

Appendix B

Traffic Volumes

Capacity Analysis Details

Kentucky Transportation Cabinet

24 Hour Roadway Summary for May 18, 2016

003044, 003-KY-0151 -0000

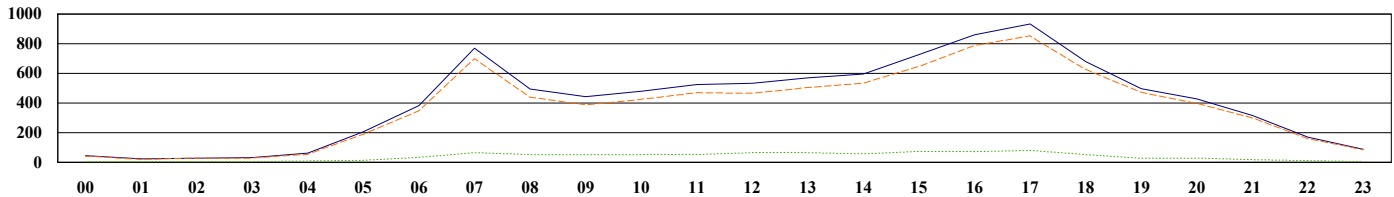
FC16

Anderson County

003-KY-0151 -000 @ .400 From: US 127 AND US 127 BYPASS To: KY 5

	Total	Total	Peak	Peak
Private:	8,940.9	90.5	851.5	91.2
Single:	430.3	4.4	28.7	3.1
Combo:	453.0	4.6	51.7	5.5
Trucks:	883.3	8.9	80.4	8.6
Total:	9,883.6		934.0	

Peak Hour: 17
Axle Factor: 0.94



	VOL	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+
0	45.1	0.4	30.2	10.9	0.3	2.0	0.4	0	0	0.9	0	0	0	0
1	23.2	0.4	13.9	4.3	0.3	2.0	0.4	0	0.4	1.4	0	0	0	0
2	28.7	0	22.0	4.9	0	0.4	0	0	0.4	0.9	0	0	0	0
3	32.4	0.4	22.2	4.9	0.4	2.0	1.2	0	0	1.3	0	0	0	0
4	61.5	0.7	32.7	19.5	0.7	2.0	0.8	0	0	5.1	0	0	0	0
5	205.5	0.4	138.4	50.6	2.4	8.4	3.6	0.4	0.9	0.5	0	0	0	0
6	382.2	0	242.5	103.8	3.8	17.2	0.4	0.8	6.4	6.3	0.9	0	0	0
7	769.6	2.2	516.3	181.0	5.5	22.4	4.8	1.6	24.7	7.6	3.1	0	0	0.4
8	494.1	1.5	309.4	128.7	2.5	21.2	5.6	2.4	12.5	8.1	2.2	0	0	0
9	442.1	2.9	261.9	122.9	4.5	17.2	6.8	2.0	11.6	10.9	1.4	0	0	0
10	478.9	1.8	290.6	130.9	4.1	14.4	5.2	4.4	13.5	12.2	1.4	0	0	0.5
11	524.1	2.9	339.9	125.1	4.5	18.8	6.8	0.8	14.0	9.0	0.9	0.9	0	0.5
12	533.6	3.4	342.6	118.0	5.2	22.9	4.5	4.9	18.8	6.8	4.1	1.3	0	1.1
13	569.7	3.0	355.1	144.7	3.5	25.1	5.6	0.4	16.4	10.0	2.8	1.9	0	1.1
14	595.1	6.5	383.2	144.5	4.9	22.2	5.4	2.4	15.0	7.9	2.1	0.4	0	0.4
15	726.5	5.3	459.9	180.6	7.0	21.4	9.3	2.8	29.9	5.8	3.0	1.5	0	0
16	860.8	2.6	584.4	199.2	4.2	25.5	4.4	2.0	26.1	7.1	3.9	1.1	0	0.4
17	934.0	4.9	649.4	197.2	2.1	21.0	4.9	2.8	40.0	9.2	1.5	1.1	0	0
18	679.4	1.5	469.6	154.2	1.8	15.2	2.8	0.8	25.2	7.3	0.6	0.4	0	0
19	495.7	4.3	355.5	111.0	0	12.4	2.1	0.4	8.3	1.7	0	0	0	0
20	427.1	2.7	291.7	103.4	1.1	13.1	1.6	0.4	7.0	4.9	1.3	0	0	0
21	316.7	1.5	218.3	78.9	0	10.2	0.4	0.4	5.2	1.7	0	0	0	0
22	169.6	0.8	113.7	43.9	0.7	2.9	0.4	0.4	4.1	2.8	0	0	0	0
23	88.2	0	66.1	18.4	0	2.5	0	0	0.6	0.6	0	0	0	0
Total	9,883.6	50.0	6,509.5	2,381.5	59.3	322.3	77.6	30.3	281.0	129.9	29.2	8.6	0	4.4
%	100.0	0.5	65.9	24.1	0.6	3.3	0.8	0.3	2.8	1.3	0.3	0.1	0	0

Kentucky Transportation Cabinet

24 Hour Directional Summary, Pos Bound for May 18, 2016

003044, 003-KY-0151 -0000

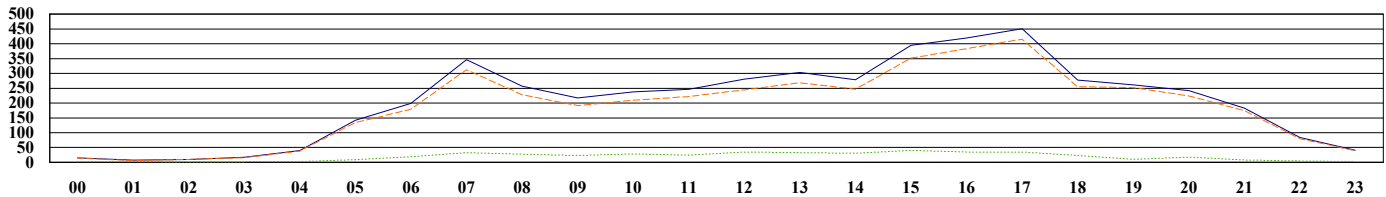
FC16

Anderson County

003-KY-0151 -000 @ .400 From: US 127 AND US 127 BYPASS To: KY 5

	Total	Total	Peak	Peak
Private:	4,484.8	90.6	414.7	92.0
Single:	207.4	4.2	12.3	2.7
Combo:	226.8	4.6	22.2	4.9
Trucks:	434.2	8.8	34.5	7.7
Total:	4,949.2		450.9	

Peak Hour: 17
Axle Factor: 0.94



	VOL	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+
0	15.1	0	10.5	3.8	0	0.8	0	0	0	0	0	0	0	0
1	7.5	0	4.8	1.1	0	1.2	0	0	0	0.5	0	0	0	0
2	9.7	0	7.6	1.7	0	0	0	0	0	0.5	0	0	0	0
3	17.1	0.4	11.9	3.3	0	1.6	0	0	0	0	0	0	0	0
4	39.8	0.7	24.6	11.9	0	0.8	0.8	0	0	0.9	0	0	0	0
5	141.7	0	99.3	33.6	0.7	6.8	0	0.4	0.9	0	0	0	0	0
6	199.0	0	130.8	47.8	2.4	11.2	0.4	0	3.2	2.3	0.9	0	0	0
7	346.0	0.4	240.2	71.8	1.4	9.6	3.2	0.8	11.9	3.6	2.7	0	0	0.4
8	256.7	0.4	170.4	57.0	2.1	8.0	2.4	2.4	7.2	5.4	1.3	0	0	0
9	217.4	1.5	131.1	59.3	3.1	9.6	1.6	0.4	6.2	4.6	0	0	0	0
10	237.7	1.5	147.4	59.7	1.0	5.6	2.4	4.4	6.7	7.2	1.4	0	0	0.5
11	246.8	1.1	159.3	61.1	1.7	8.4	2.0	0.4	6.3	4.6	0.4	0.9	0	0.5
12	281.1	2.6	178.9	62.3	2.4	11.1	2.5	4.1	9.0	3.6	3.0	0.6	0	1.1
13	303.2	0.4	197.5	70.0	3.1	13.5	2.1	0	9.6	4.9	1.3	0.4	0	0.4
14	278.1	3.5	179.6	63.0	2.1	10.7	4.1	2.0	8.1	2.8	1.7	0.4	0	0
15	395.0	1.9	265.2	83.8	4.9	9.5	4.5	2.8	17.1	3.4	1.1	0.9	0	0
16	419.0	1.1	288.1	93.5	2.1	10.6	1.2	2.0	12.4	5.8	2.1	0	0	0
17	450.9	3.0	317.3	94.3	1.8	8.2	1.7	2.4	15.6	5.1	1.5	0	0	0
18	277.8	0.4	189.7	64.6	1.1	4.9	0.4	0	12.8	4.0	0	0	0	0
19	260.9	1.6	191.2	58.9	0	5.4	1.2	0	2.6	0	0	0	0	0
20	242.0	1.6	168.3	54.3	0.4	8.6	1.2	0	2.8	3.6	1.3	0	0	0
21	182.4	0.8	133.0	40.8	0	4.9	0	0	3.0	0	0	0	0	0
22	83.8	0.8	56.2	22.5	0	1.2	0.4	0	1.1	1.5	0	0	0	0
23	40.6	0	32.2	6.3	0	0.8	0	0	0.6	0.6	0	0	0	0
Total	4,949.2	23.4	3,335.1	1,126.3	30.2	153.0	32.2	22.2	137.1	64.8	18.7	3.3	0	2.9
%	100.0	0.5	67.4	22.8	0.6	3.1	0.7	0.4	2.8	1.3	0.4	0.1	0	0.1

Kentucky Transportation Cabinet

24 Hour Directional Summary, Neg Bound for May 18, 2016

003044, 003-KY-0151 -0000

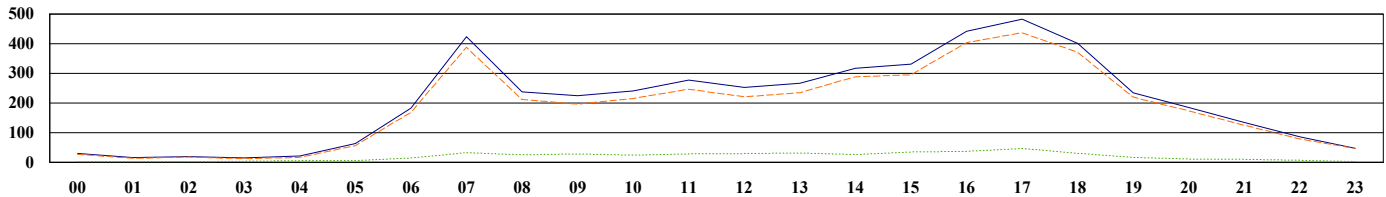
FC16

Anderson County

003-KY-0151 -000 @ .400 From: US 127 AND US 127 BYPASS To: KY 5

	Total	Total	Peak	Peak
Private:	4,456.1	90.3	436.8	90.4
Single:	222.9	4.5	16.4	3.4
Combo:	226.3	4.6	29.5	6.1
Trucks:	449.2	9.1	45.9	9.5
Total:	4,934.4		483.1	

Peak Hour: 17
Axle Factor: 0.94



	VOL	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+
0	30.1	0.4	19.8	7.1	0.3	1.2	0.4	0	0	0.9	0	0	0	0
1	15.7	0.4	9.1	3.3	0.3	0.8	0.4	0	0.4	0.9	0	0	0	0
2	19.0	0	14.5	3.3	0	0.4	0	0	0.4	0.5	0	0	0	0
3	15.3	0	10.3	1.7	0.4	0.4	1.2	0	0	1.3	0	0	0	0
4	21.7	0	8.1	7.6	0.7	1.2	0	0	0	4.2	0	0	0	0
5	63.9	0.4	39.1	17.0	1.7	1.6	3.6	0	0	0.5	0	0	0	0
6	183.1	0	111.7	56.0	1.4	6.0	0	0.8	3.2	4.0	0	0	0	0
7	423.6	1.8	276.1	109.2	4.1	12.8	1.6	0.8	12.7	4.0	0.5	0	0	0
8	237.4	1.1	139.0	71.7	0.4	13.2	3.2	0	5.3	2.7	0.9	0	0	0
9	224.6	1.5	130.7	63.5	1.4	7.6	5.2	1.6	5.4	6.3	1.4	0	0	0
10	241.2	0.4	143.1	71.2	3.1	8.8	2.8	0	6.8	5.0	0	0	0	0
11	277.3	1.8	180.5	63.9	2.8	10.4	4.8	0.4	7.7	4.4	0.5	0	0	0
12	252.5	0.8	163.8	55.7	2.8	11.9	2.1	0.8	9.8	3.2	1.1	0.6	0	0
13	266.5	2.6	157.6	74.7	0.3	11.7	3.6	0.4	6.8	5.1	1.5	1.5	0	0.6
14	316.9	3.1	203.6	81.5	2.8	11.5	1.2	0.4	6.8	5.1	0.4	0	0	0.4
15	331.5	3.4	194.8	96.7	2.1	11.9	4.8	0	12.8	2.4	1.9	0.6	0	0
16	441.8	1.5	296.3	105.8	2.1	14.8	3.2	0	13.7	1.3	1.7	1.1	0	0.4
17	483.1	1.9	332.0	102.9	0.3	12.8	3.3	0.4	24.3	4.1	0	1.1	0	0
18	401.6	1.1	279.9	89.6	0.7	10.3	2.4	0.8	12.4	3.2	0.6	0.4	0	0
19	234.9	2.7	164.3	52.1	0	7.0	0.8	0.4	5.8	1.7	0	0	0	0
20	185.1	1.1	123.4	49.1	0.7	4.5	0.4	0.4	4.3	1.3	0	0	0	0
21	134.3	0.8	85.4	38.1	0	5.3	0.4	0.4	2.2	1.7	0	0	0	0
22	85.8	0	57.5	21.3	0.7	1.6	0	0.4	3.0	1.3	0	0	0	0
23	47.7	0	33.9	12.1	0	1.6	0	0	0	0	0	0	0	0
Total	4,934.4	26.6	3,174.4	1,255.2	29.1	169.3	45.5	8.2	143.8	65.1	10.4	5.3	0	1.5
%	100.0	0.5	64.3	25.4	0.6	3.4	0.9	0.2	2.9	1.3	0.2	0.1	0	0

Kentucky Transportation Cabinet

Daily Volume from 05/18/2016 through 05/20/2016

Site Names: 003044, 003-KY-0151 -0000

County: Anderson

Funct. Class: U Minor Arterial

Location: 003-KY-0151 -000 @ .400 From: US 127 AND US 127 BYPASS To: KY 512

Seasonal Factor Type: 3

Daily Factor Type: 3

Axle Factor Type: 16

Growth Factor Type: 16

	Sun 05/15/2016			Mon 05/16/2016			Tue 05/17/2016			Wed 05/18/2016			Thu 05/19/2016			Fri 05/20/2016			Sat 05/21/2016		
	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS
00:00													53	34	19	32	23	9			
01:00													18	12	6	28	19	9			
02:00													24	15	9	30	21	9			
03:00													31	16	15	32	14	18			
04:00													50	18	32	69	25	44			
05:00													205	66	139	185	57	128			
06:00													387	182	205	337	164	173			
07:00													715	406	309	746	398	348			
08:00													473	239	234	474	216	258			
09:00													413	202	211	438	231	207			
10:00													458	234	224	458	226	232			
11:00													458	246	212	548	288	260			
12:00										461	228	233	501	225	276						
13:00										513	241	272	508	238	270						
14:00										523	270	253	545	297	248						
15:00										634	280	354	668	315	353						
16:00										711	362	349	820	424	396						
17:00										807	398	409	849	458	391						
18:00										539	319	220	661	392	269						
19:00										431	201	230	443	215	228						
20:00										347	152	195	409	175	234						
21:00										238	111	127	323	128	195						
22:00										118	60	58	183	93	90						
23:00										60	33	27	95	51	44						
Volume										5,382	2,655	2,727	9,290	4,681	4,609	3,377	1,682	1,695			
AM Peak Vol													715	406	309	746	398	348			
AM Peak Fct													1.00	1.00	1.00	1.00	1.00	1.00			
AM Peak Hr													7:00	7:00	7:00	7:00	7:00	7:00			
PM Peak Vol										807	398	409	849	458	396						
PM Peak Fct										1.00	1.00	1.00	1.00	1.00	1.00						
PM Peak Hr										17:00	17:00	17:00	17:00	17:00	16:00						
Seasonal Fct										0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962			
Daily Fct										0.961	0.961	0.961	0.941	0.941	0.941	0.872	0.872	0.872			
Axle Fct										0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500			
Pulse Fct										2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000			

Kentucky Transportation Cabinet

24 Hour Roadway Summary for May 18, 2016

003002, 003-KY-0151 -0001.761

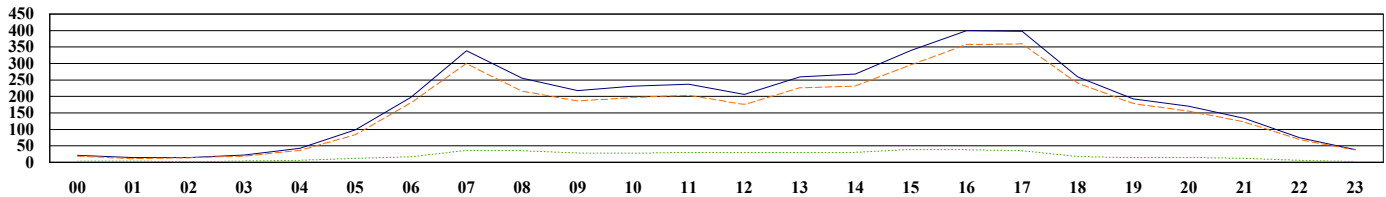
FC6

Anderson County

003-KY-0151 -000 @ 2.700 From: KY 512 To: FRANKLIN COUNTY LI

	Total	Total	Peak	Peak
Private:	3,904.3	88.0	356.6	89.1
Single:	320.0	7.2	24.0	6.0
Combo:	145.7	3.3	14.0	3.5
Trucks:	465.7	10.5	38.0	9.5
Total:	4,434.4		400.0	

Peak Hour: 16
Axle Factor: 0.95



	VOL	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+
0	21.5	0	13.9	4.3	0.4	2.2	0	0	0	0.7	0	0	0	0
1	14.9	1.3	7.4	2.2	0.4	2.2	0.4	0	0	1.0	0	0	0	0
2	14.5	0	10.8	2.7	0	0.7	0	0	0.4	0	0	0	0	0
3	22.6	1.3	14.2	3.1	0.4	1.4	1.1	0	0	1.1	0	0	0	0
4	42.2	0	21.8	13.5	0.9	2.5	0	0	0.3	3.1	0	0	0	0
5	98.9	0	60.5	23.1	3.4	8.3	2.5	0	0.7	0.4	0	0	0	0
6	197.7	1.3	130.7	48.0	1.3	12.6	0.4	0	1.7	1.1	0.7	0	0	0
7	339.0	10.9	217.0	70.9	4.7	17.3	4.3	0.7	9.4	3.5	0.3	0	0	0
8	255.5	6.8	150.8	58.1	4.7	17.0	5.4	3.6	3.8	5.3	0	0	0	0
9	218.1	4.1	122.1	59.5	4.7	13.3	3.5	1.8	3.5	4.5	0.7	0	0	0.3
10	231.4	2.8	142.1	51.8	7.3	11.2	3.6	3.3	2.4	5.9	1.0	0	0	0
11	236.9	6.9	137.4	58.7	4.3	14.4	7.2	0.7	3.4	2.8	1.1	0	0	0
12	206.2	5.3	127.7	42.3	2.0	14.8	2.6	2.6	5.4	3.2	0.4	0	0	0
13	259.2	2.8	161.2	61.6	3.6	17.0	4.4	0.4	4.7	2.5	1.1	0	0	0
14	268.3	4.1	166.6	61.1	6.2	15.5	3.0	1.5	5.4	3.2	1.4	0	0	0.4
15	339.7	8.2	196.7	90.8	4.9	19.6	5.5	1.8	7.2	3.6	1.4	0	0	0
16	400.0	1.4	265.3	89.9	5.4	19.6	3.7	0.7	11.2	2.5	0.4	0	0	0
17	397.5	8.2	275.4	75.3	4.0	16.6	3.3	1.5	10.4	1.8	1.1	0	0	0
18	259.2	2.7	176.9	60.7	1.7	10.0	1.5	0.4	3.2	2.2	0	0	0	0
19	192.9	2.7	132.7	43.1	1.2	8.9	0.4	0.4	2.5	1.1	0	0	0	0
20	170.6	6.6	113.0	35.1	1.6	8.1	1.5	0.4	3.2	1.1	0	0	0	0
21	134.0	1.4	89.5	31.3	0.4	8.1	0	0	1.4	1.8	0	0	0	0
22	74.8	0	50.2	18.4	0.8	3.3	0	0.4	0.7	1.1	0	0	0	0
23	38.6	0	27.6	8.8	0	1.5	0	0	0	0.4	0.4	0	0	0
Total	4,434.4	78.6	2,811.2	1,014.4	64.4	245.9	54.2	20.0	81.2	53.9	9.9	0	0	0.7
%	100.0	1.8	63.4	22.9	1.5	5.5	1.2	0.5	1.8	1.2	0.2	0	0	0

Kentucky Transportation Cabinet

24 Hour Directional Summary, Pos Bound for May 18, 2016

003002, 003-KY-0151 -0001.761

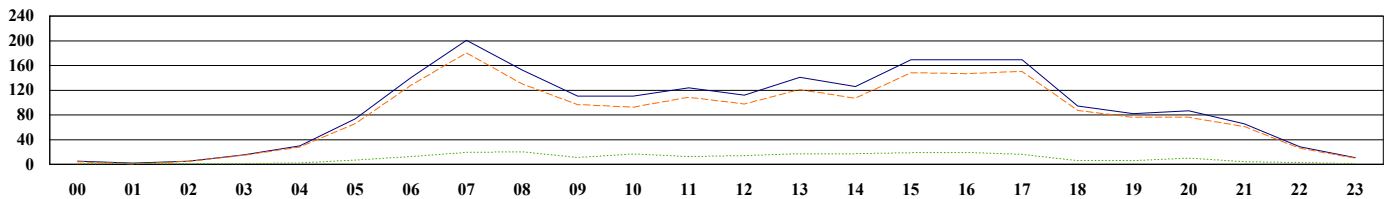
FC6

Anderson County

003-KY-0151 -000 @ 2.700 From: KY 512 To: FRANKLIN COUNTY LI

	Total	Total	Peak	Peak
Private:	1,958.7	88.0	180.0	89.5
Single:	165.1	7.4	14.8	7.3
Combo:	69.1	3.1	4.6	2.3
Trucks:	234.2	10.5	19.3	9.6
Total:	2,225.8		201.0	

Peak Hour: 7
Axle Factor: 0.95



	VOL	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+
0	5.1	0	3.2	1.1	0	0.7	0	0	0	0	0	0	0	0
1	2.2	0	0.4	0.4	0	1.1	0	0	0	0.4	0	0	0	0
2	5.4	0	3.9	0.8	0	0.7	0	0	0	0	0	0	0	0
3	15.7	1.3	10.6	2.7	0	1.1	0	0	0	0	0	0	0	0
4	30.1	0	17.5	10.5	0	1.1	0	0	0	1.1	0	0	0	0
5	73.8	0	46.9	18.8	1.3	5.8	0	0	0.7	0.4	0	0	0	0
6	140.4	1.3	91.3	34.7	0.9	10.8	0.4	0	1.0	0	0	0	0	0
7	201.0	4.3	138.5	37.3	1.7	11.5	2.5	0.7	3.1	1.4	0	0	0	0
8	152.8	2.7	94.0	33.5	2.6	8.7	2.5	3.2	2.8	2.8	0	0	0	0
9	110.3	4.1	63.9	28.7	3.0	6.4	1.1	0.7	1.1	1.1	0.3	0	0	0
10	110.7	2.8	67.7	22.1	1.7	5.8	2.5	3.3	1.0	3.2	0.7	0	0	0
11	123.9	2.7	69.1	36.7	3.0	6.5	1.8	0.4	2.4	0.7	0.7	0	0	0
12	112.1	5.3	66.1	25.9	0.8	6.3	1.8	1.8	2.5	1.4	0	0	0	0
13	140.7	0	88.3	32.7	2.8	11.1	1.1	0.4	2.5	0.7	1.1	0	0	0
14	125.9	4.1	74.5	28.0	2.4	8.9	2.2	1.1	2.2	1.8	0.7	0	0	0
15	169.2	2.8	100.9	44.3	2.4	8.9	3.0	1.5	3.2	1.4	0.7	0	0	0
16	169.5	0	109.6	36.8	4.2	9.2	1.1	0.7	5.0	2.5	0.4	0	0	0
17	169.2	6.7	109.7	33.9	2.8	5.9	1.1	1.5	5.8	0.7	1.1	0	0	0
18	94.6	0	61.1	26.4	1.3	3.0	0	0	1.8	1.1	0	0	0	0
19	82.1	0	55.3	20.5	0.8	3.7	0	0.4	1.1	0.4	0	0	0	0
20	86.5	5.1	52.3	18.4	0.8	5.2	1.5	0	2.2	1.1	0	0	0	0
21	65.5	0	46.8	14.2	0.4	2.6	0	0	1.1	0.4	0	0	0	0
22	28.5	0	18.4	7.5	0	1.8	0	0	0.4	0.4	0	0	0	0
23	10.7	0	8.0	1.7	0	0.4	0	0	0	0.4	0.4	0	0	0
Total	2,225.8	43.2	1,398.1	517.4	32.9	126.9	22.6	15.6	39.9	23.1	6.1	0	0	0
%	100.0	1.9	62.8	23.2	1.5	5.7	1.0	0.7	1.8	1.0	0.3	0	0	0

Kentucky Transportation Cabinet

24 Hour Directional Summary, Neg Bound for May 18, 2016

003002, 003-KY-0151 -0001.761

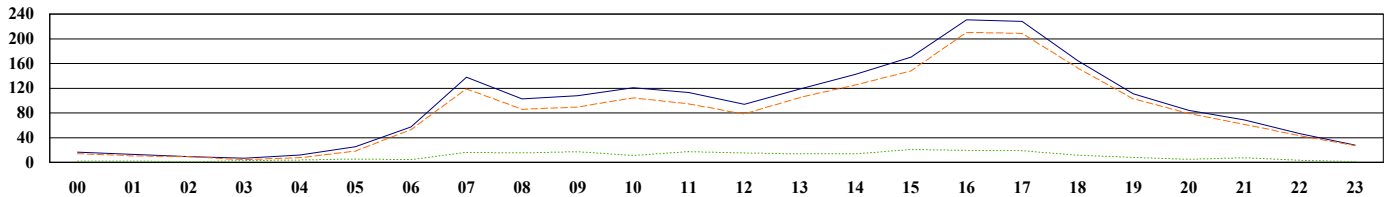
FC6

Anderson County

003-KY-0151 -000 @ 2.700 From: KY 512 To: FRANKLIN COUNTY LI

	Total	Total	Peak	Peak
Private:	1,945.6	88.1	210.2	91.2
Single:	155.0	7.0	12.9	5.6
Combo:	76.6	3.5	6.1	2.7
Trucks:	231.6	10.5	19.0	8.3
Total:	2,208.6		230.5	

Peak Hour: 16
Axle Factor: 0.95



	VOL	MC	CAR	PU	BUS	2D	SU 3	SU 4+	ST 4-	ST 5	ST 6+	MT 5-	MT 6	MT 7+
0	16.4	0	10.7	3.1	0.4	1.5	0	0	0	0.7	0	0	0	0
1	12.7	1.3	7.0	1.9	0.4	1.1	0.4	0	0	0.7	0	0	0	0
2	9.2	0	6.9	1.9	0	0	0	0	0.4	0	0	0	0	0
3	6.9	0	3.6	0.4	0.4	0.4	1.1	0	0	1.1	0	0	0	0
4	12.1	0	4.3	3.1	0.9	1.5	0	0	0.3	2.1	0	0	0	0
5	25.1	0	13.6	4.3	2.1	2.5	2.5	0	0	0	0	0	0	0
6	57.3	0	39.3	13.3	0.4	1.8	0	0	0.7	1.1	0.7	0	0	0
7	138.0	6.6	78.6	33.6	3.0	5.8	1.8	0	6.2	2.1	0.3	0	0	0
8	102.7	4.1	56.8	24.6	2.1	8.3	2.9	0.4	1.1	2.5	0	0	0	0
9	107.8	0	58.2	30.9	1.7	6.9	2.5	1.1	2.5	3.5	0.3	0	0	0.3
10	120.7	0	74.4	29.8	5.6	5.4	1.1	0	1.4	2.8	0.3	0	0	0
11	113.1	4.3	68.3	22.0	1.3	7.9	5.4	0.4	1.0	2.1	0.3	0	0	0
12	94.0	0	61.5	16.3	1.2	8.5	0.7	0.7	2.9	1.8	0.4	0	0	0
13	118.6	2.8	72.8	28.9	0.8	5.9	3.3	0	2.2	1.8	0	0	0	0
14	142.4	0	92.1	33.0	3.8	6.6	0.7	0.4	3.2	1.4	0.7	0	0	0.4
15	170.5	5.3	95.8	46.4	2.5	10.7	2.6	0.4	4.0	2.2	0.7	0	0	0
16	230.5	1.4	155.7	53.1	1.2	10.3	2.6	0	6.1	0	0	0	0	0
17	228.3	1.4	165.7	41.4	1.2	10.7	2.2	0	4.7	1.1	0	0	0	0
18	164.6	2.7	115.8	34.3	0.4	7.0	1.5	0.4	1.4	1.1	0	0	0	0
19	110.8	2.7	77.4	22.6	0.4	5.2	0.4	0	1.4	0.7	0	0	0	0
20	84.0	1.4	60.7	16.7	0.8	2.9	0	0.4	1.1	0	0	0	0	0
21	68.6	1.4	42.7	17.1	0	5.5	0	0	0.4	1.4	0	0	0	0
22	46.3	0	31.8	10.9	0.8	1.5	0	0.4	0.4	0.7	0	0	0	0
23	27.9	0	19.7	7.1	0	1.1	0	0	0	0	0	0	0	0
Total	2,208.6	35.4	1,413.2	497.0	31.5	119.0	31.6	4.4	41.3	30.7	3.9	0	0	0.7
%	100.0	1.6	64.0	22.5	1.4	5.4	1.4	0.2	1.9	1.4	0.2	0	0	0

Kentucky Transportation Cabinet

Daily Volume from 05/18/2016 through 05/20/2016

Site Names: 003044, 003-KY-0151 -0000

County: Anderson

Funct. Class: U Minor Arterial

Location: 003-KY-0151 -000 @ .400 From: US 127 AND US 127 BYPASS To: KY 512

Seasonal Factor Type: 3

Daily Factor Type: 3

Axle Factor Type: 16

Growth Factor Type: 16

	Sun 05/15/2016			Mon 05/16/2016			Tue 05/17/2016			Wed 05/18/2016			Thu 05/19/2016			Fri 05/20/2016			Sat 05/21/2016		
	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS	ROAD	NEG	POS
00:00													53	34	19	32	23	9			
01:00													18	12	6	28	19	9			
02:00													24	15	9	30	21	9			
03:00													31	16	15	32	14	18			
04:00													50	18	32	69	25	44			
05:00													205	66	139	185	57	128			
06:00													387	182	205	337	164	173			
07:00													715	406	309	746	398	348			
08:00													473	239	234	474	216	258			
09:00													413	202	211	438	231	207			
10:00													458	234	224	458	226	232			
11:00													458	246	212	548	288	260			
12:00										461	228	233	501	225	276						
13:00										513	241	272	508	238	270						
14:00										523	270	253	545	297	248						
15:00										634	280	354	668	315	353						
16:00										711	362	349	820	424	396						
17:00										807	398	409	849	458	391						
18:00										539	319	220	661	392	269						
19:00										431	201	230	443	215	228						
20:00										347	152	195	409	175	234						
21:00										238	111	127	323	128	195						
22:00										118	60	58	183	93	90						
23:00										60	33	27	95	51	44						
Volume										5,382	2,655	2,727	9,290	4,681	4,609	3,377	1,682	1,695			
AM Peak Vol													715	406	309	746	398	348			
AM Peak Fct													1.00	1.00	1.00	1.00	1.00	1.00			
AM Peak Hr													7:00	7:00	7:00	7:00	7:00	7:00			
PM Peak Vol										807	398	409	849	458	396						
PM Peak Fct										1.00	1.00	1.00	1.00	1.00	1.00						
PM Peak Hr										17:00	17:00	17:00	17:00	17:00	16:00						
Seasonal Fct										0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962			
Daily Fct										0.961	0.961	0.961	0.941	0.941	0.941	0.872	0.872	0.872			
Axle Fct										0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500			
Pulse Fct										2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000			

Capacity Analysis Details

Methodology used: Transportation Research Board's Highway Capacity Manual 2010 and AASHTO's Greenbook

Capacity assumptions and calculations

- highest recorded AADT of 8,917 vpd
- directional bias of 65%
- peak hour factor of 13%
- peak directional volume = $(8,917 \text{ vehicles/day})(0.65)(0.13) = 753 \text{ vehicles/hour/lane}$
- trucks accounted for 6.3% of the traffic volumes
- each truck is the equivalent of three passenger cars: # of trucks = $(753 \text{ v/hr})(0.063) = 47.44$
- truck passenger car equivalent (PCE) = $(47.44 \text{ trucks})(3 \text{ PCE/truck}) = 142 \text{ PCE}$
- $753 \text{ vehicles} - 47 \text{ trucks} = 706 \text{ passenger cars}$
- $706 \text{ passenger cars} + 142 \text{ PCE} = 848 \text{ passenger cars or equivalents}$

Current capacity (v/c) = $(848 \text{ PCE/hr}) / (1700 \text{ pc/hr}) = 0.50$

Future capacity: KYTC's statewide travel demand model: traffic on KY 151 is projected to grow 1.1% annually, or about 24% over the next 20 years. Assuming that the passenger cars and trucks will grow at the same 1.1% annual growth rate, the estimated peak hour direction of passenger car equivalents: $\text{PCE} = 848 \text{ PCE} \times 1.011^{20}$ (factor representing 20 years of growth at 1.1% annually) = 1,055 PCE.

Future capacity (v/c) = $(1,055 \text{ PCE/hr}) / (1700 \text{ pc/hr}) = 0.62$