

# **Environmental Justice and Community Impact Report**

US 641 Highway Project  
Relocation from  
Eddyville to Fredonia  
Kentucky

February 2004

**Pennyrile Area Development District  
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## INTRODUCTION

This Environmental Justice and Community Impacts Report is to be used as a component of an Alternatives Study for the relocation or reconstruction of US 641 from Eddyville in Lyon County to Fredonia in Caldwell County. Roadwork on US 641 between Marion and Fredonia was intended to upgrade the road for industrial use, and the relocation or reconstruction of US 641 from Eddyville to Fredonia continues the effort to make Crittenden County more accessible for industry. *Map 1, US 641 Planning Study* shows the study area for this project. The study is intended to better define the location and purpose of the project and better meet federal requirements regarding consideration of environmental issues as defined in the National Environmental Policy Act (NEPA).

The Pennyriple Area Development District's Regional Transportation Council, and the District 1 Highway Office have given this project a priority rating of "high" during the 2003 prioritization process. The 2000 Census identifies three census tracts in Caldwell County, three census tracts in Crittenden County, two census tracts in Livingston County, and two census tracts in Lyon County. For the purposes of this project, the following census tracts are illustrated on *Map 2, Census Tracts and Block Groups in Study Area*:

- 9601 (001, 002, 003, 004, 005) – Lyon County
- 9602 (001) – Lyon County
- 9801 (001, 002) – Caldwell County
- 9802 (003, 004, 005) – Caldwell County
- 9803 (004) – Caldwell County
- 402 (005) – Livingston County
- 9904 (002) – Crittenden County

## POPULATION BY RACE

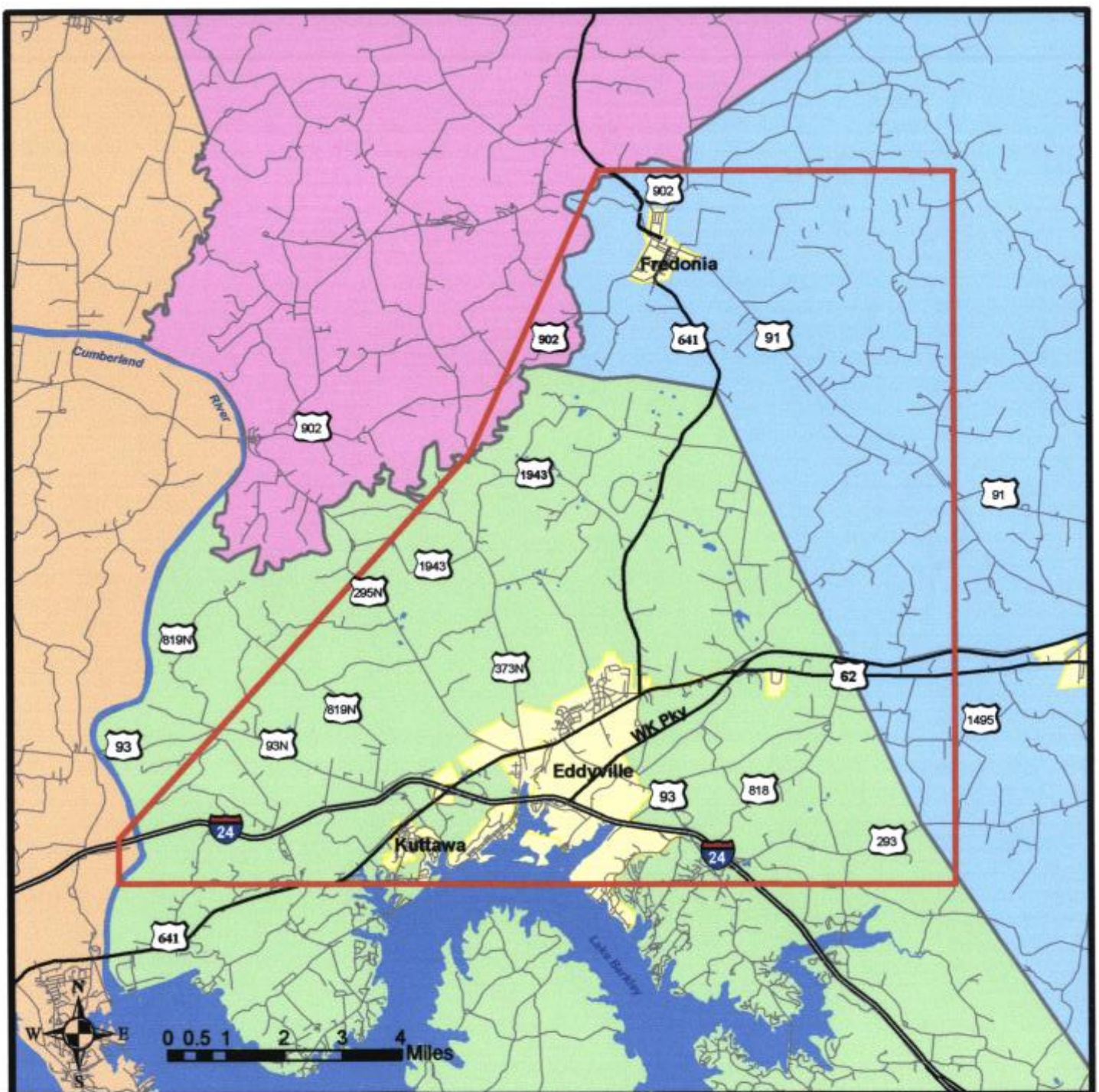
Comparing the figures in Table 1A to those in Table 1B, few proportions differ from national and state levels. Lyon County's block group 001 in tract 9601 is 15.3% Black. This is higher than the 12.3% national Black population. The difference becomes more prevalent in the comparison of the state and county levels of 7.3% and 6.7% respectively. Tract 9601 as a whole is 8.4% Black, which is lower than the national percentage (12.3%) and higher than the state percentage (7.3%). Block group 002 in tract 9601, with a Black population of 11.5%, falls into the same category, having a Black population under the national average but higher than the state average. The averages in tract 9601, block groups 001 and 002 appear to be elevated because of the Prison Farm located in this area. The location of the prison accounts for what looks like a concentration of a Black population. In Caldwell County, tract 9802 has a Black population of 9.9%, which also falls between the national and state averages; however, block groups 003, 004, and 005 of census tract 9802 all have Black populations lower than the national, state, and county percentages.

Census tract 9601, block group 004 in Lyon County has an American Indian population of 1.0%, one tenth of a percentage point higher than the national average of 0.9%. Despite this,

census tract 9601 as a whole is 0.3% American Indian, equal to the county average and one third of the national average. Census tract 402 in Livingston County is 0.5% American Indian, which falls between the national average of 0.9% and the state average of 0.2%. Block group 005 of census tract 402 is 0.6% American Indian, also between the national and state averages.

Each of the other census tracts and block groups show no significant difference in population composition according to race within the project area. The minority percentages are comparable or lower than state and national levels.

Members of the project area community focus group were consulted to confirm this conclusion about the study area. They did not recognize any minority concentrations that seemed higher than average. It appears that this project would have little impact on minority communities in Caldwell, Crittenden, Livingston, and Lyon Counties.

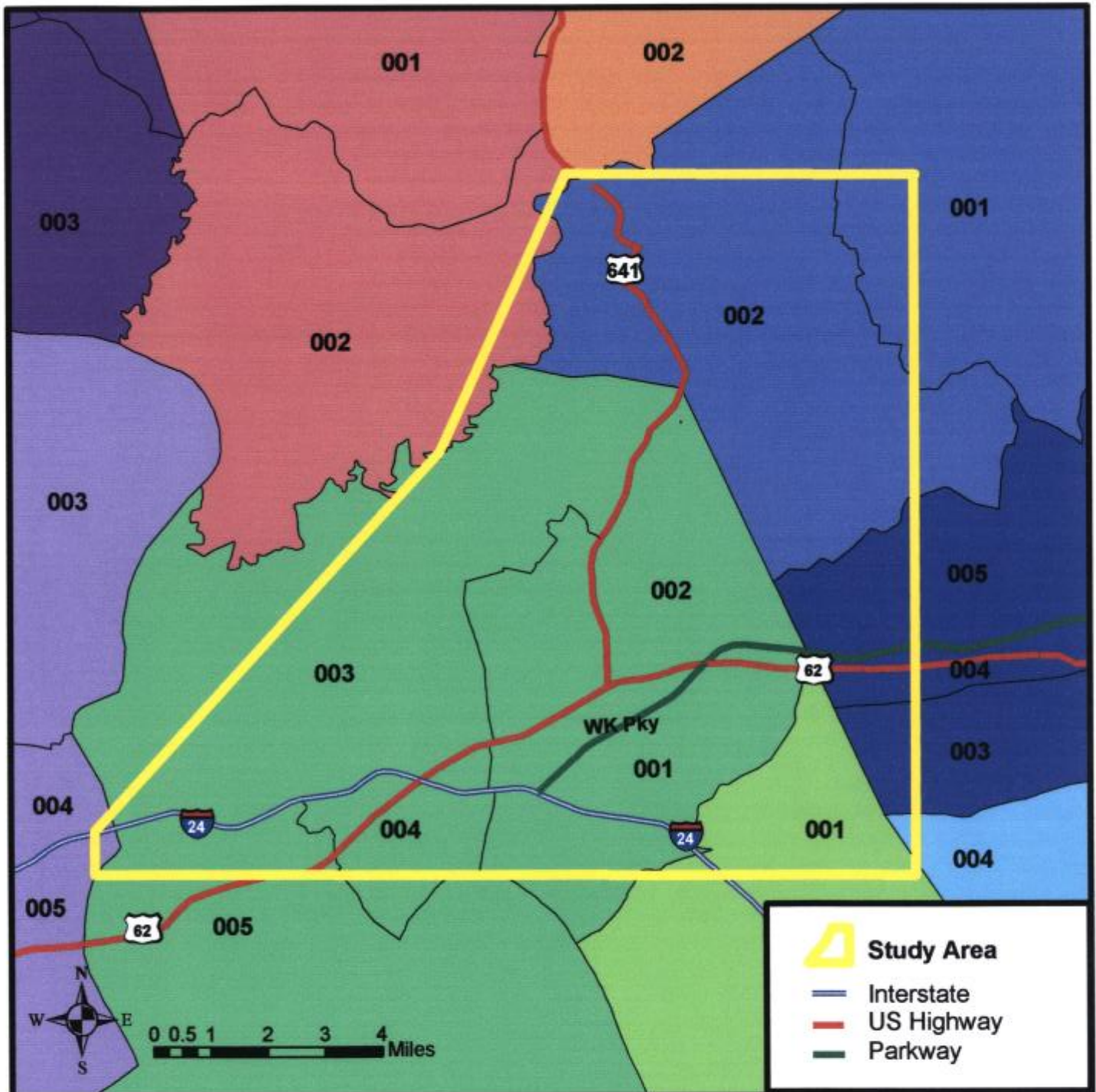


**Map 1: US 641 Planning Study**

-  Study Area
-  Other Roads
-  I-24
-  US 62/US 641/  
WK Parkway
-  Caldwell County
-  Crittenden County
-  Water Bodies
-  Livingston County
-  Lyon County
-  City Limits

Prepared by: Pennyriple Area Development District, Planning Department, August 2003





**Map 2: Census Tracts and Block Groups in Study Area**

**Caldwell Tracts**

- 9801
- 9802
- 9803

**Crittenden Tracts**

- 9901
- 9904

**Lyon Tracts**

- 9601
- 9602

**Livingston Tracts**

- 0402
- 0401

**Block Groups are labeled (ex. 001) individually inside each Tract**

## **POPULATION BY POVERTY LEVEL**

The poverty levels of the population in the study area were compared to the overall poverty levels of the Counties, the State of Kentucky and the nation. Table 2A indicates that 12% of the national population is below the poverty level. Kentucky has a higher population poverty level of 15.4%. Table 2B indicates some tracts and block groups with significantly higher percentages below the poverty level. Census tract 9802 in Caldwell County including block group 004 has a high poverty level. Although this block group has an elevated concentration of individuals age 0-17 below the poverty level, only a minimal part of the block group is included in the project area. The concentration of individuals below the poverty level is located outside of the project study area. Census tract 9802 has a population of 21.2% below the poverty level. Block groups 003, 004, and 005 have poverty levels of 18.8%, 34.0%, and 20.9% respectively. Other census tracts and block groups in Caldwell County were higher than the national average but lower than both the state and county averages: block group 002 of census tract 9801, census tract 9803, and specifically block group 004 of census tract 9803.

Several block groups in Lyon County were also identified to have poverty levels between the national and state averages. In census tract 9601, block group 003 has a poverty level of 12.9% and block group 005 has a level of 12.7%. Block group 001 in census tract 9602 has a poverty level of 14.4%. These percentages are slightly above the national average of 12.0% and county level of 10.3%, but are lower than the state average of 15.4%. These percentages are slightly above the national and county averages due to a concentration of trailer parks in the census block. This concentration of trailer parks will not be directly affected by the project.

Members of the project area community focus group were consulted to confirm this conclusion about the study area. They did not recognize any significant concentrations of the population below the poverty level that would be directly affected by the project. It appears that this project would have little impact on populations below the poverty level in Caldwell, Crittenden, Livingston, and Lyon Counties.

## **POPULATION BY AGE GROUP**

The age levels of the population in the study area were compared to the overall age levels of the counties, the State of Kentucky and the nation. Examining Tables 3A and 3B shows that some block groups in the study area have a slightly higher percentage of people age 18-64 and consistently higher percentages of the population over 65. This is consistent with the percentages of the population for each of the counties involved because of the increased number of retired individuals moving to the lakes area. The national population over 65 was 12.4% and the state level was 12.5%. Caldwell, Crittenden, Livingston, and Lyon Counties all exceeded the national and state averages for population over 65.

Members of the project area community focus group were consulted to confirm this conclusion about the study area. They did not recognize any significant concentrations of



individuals of a particular age group. It appears that this project would have little impact on populations of a particular age group in Caldwell, Crittenden, Livingston, and Lyon Counties.

Table 1A - Comparison Table for 2000 Population by Race: Nation, State, Counties													
Political/Census Division	White	Percent of Population	Black	Percent of Population	American Indian	Percent of Population	Asian	Percent of Population	Hispanic*	Percent of Population	Other	Percent of Population	Total Population
United States	211,460,626	75.1%	34,658,190	12.3%	2,475,956	0.9%	10,242,998	3.6%	35,305,818	12.5%	22,584,136	8.0%	281,421,906
Kentucky	3,640,889	90.1%	295,994	7.3%	8,616	0.2%	29,744	0.7%	59,939	1.5%	66,526	1.6%	4,041,769
Caldwell County	12,262	93.9%	628	4.8%	19	0.1%	21	0.2%	80	0.6%	130	1.0%	13,060
Crittenden County	9,219	98.2%	61	0.7%	14	0.1%	8	0.1%	48	0.5%	82	0.9%	9,384
Livingston County	9,656	98.5%	14	0.1%	41	0.4%	3	0.0%	74	0.8%	90	0.9%	9,804
Lyon County	7,422	91.9%	543	6.7%	24	0.3%	14	0.2%	59	0.7%	77	1.0%	8,080

Table 1B - 2000 Population by Race: Census Tracts and Block Groups within and near the Study Area													
Census Block Group	White	Percent of Population	Black	Percent of Population	American Indian	Percent of Population	Asian	Percent of Population	Hispanic*	Percent of Population	Other	Percent of Population	Total Population
Tract 9801-Caldwell	2,200	98.5%	15	0.7%	2	0.1%	2	0.1%	9	0.4%	15	0.7%	2,234
Block Group 001	1,198	99.1%	0	0.0%	2	0.2%	2	0.2%	1	0.1%	7	0.6%	1,209
Block Group 002	1,002	97.8%	15	1.5%	0	0.0%	0	0.0%	8	0.8%	8	0.8%	1,025
Tract 9802-Caldwell	4,625	88.4%	516	9.9%	9	0.2%	10	0.2%	42	0.8%	70	1.3%	5,230
Block Group 003	1,124	96.2%	30	2.6%	0	0.0%	4	0.3%	3	0.3%	11	0.9%	1,169
Block Group 004	811	94.2%	35	4.1%	1	0.1%	3	0.3%	7	0.8%	11	1.3%	861
Block Group 005	1,429	98.9%	3	0.2%	3	0.2%	0	0.0%	4	0.3%	10	0.7%	1,445
Tract 9803-Caldwell	5,437	97.2%	97	1.7%	8	0.1%	9	0.2%	29	0.5%	45	0.8%	5,596
Block Group 004	1,054	98.1%	10	0.9%	3	0.3%	1	0.1%	3		6	0.6%	1,074
Tract 9904-Crittenden	1,811	98.8%	0	0.0%	4	0.2%	7	0.4%	8	0.4%	11	0.6%	1,833
Block Group 002	764	99.1%	0	0.0%	0	0.0%		0.0%	7	0.9%	7	0.9%	771
Tract 402-Livingston	6,524	98.5%	7	0.1%	33	0.5%	2	0.0%	57	0.9%	60	0.9%	6,626
Block Group 005	1,010	98.2%	0	0.0%	6	0.6%	0	0.0%	4	0.4%	12	1.2%	1,028
Tract 9601-Lyon	5,789	90.1%	540	8.4%	21	0.3%	13	0.2%	45	0.7%	60	0.9%	6,423
Block Group 001	1,348	83.7%	246	15.3%	0	0.0%	3	0.2%	14	0.9%	14	0.9%	1,611
Block Group 002	1,743	86.8%	230	11.5%	7	0.3%	5	0.2%	20	1.0%	23	1.1%	2,008
Block Group 003	996	94.1%	45	4.3%	6	0.6%	4	0.4%	8	0.8%	7	0.7%	1,058
Block Group 004	807	96.6%	17	2.0%	8	1.0%	0	0.0%	1	0.1%	3	0.4%	835
Block Group 005	895	98.2%	2	0.2%	0	0.0%	1	0.1%	2	0.2%	13	1.4%	911
Tract 9602-Lyon	1,633	98.6%	3	0.2%	3	0.2%	1	0.1%	14	0.8%	17	1.0%	1,657
Block Group 001**	1,633	98.6%	3	0.2%	3	0.2%	1	0.1%	14	0.8%	17	1.0%	1,657

\*Population of Hispanic Origin is included as White. Source: 2000 U.S. Census

Table 2A - Comparison Table for 1999 Population by Poverty Level: Nation, State, Counties								
Political/Census Division	Population Below Poverty Level	% of Total Population	Age 0-17	% of Total Population	Age 18-64	% of Total Population	Age 65+	% of Total Population
United States	33,899,812	12.0%	11,746,858	4.2%	18,865,180	6.7%	3,287,774	1.2%
Kentucky	621,096	15.4%	203,547	5.0%	350,072	8.7%	67,477	1.7%
Caldwell County	2,031	15.6%	595	4.6%	1,092	8.4%	344	2.6%
Crittenden County	1,766	18.8%	670	7.1%	872	9.3%	224	2.4%
Livingston County	994	10.1%	244	2.5%	529	5.4%	221	2.3%
Lyon County	831	10.3%	221	2.7%	452	5.6%	158	2.0%

Table 2B - 1999 Population by Poverty Level: Census Tracts and Block Groups within the Study Area								
Census Block Group	Population Below Poverty Level	% of Total Population	Age 0-17	% of Total Population	Age 18-64	% of Total Population	Age 65+	% of Total Population
Tract 9801-Caldwell	214	9.6%	47	2.1%	129	5.8%	38	1.7%
Block Group 001	84	6.9%	10	0.8%	51	4.2%	23	1.9%
Block Group 002	130	12.9%	37	3.7%	78	7.7%	15	1.5%
Tract 9802-Caldwell	1,109	21.2%	335	6.4%	613	11.7%	161	3.1%
Block Group 003	218	18.8%	59	5.1%	123	10.6%	36	3.1%
Block Group 004	259	34.0%	105	13.8%	110	14.5%	44	5.8%
Block Group 005	300	20.9%	86	6.0%	183	12.8%	31	2.2%
Tract 9803-Caldwell	708	12.7%	213	3.8%	350	6.3%	145	2.6%
Block Group 004	161	15.0%	34	3.2%	72	6.7%	55	5.1%
Tract 9904-Crittenden	206	11.2%	62	3.4%	79	4.3%	65	3.5%
Block Group 002	32	4.0%	0	0.0%	25	3.1%	7	0.9%
Tract 402-Livingston	596	9.0%	118	1.8%	344	5.2%	134	2.0%
Block Group 005	89	8.8%	8	0.8%	67	6.6%	14	1.4%
Tract 9601-Lyon	592	9.2%	145	2.3%	323	5.0%	124	1.9%
Block Group 001	104	6.5%	21	1.3%	54	3.4%	29	1.8%
Block Group 002	181	9.0%	33	1.6%	105	5.2%	43	2.1%
Block Group 003	137	12.9%	48	4.5%	76	7.2%	13	1.2%
Block Group 004	54	6.5%	7	0.8%	37	4.4%	10	1.2%
Block Group 005	116	12.7%	36	4.0%	51	5.6%	29	3.2%
Tract 9602-Lyon	239	14.4%	76	4.6%	129	7.8%	34	2.1%
Block Group 001**	239	14.4%	76	4.6%	129	7.8%	34	2.1%

\*Population of Hispanic Origin is included as White. Source: 2000 U.S. Census

\*\* Census Tract 9602 consists of only one Block Group.

Table 3A - Comparison Table for 2000 Population by Age Group: Nation, State, & Counties							
Political/Census Division	Age 0-17	Percent of Total	Age 18-64	Percent of Total	Age 65+	Percent of Total	Total
United States	72,293,812	25.7%	174,136,341	61.9%	34,991,753	12.4%	281,421,906
Kentucky	994,818	24.6%	2,542,158	62.9%	504,793	12.5%	4,041,769
Caldwell County	2927	22.4%	7785	59.6%	2,348	18.0%	13,060
Crittenden County	2178	23.2%	5677	60.5%	1,529	16.3%	9,384
Livingston County	2188	22.3%	6153	62.8%	1463	14.9%	9,804
Lyon County	1275	15.8%	5448	67.4%	1357	16.8%	8,080

Table 3B - 2000 Population by Age Group: Census Tracts and Block Groups within the Study Area							
Census Block Group	Age 0-17	Percent of Total	Age 18-64	Percent of Total	Age 65+	Percent of Total	Total
Tract 9801-Caldwell	515	23.1%	1382	61.9%	337	15.1%	2,234
Block Group 001	239	19.5%	786	64.2%	199	16.3%	1,224
Block Group 002	276	27.3%	596	59.0%	138	13.7%	1,010
Tract 9802-Caldwell	1207	23.1%	3053	58.4%	970	18.5%	5,230
Block Group 003	334	28.6%	618	52.9%	216	18.5%	1,168
Block Group 004	159	18.2%	511	58.6%	202	23.2%	872
Block Group 005	302	20.8%	930	64.2%	217	15.0%	1,449
Tract 9803-Caldwell	1197	21.4%	3358	60.0%	1041	18.6%	5,596
Block Group 004	191	17.8%	661	61.6%	221	20.6%	1,073
Tract 9904-Crittenden	383	20.6%	1148	61.7%	330	17.7%	1,861
Block Group 002	136	17.0%	511	64.0%	152	19.0%	799
Tract 402-Livingston	1520	22.9%	4263	64.3%	843	12.7%	6,626
Block Group 005	157	15.4%	696	68.4%	164	16.1%	1,017
Tract 9601-Lyon	932	14.5%	4470	69.4%	1036	16.1%	6,438
Block Group 001	155	9.6%	1332	82.1%	135	8.3%	1,622
Block Group 002	263	13.1%	1443	71.7%	306	15.2%	2,012
Block Group 003	242	23.1%	685	65.5%	119	11.4%	1,046
Block Group 004	75	8.9%	433	51.5%	333	39.6%	841
Block Group 005	197	21.5%	577	62.9%	143	15.6%	917
Tract 9602-Lyon	332	20.2%	984	59.9%	326	19.9%	1,642
Block Group 001**	332	20.2%	984	59.9%	326	19.9%	1,642

\*Population of Hispanic Origin is included as White. Source: 2000 U.S. Census

\*\* Census Tract 9602 consists of only one Block Group.

## **OTHER POPULATIONS**

There are no other populations identified by community focus group, beyond the Census data obtained, that indicate significant impacts from the US 641 relocation project. This includes any Amish or other religious communities and any other issues of importance to this project area.

## **COMMUNITY IMPACTS**

The relocation/reconstruction of US 641 between Eddyville in Lyon County and Fredonia in Caldwell County continues the effort to make Crittenden County more accessible to industry. Together with the US 641 extension from Fredonia to Marion, these two projects on US 641 will greatly improve transportation within and to Crittenden County.

## **STUDY FINDINGS**

It appears that the US 641 relocation/reconstruction will have little or no impact on minority communities in Caldwell, Crittenden, Livingston, and Lyon Counties.





## **APPENDIX**

### **Study Area US 641 Environmental Justice and Community Impact Report: Community Focus Group Member Contact List**



# Pennyryle Area Development District

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August 12, 2003

(See Dissemination List)

Subject: Study Area US 641 Environmental Justice and Community Impact Report

Hello:

We would appreciate your help in evaluating the study area on the enclosed map. Before the Environmental Justice and Community Impact Report for the US 641 Highway relocation project from Fredonia to Eddyville can be completed, PADD needs to determine which Census Tracts and Block Groups are pertinent for the report. With your approval, we will use the study area shown on the enclosed map. This is the same study area outlined on the Project Location map that was included in the Agenda from the July 29<sup>th</sup> Local Officials Meeting. It spans across four counties and includes the following Census Tracts and Block Groups:

- 9601 (001, 002, 003, 004, 005) – Lyon County
- 9602 (001) – Lyon County
- 9801 (001, 002) – Caldwell County
- 9802 (003, 004, 005) – Caldwell County
- 9803 (004) – Caldwell County
- 402 (005) – Livingston County
- 9904 (002) – Crittenden County

If any of these Tracts or Block Groups are unnecessary for the Environmental Justice and Community Impact Report, or if there are additional Block Groups that you would like to see included, please let us know. If you have any questions, please feel free to phone me at (270) 886-9484, or email me at [jess.reagan@mail.state.ky.us](mailto:jess.reagan@mail.state.ky.us).

Sincerely,

Jess Reagan  
Research Planning Assistant

Enclosure

# **Study Area US 641 Environmental Justice and Community Impact Report**

## **Community Focus Group Member Contact List**

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Eddyville, KY 42038

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Eddyville, KY 42038

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Caldwell County Courthouse  
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Princeton, KY 42445

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