

**Appendix B:
General Percentage Breakdown of Survey Findings for
Mingo and Wyoming Counties, WV. 2005**

Question Set I: WHAT ARE YOUR GENERAL VIEWS ABOUT YOUR COMMUNITY?

We've surveyed residents in Martin and Perry County, Kentucky on their views on their community. Now we would like to know your views. In general, how would you rate your community? Please rate each item (**very good, good, fair, poor, very poor**) by checking the appropriate box.

Between 245 to 250 residents responded to the following questions:	Very				Very	Don't
	Good	Good	Fair	Poor	Poor	Know
• The quality of local government is	4 (%)	14	46	28	6	2
• The quality of the natural environment (air, water, soil, etc) in our community is...	3 (%)	28	35	22	10	1
• Job opportunities in the community are	2 (%)	4	13	39	42	0
• Outdoor recreational opportunities are	4 (%)	14	24	34	23	0
• The coal economy in this community is	12 (%)	33	34	15	4	2
• The quality of life in this community is	5 (%)	31	42	15	6	1
• As a place to raise children, this community is	15 (%)	36	28	13	8	0
• Opportunities for young people are	1 (%)	2	11	43	42	4

Also in our survey of Martin and Perry County residents, many people expressed various community concerns. Now we'd like to find out how much of a problem the following are for you in your community. Please rate each item, by checking the appropriate box based on the following scale (**not a problem at all, a slight problem, a moderate problem, a serious problem**).

Between 239 and 254 residents Responded to the following questions:	Not a				Don't Know
	problem at all	A Slight problem	A Moderate Problem	A Serious Problem	
• Economic Growth	5 (%)	12	21	59	3
• County government	6 (%)	26	35	37	6
• City government	13(%)	19	29	24	15
• State government	12 (%)	26	38	18	7
• Crime / Drugs	1 (%)	9	20	69	1
• Coal Waste	9 (%)	23	31	24	12
• Unemployment	1(%)	10	20	66	2
• Education	21 (%)	24	26	26	3
• Health Problems	6 (%)	20	32	39	3
• Environment	12 (%)	33	27	24	5
• Housing	17 (%)	25	31	24	4
• Drinking Water	26 (%)	21	24	28	2
• Sewage	27 (%)	17	21	33	3
• Garbage	26 (%)	18	22	33	1

Question Set II: HOW SERIOUS ARE THE FOLLOWING RISKS?

The following survey items were developed in light of the specific goals and objectives of the Coal Impoundment Project led by Wheeling Jesuit University. We would like you to please take a moment to respond to them. **On a scale from 1 to 10 with 1 being “not serious at all” and 10 being “very serious” how serious are the risks THAT YOU FACE EACH YEAR from...** (Please check the appropriate box from either 1 to 10 for each item).

Between 209 and 248 residents responded to the following questions	Not at all serious									Very serious	Don't know *
	1	2	3	4	5	6	7	8	9	10	
• Accidents at Home	43%	20	12	6	12	3	1	0	0	2%	
• Accidents on the Job	25%	9	9	10	16	10	6	5	0	9%	
• Coal waste impoundments	20%	11	8	5	17	9	5	5	3	17%	
• Coal trucks	6%	7	4	8	9	7	11	9	2	38%	
• Abandoned mine sites	16%	7	10	4	14	8	7	7	4	25%	
• Active mine sites	23%	12	11	5	15	5	6	9	2	12%	
• Exposure to hazardous chemicals from mining activities	27%	9	10	7	10	6	6	9	3	14%	
• Exposure to hazardous chemicals in watershed and water supply	23%	10	7	6	12	6	5	7	4	21%	
• Oil and gas exploration and drilling	22%	14	11	7	14	8	5	5	2	12%	
• Flooding and flash flooding	6%	5	2	4	10	5	9	7	7	45%	
• Other natural hazards (Winter storms, tornados etc.)	25%	14	10	11	14	8	6	3	1	8%	
• Other man-made hazards (Hazardous material spills, fire, shortages of critical resources etc.)	23%	14	8	11	12	5	5	6	3	12%	
• Terrorism	49%	12	10	6	8	1	3	1	2	7%	

Question Set III: WHAT ARE YOUR VIEWS ON COAL WASTE IMPOUNDMENTS?

The following statements focus on the possible risks possibly associated with coal waste impoundments in the Appalachian region and were developed in light of the goals and objectives of the Coal Impoundment Project led by Wheeling Jesuit University. We would like to know the extent to which you disagree or agree with each statement based on the following scale (**strongly disagree, disagree, neutral, agree, strongly agree, and don't know**). Please check the appropriate box for each item.

Between 251 and 253 residents responded to the following questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't know
• Engineers understand the risks	9 (%)	13	18	35	13	12
• The coal company understands the risks	10 (%)	16	14	35	15	10
• State regulatory officials understand the risks	9 (%)	15	15	36	15	9
• Federal regulatory officials understand the risks	11 (%)	14	13	36	15	11
• People living near the impoundment are prepared for the risks	32 (%)	32	11	6	4	14
• Emergency preparedness and response plans for coal waste impoundments are adequate	26 (%)	32	13	8	2	19
• People and county personnel living near the impoundment can control and monitor the risks	24 (%)	30	12	13	3	18
• People dread living near the impoundment	5 (%)	6	16	34	24	15
• The impoundment poses a serious risk to future generations	5 (%)	7	13	33	24	16
• The economic benefits outweigh the risks	15 (%)	25	19	13	7	20
• An impoundment break would involve certain death	3 (%)	9	13	32	23	18
• An impoundment break would kill many people at one time.	3 (%)	8	14	28	25	20

Question Set IV: WHAT ARE YOUR VIEWS ON THE COAL INDUSTRY AND THE FOLLOWING AGENCIES?

Many people we interviewed in Martin County after the October 2000 coal waste spill expressed various views on how the spill was handled by various groups and agencies. People in your community might share or hold different views. Please tell us how you feel by rating each statement (**strongly disagree, disagree, neutral, agree, strongly agree or don't know**) by checking the appropriate box.

Between 251 and 253 residents responded to the following questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't know
• I have trust in the coal company.	28 (%)	27	25	12	4	4
• I have trust in local government.	18 (%)	37	24	17	1	4
• I have trust in the State agencies.	15 (%)	33	26	20	1	3
• I have trust in spill clean-up companies.	18 (%)	23	27	19	2	10
• I have trust in the federal Environmental Protection Agency (EPA).	14 (%)	19	27	30	3	7
• I have trust in the federal Mine Safety and Health Administration (MSHA).	12 (%)	21	25	30	5	6
• I have trust in emergency responders.	7 (%)	13	28	40	7	5
• I have trust in the Emergency Preparedness and Response Plan for the coal waste impoundment in my community.	18 (%)	23	25	13	3	17

Question Set V: WE WOULD ALSO LIKE TO KNOW YOUR VIEWS ON THE FOLLOWING.

In our field interviews with residents in Martin County, people suggested ways that the mining industry and regulatory agencies could make coal waste impoundments safer and more acceptable to local residents. How important are the following to you with regard to the impoundment near your community? Please rate each item (**strongly disagree, disagree, neutral, agree, strongly agree or don't know**) by checking the appropriate box.

Between 248 and 254 residents responded to the following questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't know
• The federal government should set stricter mining standards.	4 (%)	11	16	38	24	6
• A local committee should have the power to shut down the impoundment if they decide it is unsafe.	6 (%)	15	12	36	24	6
• The mining industry should provide the community with an emergency safety plan.	0 (%)	2	5	48	43	2
• An impartial inspector should be at the mining site at all times.	4 (%)	14	15	40	23	4
• The mining industry should contribute more financially for improving community facilities (schools, parks, sewage systems).	2 (%)	8	15	35	38	3
• The coal company should protect property values in communities downstream of the coal waste site.	1 (%)	2	7	45	44	1
• The coal company should dredge the creeks of sludge and silt.	2 (%)	4	8	40	43	2
• The mining industry should establish a local outreach office in town to keep residents informed of mining activities.	1 (%)	4	18	42	31	3
• The mining industry is already well regulated by federal and state agencies.	11 (%)	19	25	24	10	11
• The mining industry should explore other (cleaner) technologies to wash coal.	2 (%)	2	18	43	27	8
• The mining industry should invest in technologies to cleanup sludge spills.	1 (%)	2	6	49	38	3
• Current mining laws should be better enforced.	1 (%)	4	9	39	41	6

Question Set VI: WHAT ARE YOUR VIEWS ON THE FOLLOWING OTHER ISSUES?

During our field interviews with Martin County residents, some citizens had opinions on other issues that may (or may not) be related to coal waste impoundments. By responding to the next set of statements, we would like to know your views on some of these other issues. Please rate each item (**strongly disagree, disagree, neutral, agree, strongly agree or don't know**) by checking the appropriate box.

Between 248 and 254 residents responded to the following questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't know
• We may never know the extent of the damage caused by the coal waste spill in Martin County, Kentucky.	1 (%)	7	10	44	23	16
• Impounding coal waste is the best storage and disposal method.	10 (%)	16	19	10	4	40
• Coal waste impoundments stimulate local economic growth.	17 (%)	22	20	13	2	26
• With so many experts telling us what is safe and what is not, one really doesn't know what to believe.	1 (%)	6	9	53	26	6
• Emergency preparedness and response plans for coal waste impoundments are adequate.	16 (%)	24	15	10	3	31
• People have the right to change the natural environment to meet their needs.	20 (%)	23	19	20	6	12
• Poor water quality is associated with poor health in my community	3 (%)	14	13	32	21	16
• There is little chance that the coal waste impoundment near <u>my community</u> will rupture in the future.	16 (%)	22	10	15	4	33
• The coal industry provides jobs and economic opportunity to local people in my community.	3 (%)	6	10	47	24	9
• There is no use in contacting public officials because they aren't interested in the average person.	3 (%)	12	15	35	23	11
• Coal sludge is not hazardous.	41 (%)	35	5	4	3	12
• I know about the emergency response procedures in my community if the local impoundment were to rupture in the future.	24 (%)	31	7	5	3	31
• The economic benefits associated with coal and coal waste impoundments outweigh the risks.	17 (%)	25	18	12	5	22

Question Set VII: WHAT ARE YOUR VIEWS ON YOUR DRINKING WATER?

In other field interviews with other residents in Martin County, some citizens expressed some concerns with the drinking water supply in their county. Some offered suggestions on improving water quality. Now we would like to know your views on the drinking water supply in your community and how important the following water quality and water treatment issues are to you. Please rate each item (**strongly disagree, disagree, neutral, agree, strongly agree or don't know**) by checking the appropriate box.

Between 248 and 254 residents responded to the following questions	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	Don't Know
• The water from my faucet is always of good quality	16 (%)	27	13	30	10	4
• The water treatment facility should enforce stricter water quality standards.	3 (%)	7	14	41	24	9
• An independent citizen's committee should monitor and test water quality.	2 (%)	7	21	43	20	6
• The water treatment facility does a good job of meeting water quality standards	7 (%)	17	19	27	7	23
• The mining industry should contribute financially to independent tests of water quality.	3 (%)	7	12	47	25	7
• Coal severance taxes should be used to upgrade the water facility.	2 (%)	7	18	39	24	11
• Our home purchases distilled and bottled water	7 (%)	13	10	39	28	4

Question Set VIII: CAN YOU PLEASE TELL US A LITTLE ABOUT YOURSELF?
FOR ANALYSIS AND COMPARISON PURPOSES

The following basic questions might help us understand some differences in opinions and experiences among residents across communities in Kentucky and West Virginia. These differences and similarities might be important in identifying clusters of concerns among different groups of citizens and subsequently targeting better policy. Could we ask you to please take just several more minutes to respond to each item? When checking the appropriate box for each question, please check only one box for analysis reasons.

1. Male ___49%__		2. Female_51%_____	
<ul style="list-style-type: none"> Age _____ (please write in number of years) 			
<ul style="list-style-type: none"> How long have you lived in this county? 		_____ Years (Please write in number of years)	
<ul style="list-style-type: none"> Where do you live closer to? 	1. Kermit 10%	2. Williamson 23%	3. Delbarton 11%
	4 Gilbert 22%	5. Pineville 30%	6. Neither 5%
<ul style="list-style-type: none"> How many years of schooling do you have? 		_____ Years of school. (Please include years in public school, high school as well as college)	
<ul style="list-style-type: none"> Do you own or rent your home? 		1. Own 88%	2. Rent 8%
		3. Neither 4%	
<ul style="list-style-type: none"> Which of the following categories best describes your home? 			
1. Single family home 76%	2. Mobile Home 20%	3. Apartment 3%	4. Other Specify 1% _____
<ul style="list-style-type: none"> How do you draw your water? 	1. public water system 66%	2. private well 33%	3. Other Specify 1% _____
<ul style="list-style-type: none"> How many children (under 18) live with you in your home? <p style="text-align: center;"><u>60% no children present/ 40% 1 or more children</u> <i>If there are no children under the Age of 18 present, please write "0"</i></p>			

<ul style="list-style-type: none"> Is any person in your family involved in the mining industry-either through being employed, the sale of mineral rights, or through other business-related activities? 						1. Yes 54%	2. No 46%
<ul style="list-style-type: none"> What is your employment status? <i>For analysis reasons, please check only one box that best applies.</i> 							
1. Employed, Full time 31%	2. Housewife 16%	3. Employed, Part time 3%	4. Unemployed 4%	5. Retired 18%	6. Disabled 24%	7. Self Employed 3%	
<ul style="list-style-type: none"> We realize that asking for information on income is a sensitive topic, but we certainly would appreciate your response. For the year 2004, what general category best represents your <u>household</u> income <i>before</i> taxes? 							
Under \$10,000 10%	\$10,000-\$20,000 22%	\$21,000 -\$40,000 32%	\$41,000-\$60,000 19%	Over \$60,000 17%			
<ul style="list-style-type: none"> Did you vote in the last local election? 			Yes 78%	No 22%			
<ul style="list-style-type: none"> Do you consider yourself active in community affairs? 		Not Active 33%	Somewhat Active 55%	Very Active 13%			
<ul style="list-style-type: none"> If you could live any place in the United States you wanted to, would you choose the area where you are living now? 							
Definitely Yes 24%		Probably Yes 29%		Probably Not 28%		Definitely Not 19%	
<ul style="list-style-type: none"> Do you expect to live most of the rest of your life in this community? 							
				1. Yes 84%	2.No 16%		
<ul style="list-style-type: none"> <i>Prior to this Survey</i>, were you aware that there was a coal waste impoundment near your community? 				1. Yes 67%	2.No 33%		
<ul style="list-style-type: none"> <i>Prior to the Spill in Martin County, Kentucky</i>, were you aware that there was a coal waste impoundment near your community? 				1. Yes 64%	2.No 36%		