12%	3%	1%	0%	0%	0%	17%		
Agree	20%	17%	2%	1%	0%	0%	39%		
No Opinion	9%	4%	2%	1%	1%	0%	17%		
Disagree	8%	6%	2%	1%	1%	0%	18%		
S. Disagree	5%	1%	1%	1%	0%	0%	8%		
Missing	1%	0%	0%	0%	0%	0%	1%		
Column Total	54%	31%	7%	4%	2%	1%	1.00	1.00	

Years x Field40 Q. 20 x Q. 18

All numbers are percentages

		Years						
Field40	0 - 10	11 - 20	21 - 30	31+		Missing	Row Total	Col. Total
1 per 40	8%	9%	6%	9%		1%	34%	
2 per 40	2%	3%	1%	2%		0%	9%	
4 per 40	5%	7%	5%	5%		0%	21%	
8 per 40	3%	2%	2%	5%		1%	13%	
16 per 40	5%	3%	3%	5%		1%	17%	
Missing	1%	2%	1%	2%		0%	7%	
Column Total	24%	26%	18%	29%	0%	3%	1.00	1.00

Years x Wood40 Q. 20 x Q. 19

All numbers are percentages

		Years						
Wood40	0 - 10	11 - 20	21 - 30	31+		Missing	Row Total	Col. Total
1 per 40	8%	9%	5%	7%		1%	29%	
2 per 40	2%	3%	1%	2%		0%	10%	
4 per 40	3%	7%	5%	5%		0%	20%	
8 per 40	5%	3%	2%	7%		0%	18%	
16 per 40	4%	2%	4%	5%		1%	16%	
Missing	1%	2%	1%	3%		0%	8%	
Column Total	24%	26%	18%	29%	0%	3%	1.00	1.00