

Appendix 2

Traffic Volume Calculations

NCHRP 8-51 Internal Trip Capture Estimation Tool			
Project Name:	Kenwood Road Development	Organization:	Woolpert
Project Location:	Hamilton County, Ohio	Performed By:	KA
Scenario Description:		Date:	4/4/2018
Analysis Year:	2020 and 2040	Checked By:	
Analysis Period:	PM Street Peak Hour	Date:	

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)						
Land Use	Development Data (For Information Only)			Estimated Vehicle-Trips		
	ITE LUCs ¹	Quantity	Units	Total	Entering	Exiting
Office	710	108	1000 SF	122	20	102
Retail	814	3	1000 SF	22	11	11
Restaurant	932	19	1000 SF	187	116	71
Cinema/Entertainment				0		
Residential	220	163	Units	91	57	34
Hotel	310	120	Rooms	64	33	31
All Other Land Uses ²				0		
Total				486	237	249

Table 2-P: Mode Split and Vehicle Occupancy Estimates						
Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.	% Transit	% Non-Motorized	Veh. Occ.	% Transit	% Non-Motorized
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						
All Other Land Uses ²						

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)						
Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-P: Internal Person-Trip Origin-Destination Matrix*						
Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		1	2	0	2	0
Retail	0		3	0	3	1
Restaurant	2	6		0	9	5
Cinema/Entertainment	0	0	0		0	0
Residential	1	1	7	0		1
Hotel	0	0	6	0	0	

Table 5-P: Computations Summary			
	Total	Entering	Exiting
All Person-Trips	486	237	249
Internal Capture Percentage	21%	21%	20%
External Vehicle-Trips ³	386	187	199
External Transit-Trips ⁴	0	0	0
External Non-Motorized Trips ⁴	0	0	0

Table 6-P: Internal Trip Capture Percentages by Land Use		
Land Use	Entering Trips	Exiting Trips
Office	15%	5%
Retail	73%	64%
Restaurant	16%	31%
Cinema/Entertainment	N/A	N/A
Residential	25%	29%
Hotel	21%	19%

¹Land Use Codes (LUCs) from *Trip Generation Informational Report*, published by the Institute of Transportation Engineers.

²Total estimate for all other land uses at mixed-use development site-not subject to internal trip capture computations in this estimator

³Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P

⁴Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas Transportation Institute

Kenwood Development Traffic Impact Study

Kenwood, Hamilton County, Ohio

Land Use Description	ITE Land Use Code	Unit	Opening Year (2020) and Horizon Year (2040)											
			AM Site Trips			Midday Site Trips			PM Site Trips			SAT Site Trips		
			Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out
Multifamily Housing (Low-Rise)	LU 220	163 Units	76	18	58	65	41	24	91	57	34	143	90	53
<i>Internal Capture Reduction</i>			17	4	13	14	9	5	19	12	7	30	19	11
New Multifamily Housing (Low-Rise)			59	14	45	51	32	19	72	45	27	113	71	42
Hotel	LU 310	120 Rooms	55	32	23	45	25	20	64	33	31	87	49	38
<i>Internal Capture Reduction</i>			12	7	5	9	5	4	13	7	7	18	10	8
Reduced Hotel			43	25	18	36	20	16	51	26	24	69	39	30
General Office Building	LU 710	108,000 SF	128	110	18	119	64	55	122	20	102	57	31	26
<i>Internal Capture Reduction</i>			28	24	4	25	13	12	26	4	21	12	7	5
Reduced General Office Building			100	86	14	94	51	43	96	16	81	45	24	21
Variety Store	LU 814	3,250 SF	10	6	4	18	9	9	22	11	11	22	11	11
<i>Internal Capture Reduction</i>			2	1	1	4	2	2	5	2	2	4	2	2
<i>Pass-By Reduction</i>						6	3	3	7	3	4	8	4	4
Reduced Variety Store			8	5	3	8	4	4	10	6	5	10	5	5
High-Turnover (Sit-Down) Restaurant	LU 932	19,122 SF	190	104	86	262	134	128	187	116	71	214	109	105
<i>Internal Capture Reduction</i>			42	23	19	55	28	27	39	24	15	45	23	22
<i>Pass-By Reduction</i>						112	56	56	80	40	40	92	46	46
High-Turnover (Sit-Down) Restaurant			148	81	67	95	50	45	68	52	16	77	40	37
Total Site Trips			459	270	189	509	273	236	486	237	249	523	290	233
Total Internal Capture			101	59	42	107	57	50	102	50	52	109	61	49
Total Site Trips (Driveway)			358	211	147	402	216	186	384	187	197	414	229	184
Total Pass-By Trips			0	0	0	118	59	59	87	43	44	100	50	50
Total Primary Site Trips			358	211	147	284	157	127	297	144	153	314	179	134

Rerouted Trips	AM Site Trips			Midday Site Trips			PM Site Trips			SAT Site Trips		
	Total	In	Out	Total	In	Out	Total	In	Out	Total	In	Out
Hospital Employee Parking (Pedestrians)	47	24	23	14	7	7	29	15	14	0	0	0

Assumptions

Pass-By Trips (Variety Store) PM/SAT	PM Build 34%	Internal Capture	AM Build 22%	PM Build 21%
Pass-By Trips (Restaurant) PM/SAT	43%			
Growth Rate (linear)	3%			

High-turnover restaurant - midday peak site trips calculated using time of day distribution for 2145 weekday trips (12.2% for midday peak), assumed SAT midday directional distribution and pass by percentages
 Variety Store - midday and Saturday peak site trips calculated using time of day distribution for 206 weekday trips (8.7% for midday peak), assumed PM directional distribution and pass by for midday and SAT; assume PM site trips for SAT
 Multifamily Housing - midday peak site trips calculated using time of day distribution for 1191 weekday trips (5.4%), assumed PM directional distribution
 General Office - midday peak site trips calculated using time of day distribution for 1143 weekday trips (10.4%), assumed SAT midday directional distribution
 Hotel - midday peak site trips calculated using time of day distribution for 928 weekday trips (4.8%), assumed SAT midday directional distribution
 Internal Capture - PM value used for Midday and Sat peak hours

Kenwood Development Traffic Impact Study, 2020 Opening Year and 2040 Horizon Year TRIP ASSIGNMENT ROUTINGS
Kenwood, Hamilton County, Ohio

ORIGIN	DESTINATION	TRIP ROUTING			AFFECTED MOVEMENTS BY TRIPS	AM TRIPS	Midday TRIPS	PM TRIPS	SAT TRIPS
		O-D PERCENT	DRIVE SPLIT	ROUTE SPLIT					
Entering Site Trips									
Montgomery Road (SR 3) (West) (6)	Site Access 1 (7)	18%	50%	100%	6EBL 5NBT 4NBT 9NBT 3NBL 7WBL	19	15	13	16
Montgomery Road (SR 3) (West) (6)	Site Access 3 (9)	18%	0%	100%	6EBL 5NBT 4NBT 9NBL	0	0	0	0
Montgomery Road (SR 3) (West) (6)	Site Access 4 (10)	18%	50%	100%	6EBL 5NBT 4NBL 10WBR	19	14	13	16
Montgomery Road (SR 3) (East) (6)	Site Access 1 (7)	18%	50%	100%	6WBR 5NBT 4NBT 9NBT 3NBL 7WBL	19	14	13	16
Montgomery Road (SR 3) (East) (6)	Site Access 3 (9)	18%	0%	100%	6WBR 5NBT 4NBT 9NBL	0	0	0	0
Montgomery Road (SR 3) (East) (6)	Site Access 4 (10)	18%	50%	100%	6WBR 5NBT 4NBL 10WBR	19	14	13	16
Kenwood Road (South) (6)	Site Access 1 (7)	22%	50%	100%	6NBT 5NBT 4NBT 9NBT 3NBL 7WBL	23	18	15	19
Kenwood Road (South) (6)	Site Access 3 (9)	22%	0%	100%	6NBT 5NBT 4NBT 9NBL	0	0	0	0
Kenwood Road (South) (6)	Site Access 4 (10)	22%	50%	100%	6NBT 5NBT 4NBL 10WBR	23	17	16	20
Galbraith Road (West) (1)	Site Access 1 (7)	10%	60%	100%	1EBR 2SBT 3SBR 7WBL	13	10	9	11
Galbraith Road (West) (1)	Site Access 3 (9)	10%	30%	100%	1EBR 2SBT 3SBT 9SBR	6	5	4	5
Galbraith Road (West) (1)	Site Access 4 (10)	10%	10%	100%	1EBR 2SBT 3SBT 9SBT 4SBR 10WBR	2	2	1	2
Galbraith Road (East) (1)	Site Access 1 (7)	12%	60%	100%	1WBL 2SBT 3SBR 7WBL	15	12	10	13
Galbraith Road (East) (1)	Site Access 3 (9)	12%	30%	100%	1WBL 2SBT 3SBT 9SBR	7	6	5	6
Galbraith Road (East) (1)	Site Access 4 (10)	12%	10%	100%	1WBL 2SBT 3SBT 9SBT 4SBR 10WBR	3	2	2	2
Kenwood Road (North) (1)	Site Access 1 (7)	20%	60%	100%	1SBT 2SBT 3SBR 7WBL	25	19	17	21
Kenwood Road (North) (1)	Site Access 3 (9)	20%	30%	100%	1SBT 2SBT 3SBT 9SBR	13	9	9	11
Kenwood Road (North) (1)	Site Access 4 (10)	20%	10%	100%	1SBT 2SBT 3SBT 9SBT 4SBR 10WBR	4	3	3	4
TOTAL ENTERING SITE TRIPS						210	160	143	178

Origin	Destination	TRIP ROUTING			AFFECTED MOVEMENTS BY TRIPS	AM TRIPS	Midday TRIPS	PM TRIPS	SAT TRIPS
		O-D PERCENT	DRIVE SPLIT	ROUTE SPLIT					
Exiting Site Trips									
Site Access 1 (7)	Montgomery Road (SR 3) (West) (6)	18%	50%	100%	7NBR 3EBR 9SBT 4SBT 5SBT 6SBR	13	11	14	12
Site Access 3 (9)	Montgomery Road (SR 3) (West) (6)	18%	25%	100%	9EBR 4SBT 5SBT 6SBR	6	6	7	6
Site Access 4 (10)	Montgomery Road (SR 3) (West) (6)	18%	25%	100%	10SBL 4EBR 5SBT 6SBR	7	6	7	6
Site Access 1 (7)	Montgomery Road (SR 3) (East) (6)	18%	50%	100%	7NBR 3EBR 9SBT 4SBT 5SBT 6SBL	13	11	14	12
Site Access 3 (9)	Montgomery Road (SR 3) (East) (6)	18%	25%	100%	9EBR 4SBT 5SBT 6SBL	7	6	7	6
Site Access 4 (10)	Montgomery Road (SR 3) (East) (6)	18%	25%	100%	10SBL 4EBR 5SBT 6SBL	7	6	7	6
Site Access 1 (7)	Kenwood Road (South) (6)	22%	50%	100%	7NBR 3EBR 9SBT 4SBT 5SBT 6SBT	16	14	17	14
Site Access 3 (9)	Kenwood Road (South) (6)	22%	25%	100%	9EBR 4SBT 5SBT 6SBT	8	7	8	7
Site Access 4 (10)	Kenwood Road (South) (6)	22%	25%	100%	10SBL 4EBR 5SBT 6SBT	8	7	8	7
Site Access 1 (7)	Galbraith Road (West) (1)	10%	75%	100%	7NBR 3EBL 2NBT 1NBL	11	10	11	10
Site Access 3 (9)	Galbraith Road (West) (1)	10%	0%	100%	9EBL 3NBT 2NBT 1NBL	0	0	0	0
Site Access 4 (10)	Galbraith Road (West) (1)	10%	25%	100%	10SBL 4EBL 9NBT 3NBT 2NBT 1NBL	4	3	4	3
Site Access 1 (7)	Galbraith Road (East) (1)	12%	75%	100%	7NBR 3EBL 2NBT 1NBR	13	11	14	12
Site Access 3 (9)	Galbraith Road (East) (1)	12%	0%	100%	9EBL 3NBT 2NBT 1NBR	0	0	0	0
Site Access 4 (10)	Galbraith Road (East) (1)	12%	25%	100%	10SBL 4EBL 9NBT 3NBT 2NBT 1NBL	4	4	5	4
Site Access 1 (7)	Kenwood Road (North) (1)	20%	75%	100%	7NBR 3EBL 2NBT 1NBT	22	19	23	21
Site Access 3 (9)	Kenwood Road (North) (1)	20%	0%	100%	9EBL 3NBT 2NBT 1NBT	0	0	0	0
Site Access 4 (10)	Kenwood Road (North) (1)	20%	25%	100%	10SBL 4EBL 9NBT 3NBT 2NBT 1NBL	7	6	8	7
TOTAL SITE EXITING TRIPS						146	127	154	133

ORIGIN	DESTINATION	TRIP ROUTING			AFFECTED MOVEMENTS BY TRIPS	AM TRIPS	Midday TRIPS	PM TRIPS	SAT TRIPS
		O-D PERCENT	DRIVE SPLIT	ROUTE SPLIT					
2018 Entering Hospital Employee Parking Rerouted									
Montgomery Road (SR 3) (West) (6)	Site Access 2 (8)	18%	100%	100%	-2NBR -3NBT 3NBL 7WBT 8WBL	4	1	3	0
Montgomery Road (SR 3) (East) (6)	Site Access 2 (8)	18%	100%	100%	-2NBR -3NBT 3NBL 7WBT 8WBL	4	1	3	0
Kenwood Road (South) (6)	Site Access 2 (8)	22%	100%	100%	-2NBR -3NBT 3NBL 7WBT 8WBL	6	2	3	0
Galbraith Road (West) (1)	Site Access 2 (8)	10%	100%	100%	-1EBT 1EBR 2SBT 3SBR 7WBT 8WBL	2	1	1	0
Galbraith Road (East) (1)	Site Access 2 (8)	12%	100%	100%	1WBL 2SBT 3SBR 7WBT 8WBL	3	1	2	0
Kenwood Road (North) (1)	Site Access 2 (8)	20%	100%	100%	-1SBL 1SBT 2SBT 3SBR 7WBT 8WBL	5	1	3	0
TOTAL ENTERING TRIPS						24	7	15	0

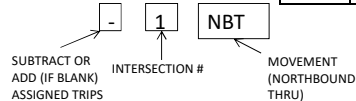
ORIGIN	DESTINATION	TRIP ROUTING			AFFECTED MOVEMENTS BY TRIPS	AM TRIPS	Midday TRIPS	PM TRIPS	SAT TRIPS
		O-D PERCENT	DRIVE SPLIT	ROUTE SPLIT					
2018 Exiting Hospital Employee Parking Rerouted									
Site Access 2 (8)	Montgomery Road (SR 3) (West) (6)	18%	100%	60%	-1WBL -2SBT -3SBT 8NBR 7EBT 3EBR	2	1	2	0
Site Access 2 (8)	Montgomery Road (SR 3) (West) (6)	18%	100%	40%	-2WBL -3SBT 8NBR 7EBT 3EBR	2	1	1	0
Site Access 2 (8)	Montgomery Road (SR 3) (East) (6)	18%	100%	60%	-1WBL -2SBT -3SBT 8NBR 7EBT 3EBR	2	1	2	0
Site Access 2 (8)	Montgomery Road (SR 3) (East) (6)	18%	100%	40%	-2WBL -3SBT 8NBR 7EBT 3EBR	2	1	1	0
Site Access 2 (8)	Kenwood Road (South) (6)	22%	100%	60%	-1WBL -2SBT -3SBT 8NBR 7EBT 3EBR	4	1	2	0
Site Access 2 (8)	Kenwood Road (South) (6)	22%	100%	40%	-2WBL -3SBT 8NBR 7EBT 3EBR	2	1	1	0
Site Access 2 (8)	Galbraith Road (West) (1)	10%	100%	70%	-1WBT 8NBR 7EBT 3EBL 2NBT 1NBL	2	0	1	0
Site Access 2 (8)	Galbraith Road (West) (1)	10%	100%	30%	-2WBR -1NBL 8NBR 7EBT 3EBL 2NBT 1NBL	1	0	0	0
Site Access 2 (8)	Galbraith Road (East) (1)	12%	100%	100%	8NBR 7EBT 3EBL 2NBT 1NBR	2	0	2	0
Site Access 2 (8)	Kenwood Road (North) (1)	20%	100%	70%	-1WBR 8NBR 7EBT 3EBL 2NBT 1NBT	3	1	1	0
Site Access 2 (8)	Kenwood Road (North) (1)	20%	100%	30%	-2WBR -1NBT 8NBR 7EBT 3EBL 2NBT 1NBT	1	0	1	0
TOTAL EXITING TRIPS						23	7	14	0

ORIGIN	DESTINATION	TRIP ROUTING			AFFECTED MOVEMENTS BY TRIPS	AM TRIPS	Midday TRIPS	PM TRIPS	SAT TRIPS
		O-D PERCENT	DRIVE SPLIT	ROUTE SPLIT					
Pass-By Trips									
Pass By Trips									
North (via 3)	South (via 3)	42%	60%	50%	-3SBT 3SBR 7WBL 7NBR 3EBR	0	7	5	7
North (via 3)	South (via 9)	42%	60%	50%	-3SBT -9SBT 3SBR 7WBL 9EBR	0	7	5	6
North (via 9)	South (via 3)	42%	40%	50%	9SBR 7NBR 3EBR	0	5	4	4
North (via 9)	South (via 9)	42%	40%	50%	-9SBT 9SBR 9EBR	0	5	4	4
South (via 3)	North (via 3)	58%	100%	100%	-3NBT 3NBL 7WBL 7NBR 3EBL	0	35	25	29
TOTAL PASS-BY TRIPS						0	59	43	50

Intersection Legend

1. Kenwood Road and Galbraith Road
2. Kenwood Road and Happiness Way
3. Kenwood Road and Happiness Way
4. Kenwood Road and Kenwood Plaza/Towne Center
5. Kenwood Road and Orchard Lane

6. Kenwood Road and Montgomery Road (SR 3)
7. Happiness Way and Site Access 1/Hospital Drive
8. Happiness Way and Site Access 2
9. Kenwood Road and Site Access 3
10. Site Access 4 and Kenwood Plaza Drive



TRAFFIC PROJECTIONS - AM PEAK HOUR
KENWOOD DEVELOPMENT TRAFFIC IMPACT STUDY, HAMILTON COUNTY, OHIO

Int. #	Movement	2018	2020				2020 and 2040 Site Trips				2020 and 2040 Rerouted Hospital Trips				2020	2040	2040	Int. #	Movement
		Existing Traffic Volumes	Background Volumes	Passenger Car Trips IN	Passenger Car Trips OUT	Pass-By Trips	Total	Hospital Employees In Removed	Hospital Employees In Added	Hospital Employees Out Removed	Hospital Employees Out Added	Build Volumes	Background Volumes	Build Volumes					
1	EBL	58	61											61	98	98	1	EBL	
1	EBT	204	216											214	346	344	1	EBT	
1	EBR	135	143	21			21			2				166	229	252	1	EBR	
1	WBL	66	70	27			27			3				92	112	134	1	WBL	
1	WBT	158	167											165	267	265	1	WBT	
1	WBR	77	82											79	131	128	1	WBR	
1	NBL	143	152		25		25							179	243	270	1	NBL	
1	NBT	356	377		23		23							403	603	629	1	NBT	
1	NBR	92	98		15		15							115	157	174	1	NBR	
1	SBL	299	317											312	507	502	1	SBL	
1	SBT	606	642	42			42			5				689	1027	1074	1	SBT	
1	SBR	114	121											121	194	194	1	SBR	
2	EBL	3	3											3	5	5	2	EBL	
2	EBT	1	1											1	2	2	2	EBT	
2	EBR	7	7											7	11	11	2	EBR	
2	WBL	2	2											0	3	0	2	WBL	
2	WBT	7	7											7	11	11	2	WBT	
2	WBR	7	7											5	11	9	2	WBR	
2	NBL	47	50											50	80	80	2	NBL	
2	NBT	581	616		63		63							688	986	1058	2	NBT	
2	NBR	18	19											5	30	16	2	NBR	
2	SBL	15	16											16	26	26	2	SBL	
2	SBT	831	881	90			90			10				973	1410	1502	2	SBT	
2	SBR	46	49											49	78	78	2	SBR	
3	EBL	4	4		37		37							9	6	52	3	EBL	
3	EBT	0	0											0	0	0	3	EBT	
3	EBR	10	11		33		33							14	18	65	3	EBR	
3	NBL	7	7	49			49			14				70	11	74	3	NBL	
3	NBT	648	687		26		26							699	1099	1111	3	NBT	
3	NBR	0	0											0	0	0	3	NBR	
3	SBL	0	0											0	0	0	3	SBL	
3	SBT	827	877	36			36							899	1403	1425	3	SBT	
3	SBR	4	4	54			54			10				68	6	70	3	SBR	
4	EBL	2	2		13		13							15	3	16	4	EBL	
4	EBT	0	0											0	0	0	4	EBT	
4	EBR	2	2		26		26							28	3	29	4	EBR	
4	WBL	18	19											19	30	30	4	WBL	
4	WBT	0	0											0	0	0	4	WBT	
4	WBR	3	3											3	5	5	4	WBR	
4	NBL	8	8	36			36							44	13	49	4	NBL	
4	NBT	668	708	85			85							793	1133	1218	4	NBT	
4	NBR	23	24											24	38	38	4	NBR	
4	SBL	13	14											14	22	22	4	SBL	
4	SBT	814	863		58		58							921	1381	1439	4	SBT	
4	SBR	10	11	9			9							20	18	27	4	SBR	
5	EBL	15	16											16	26	26	5	EBL	
5	EBT	0	0											0	0	0	5	EBT	
5	EBR	71	75											75	120	120	5	EBR	
5	NBL	23	24											24	38	38	5	NBL	
5	NBT	722	765	121			121							886	1224	1345	5	NBT	
5	NBR	0	0											0	0	0	5	NBR	
5	SBL	0	0											0	0	0	5	SBL	
5	SBT	796	844		84		84							928	1350	1434	5	SBT	
5	SBR	9	10											10	16	16	5	SBR	
6	EBL	126	134	37			37							171	214	251	6	EBL	
6	EBT	390	413											413	661	661	6	EBT	
6	EBR	60	64											64	102	102	6	EBR	
6	WBL	119	126											126	202	202	6	WBL	
6	WBT	294	312											312	499	499	6	WBT	
6	WBR	101	107	37			37							144	171	208	6	WBR	
6	NBL	118	125											125	200	200	6	NBL	
6	NBT	537	569	47			47							616	910	957	6	NBT	
6	NBR	189	200											200	320	320	6	NBR	
6	SBL	111	118		27		27							145	189	216	6	SBL	
6	SBT	592	628		32		32							660	1005	1037	6	SBT	
6	SBR	169	179		25		25							204	286	311	6	SBR	
7	EBL	2	2											2	3	3	7	EBL	
7	EBT	17	18											23	41	52	7	EBT	
7	EBR	1	1											1	2	2	7	EBR	
7	WBL	1	1	103			103							104	2	105	7	WBL	
7	WBT	14	15							24				39	24	48	7	WBT	
7	WBR	2	2											2	3	3	7	WBR	
7	NBR	1	1		70		70							71	2	72	7	NBR	
7	SBL	3	3											3	5	5	7	SBL	
7	SBT	0	0											0	0	0	7	SBT	
7	SBR	2	2											2	3	3	7	SBR	
8	EBT	20	21											21	34	34	8	EBT	
8	WBL	0	0											24	0	24	8	WBL	
8	WBT	16	17											17	27	27	8	WBT	
8	NBR	0	0											23	0	23	8	NBR	
9	EBL	0	0		13		13							13	0	13	9	EBL	
9	EBR	0	0		25		25							25	0	25	9	EBR	
9	NBL	0	0	36			36							36	0	36	9	NBL	
9	NBT	668	708	49	13		62							770	1133	1195	9	NBT	
9	SBT	827	877	9	33		42							919	1403	1445	9	SBT	
9	SBR	0	0	27			27							27	0	27	9	SBR	
10	WBR	0	0	45			45							45	0	45	10	WBR	
10	SBL	0	0		39		39							39	0	39	10	SBL	

Intersection Legend

1. Kenwood Road and Galbraith Road
2. Kenwood Road and Kenwood Mall/Hospital Driveway
3. Kenwood Road and Happiness Way
4. Kenwood Road and Kenwood Plaza/Towne Center
5. Kenwood Road and Orchard Lane
6. Kenwood Road and Montgomery Road (SR 3)
7. Happiness Way and Site Access 1/Hospital Drive
8. Happiness Way and Site Access 2
9. Kenwood Road and Site Access 3
10. Site Access 4 and Kenwood Place Drive

Linear Growth Rate
3.00%

TRAFFIC PROJECTIONS - Midday PEAK HOUR
KENWOOD DEVELOPMENT TRAFFIC IMPACT STUDY, HAMILTON COUNTY, OHIO

Int. #	Movement	2018 Existing Traffic Volumes	2020 and 2040 Site Trips				2020 and 2040 Rerouted Hospital Trips				2020	2040	2040	Int. #	Movement
			Background Volumes	Passenger Car Trips IN	Passenger Car Trips OUT	Pass-By Trips	Total	Hospital Employees In Removed	Hospital Employees In Added	Hospital Employees Out Removed	Hospital Employees Out Added	Build Volumes	Background Volumes		
1	EBL	72	76								76	122	122	1	EBL
1	EBT	209	222						-1		221	355	354	1	EBT
1	EBR	220	233	17			17			1	251	373	391	1	EBR
1	WBL	84	89	20			20			1	107	142	160	1	WBL
1	WBT	168	178								178	285	285	1	WBT
1	WBR	154	163								162	261	260	1	WBR
1	NBL	193	205			22		22			227	328	350	1	NBL
1	NBT	471	499			20		20			520	798	819	1	NBT
1	NBR	118	125			12		12			137	200	212	1	NBR
1	SBL	167	177						-1		176	283	282	1	SBL
1	SBT	424	449	31			31			1	481	718	750	1	SBT
1	SBR	82	87								87	139	139	1	SBR
2	EBL	4	4								4	6	6	2	EBL
2	EBT	1	1								1	2	2	2	EBT
2	EBR	11	12								12	19	19	2	EBR
2	WBL	23	24								21	38	35	2	WBL
2	WBT	0	0								0	0	0	2	WBT
2	WBR	101	107								107	171	171	2	WBR
2	NBL	26	28								28	45	45	2	NBL
2	NBT	683	724			54		54			779	1158	1213	2	NBT
2	NBR	19	20						-4		16	32	28	2	NBR
2	SBL	63	67								67	107	107	2	SBL
2	SBT	684	725	68			68			3	793	1160	1228	2	SBT
2	SBR	18	19								19	30	30	2	SBR
3	EBL	7	7			32	35	67			75	11	79	3	EBL
3	EBT	0	0								0	0	0	3	EBT
3	EBR	12	13			29		41			60	21	68	3	EBR
3	NBL	5	5	37			35	72		4	81	8	84	3	NBL
3	NBT	633	671			22		-35			654	1074	1057	3	NBT
3	NBR	0	0								0	0	0	3	NBR
3	SBL	0	0								0	0	0	3	SBL
3	SBT	812	861	27			-14	13			868	1378	1385	3	SBT
3	SBR	14	15	41			14	55		3	73	24	82	3	SBR
4	EBL	26	28			11		11			39	45	56	4	EBL
4	EBT	9	10								10	16	16	4	EBT
4	EBR	22	23			22		22			45	37	59	4	EBR
4	WBL	159	169								169	270	270	4	WBL
4	WBT	4	4								4	6	6	4	WBT
4	WBR	39	41								41	66	66	4	WBR
4	NBL	23	24	26				26			50	38	64	4	NBL
4	NBT	675	716	63				63			779	1146	1209	4	NBT
4	NBR	150	159								159	254	254	4	NBR
4	SBL	44	47								47	75	75	4	SBL
4	SBT	635	673			51		51			724	1077	1128	4	SBT
4	SBR	37	39	7				7			46	62	69	4	SBR
5	EBL	34	36								36	58	58	5	EBL
5	EBT	0	0								0	0	0	5	EBT
5	EBR	65	69								69	110	110	5	EBR
5	NBL	72	76								76	122	122	5	NBL
5	NBT	942	999	89				89			1088	1598	1687	5	NBT
5	NBR	0	0								0	0	0	5	NBR
5	SBL	0	0								0	0	0	5	SBL
5	SBT	805	853			73		73			926	1365	1438	5	SBT
5	SBR	31	33								33	53	53	5	SBR
6	EBL	212	225	28				28			253	360	388	6	EBL
6	EBT	500	530								530	848	848	6	EBT
6	EBR	171	181								181	290	290	6	EBR
6	WBL	259	275								275	440	440	6	WBL
6	WBT	478	507								507	811	811	6	WBT
6	WBR	272	288	27				27			315	461	488	6	WBR
6	NBL	218	231								231	370	370	6	NBL
6	NBT	545	578	34				34			612	925	959	6	NBT
6	NBR	291	308								308	493	493	6	NBR
6	SBL	208	220			23		23			243	352	375	6	SBL
6	SBT	479	508			27		27			535	813	840	6	SBT
6	SBR	166	176			23		23			199	282	305	6	SBR
7	EBL	3	3								3	5	5	7	EBL
7	EBT	10	11								18	18	25	7	EBT
7	EBR	2	2								2	3	3	7	EBR
7	WBL	7	7	78			49	127			134	11	138	7	WBL
7	WBT	18	19							7	26	30	37	7	WBT
7	WBR	5	5								5	8	8	7	WBR
7	NBL	3	3								3	5	5	7	NBL
7	NBR	1	1			61	47	108			109	2	110	7	NBR
7	SBL	5	5								5	8	8	7	SBL
7	SBT	0	0								0	0	0	7	SBT
7	SBR	1	1								1	2	2	7	SBR
8	EBT	15	16								16	26	26	8	EBT
8	WBL	0	0								7	0	7	8	WBL
8	WBT	22	23							7	23	37	37	8	WBT
8	NBR	0	0								7	0	7	8	NBR
9	EBL	0	0			11		11			11	0	11	9	EBL
9	EBR	0	0			22	12	34			34	0	34	9	EBR
9	NBL	0	0	26				26			26	0	26	9	NBL
9	NBT	675	716	37		11		48			764	1146	1194	9	NBT
9	SBT	812	861	7		29		-12			885	1378	1402	9	SBT
9	SBR	0	0	20				10			30	0	30	9	SBR
10	WBR	0	0	33				33			33	0	33	10	WBR
10	SBL	0	0			33		33			33	0	33	10	SBL

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Linear Growth Rate

3.00%

TRAFFIC PROJECTIONS - PM PEAK HOUR
KENWOOD DEVELOPMENT TRAFFIC IMPACT STUDY, HAMILTON COUNTY, OHIO

Int. #	Movement	2018 Existing Traffic Volumes	2020 and 2040 Site Trips				2020 and 2040 Rerouted Hospital Trips				2020 Build Volumes	2040 Background Volumes	2040 Build Volumes	Int. #	Movement
			Background Volumes	Passenger Car Trips IN	Passenger Car Trips OUT	Pass-By Trips	Total	Hospital Employees In Removed	Hospital Employees In Added	Hospital Employees Out Removed					
1	EBL	131	139								139	222	222	1	EBL
1	EBT	256	271						-1		270	434	433	1	EBT
1	EBR	185	196	14				14		1	211	314	329	1	EBR
1	WBL	81	86	17				17		2	99	138	151	1	WBL
1	WBT	220	233							-1	232	373	372	1	WBT
1	WBR	244	259							-1	258	414	413	1	WBR
1	NBL	131	139			25		25			165	222	248	1	NBL
1	NBT	583	618			25		25			644	989	1015	1	NBT
1	NBR	67	71			15		15			88	114	131	1	NBR
1	SBL	200	212						-3		209	339	336	1	SBL
1	SBT	612	649	29				29			681	1038	1070	1	SBT
1	SBR	62	66							3	66	106	106	1	SBR
2	EBL	5	5								5	8	8	2	EBL
2	EBT	1	1								1	2	2	2	EBT
2	EBR	20	21								1	34	34	2	EBR
2	WBL	35	37								34	59	56	2	WBL
2	WBT	0	0								0	0	0	2	WBT
2	WBR	94	100								99	160	159	2	WBR
2	NBL	10	11								11	18	18	2	NBL
2	NBT	768	814			65		65			884	1302	1372	2	NBT
2	NBR	29	31						-9		22	50	41	2	NBR
2	SBL	64	68								68	109	109	2	SBL
2	SBT	861	913	60				60		6	973	1461	1521	2	SBT
2	SBR	4	4								4	6	6	2	SBR
3	EBL	7	7			39		25			76	11	80	3	EBL
3	EBT	0	0								0	0	0	3	EBT
3	EBR	13	14			36		9			68	22	76	3	EBR
3	NBL	15	16	32				25		9	88	26	92	3	NBL
3	NBT	799	847			26		-25		-9	839	1355	1347	3	NBT
3	NBR	0	0								0	0	0	3	NBR
3	SBL	0	0								0	0	0	3	SBL
3	SBT	890	943	24				-10		-9	948	1509	1514	3	SBT
3	SBR	24	25	36				10			77	40	92	3	SBR
4	EBL	38	40			13					53	64	77	4	EBL
4	EBT	3	3								3	5	5	4	EBT
4	EBR	28	30			26					56	48	74	4	EBR
4	WBL	154	163								163	261	261	4	WBL
4	WBT	1	1								1	2	2	4	WBT
4	WBR	32	34								34	54	54	4	WBR
4	NBL	20	21	26							47	34	60	4	NBL
4	NBT	761	807	58							865	1291	1349	4	NBT
4	NBR	137	145								145	232	232	4	NBR
4	SBL	54	57								57	91	91	4	SBL
4	SBT	804	852			62					914	1363	1425	4	SBT
4	SBR	31	33	6							39	53	59	4	SBR
5	EBL	34	36								36	58	58	5	EBL
5	EBT	0	0								0	0	0	5	EBT
5	EBR	48	51								51	82	82	5	EBR
5	NBL	86	91								91	146	146	5	NBL
5	NBT	918	973	84				84			1057	1557	1641	5	NBT
5	NBR	0	0								0	0	0	5	NBR
5	SBL	0	0								0	0	0	5	SBL
5	SBT	943	1000			88					1088	1600	1688	5	SBT
5	SBR	43	46								46	74	74	5	SBR
6	EBL	278	295	26				26			321	472	498	6	EBL
6	EBT	617	654								654	1046	1046	6	EBT
6	EBR	174	184								184	294	294	6	EBR
6	WBL	275	292								292	467	467	6	WBL
6	WBT	469	497								497	795	795	6	WBT
6	WBR	191	202	26				26			228	323	349	6	WBR
6	NBL	147	156								156	250	250	6	NBL
6	NBT	558	591	32				32			623	946	978	6	NBT
6	NBR	242	257								257	411	411	6	NBR
6	SBL	175	186			27					213	298	325	6	SBL
6	SBT	677	718			34					752	1149	1183	6	SBT
6	SBR	148	157			27					184	251	278	6	SBR
7	EBL	0	0								0	0	0	7	EBL
7	EBT	9	10								24	16	30	7	EBT
7	EBR	2	2								2	3	3	7	EBR
7	WBL	4	4	68							107	6	109	7	WBL
7	WBT	35	37					35			52	59	74	7	WBT
7	WBR	0	0							15	0	0	0	7	WBR
7	NBL	2	2								2	3	3	7	NBL
7	NBR	1	1			75		34			110	2	111	7	NBR
7	SBL	10	11								11	18	18	7	SBL
7	SBT	0	0								0	0	0	7	SBT
7	SBR	0	0								0	0	0	7	SBR
8	EBT	11	12								12	19	19	8	EBT
8	WBL	0	0								15	0	15	8	WBL
8	WBT	37	39								39	62	62	8	WBT
8	NBR	0	0								14	0	14	8	NBR
9	EBL	0	0			13					13	0	13	9	EBL
9	EBR	0	0			26		9			35	0	35	9	EBR
9	NBL	0	0	26							26	0	26	9	NBL
9	NBT	761	807	32		13					852	1291	1336	9	NBT
9	SBT	890	943	6		36		-9			976	1509	1542	9	SBT
9	SBR	0	0	18				8			26	0	26	9	SBR
10	WBR	0	0	32							32	0	32	10	WBR
10	SBL	0	0			39					39	0	39	10	SBL

Intersection Legend

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Linear Growth Rate

3.00%

TRAFFIC PROJECTIONS - SAT PEAK HOUR
KENWOOD DEVELOPMENT TRAFFIC IMPACT STUDY, HAMILTON COUNTY, OHIO

Int. #	Movement	2018	2020				2020 and 2040 Site Trips				2020 and 2040 Rerouted Hospital Trips				2020	2040	2040	Int. #	Movement
		Existing Traffic Volumes	Background Volumes	Passenger Car Trips IN	Passenger Car Trips OUT	Pass-By Trips	Total	Hospital Employees In Removed	Hospital Employees In Added	Hospital Employees Out Removed	Hospital Employees Out Added	Build Volumes	Background Volumes	Build Volumes					
1	EBL	42	45											45	72	72	1	EBL	
1	EBT	118	125											125	200	200	1	EBT	
1	EBR	100	106	18			18							124	170	188	1	EBR	
1	WBL	58	61	21			21							82	98	119	1	WBL	
1	WBT	100	106											106	170	170	1	WBT	
1	WBR	123	130											130	208	208	1	WBR	
1	NBL	101	107			22	22							129	171	193	1	NBL	
1	NBT	414	439			22	22							461	702	724	1	NBT	
1	NBR	80	85			13	13							98	136	149	1	NBR	
1	SBL	130	138											138	221	221	1	SBL	
1	SBT	362	384	36			36							420	614	650	1	SBT	
1	SBR	44	47											47	75	75	1	SBR	
2	EBL	5	5											5	8	8	2	EBL	
2	EBT	0	0											0	0	0	2	EBT	
2	EBR	13	14											14	22	22	2	EBR	
2	WBL	61	65											65	104	104	2	WBL	
2	WBT	1	1											1	2	2	2	WBT	
2	WBR	141	149											149	238	238	2	WBR	
2	NBL	10	11											11	18	18	2	NBL	
2	NBT	450	477			57	57							534	763	820	2	NBT	
2	NBR	37	39											39	62	62	2	NBR	
2	SBL	65	69											69	110	110	2	SBL	
2	SBT	454	481	75			75							556	770	845	2	SBT	
2	SBR	9	10											10	16	16	2	SBR	
3	EBL	2	2			35	29	64						66	3	67	3	EBL	
3	EBT	0	0											0	0	0	3	EBT	
3	EBR	9	10			31	11	42						52	16	58	3	EBR	
3	NBL	13	14	40			29	69						83	22	91	3	NBL	
3	NBT	522	553			22	-29							546	885	878	3	NBT	
3	NBR	0	0											0	0	0	3	NBR	
3	SBL	0	0											0	0	0	3	SBL	
3	SBT	488	517	30			-13	17						534	827	844	3	SBT	
3	SBR	7	7	45			13	58						65	11	69	3	SBR	
4	EBL	28	30			11		11						41	48	59	4	EBL	
4	EBT	5	5											5	8	8	4	EBT	
4	EBR	27	29			23		23						52	46	69	4	EBR	
4	WBL	226	240											240	384	384	4	WBL	
4	WBT	5	5											5	8	8	4	WBT	
4	WBR	52	55											55	88	88	4	WBR	
4	NBL	15	16	32				32						48	26	58	4	NBL	
4	NBT	407	431	72				72						503	690	762	4	NBT	
4	NBR	191	202											202	323	323	4	NBR	
4	SBL	61	65											65	104	104	4	SBL	
4	SBT	412	437			54		54						491	699	753	4	SBT	
4	SBR	42	45	8				8						53	72	80	4	SBR	
5	EBL	40	42											42	67	67	5	EBL	
5	EBT	0	0											0	0	0	5	EBT	
5	EBR	53	56											56	90	90	5	EBR	
5	NBL	50	53											53	85	85	5	NBL	
5	NBT	827	877	104				104						981	1403	1507	5	NBT	
5	NBR	0	0											0	0	0	5	NBR	
5	SBL	0	0											0	0	0	5	SBL	
5	SBT	595	631			77		77						708	1010	1087	5	SBT	
5	SBR	23	24											24	38	38	5	SBR	
6	EBL	180	191	32				32						223	306	338	6	EBL	
6	EBT	393	417											417	667	667	6	EBT	
6	EBR	112	119											119	190	190	6	EBR	
6	WBL	197	209											209	334	334	6	WBL	
6	WBT	337	357											357	571	571	6	WBT	
6	WBR	220	233	33				33						266	373	406	6	WBR	
6	NBL	153	162											162	259	259	6	NBL	
6	NBT	487	516	39				39						555	826	865	6	NBT	
6	NBR	251	266											266	426	426	6	NBR	
6	SBL	187	198			24		24						222	317	341	6	SBL	
6	SBT	370	392			29		29						421	627	656	6	SBT	
6	SBR	109	116			24		24						140	186	210	6	SBR	
7	EBL	1	1											1	2	2	7	EBL	
7	EBT	8	8											8	13	13	7	EBT	
7	EBR	1	1											1	2	2	7	EBR	
7	WBL	4	4	85				42	127					131	6	133	7	WBL	
7	WBT	16	17											17	27	27	7	WBT	
7	WBR	0	0											0	0	0	7	WBR	
7	NBL	1	1											1	2	2	7	NBL	
7	NBR	3	3			66	40	106						109	5	111	7	NBR	
7	SBL	0	0											0	0	0	7	SBL	
7	SBT	0	0											0	0	0	7	SBT	
7	SBR	0	0											0	0	0	7	SBR	
8	EBT	10	11											11	18	18	8	EBT	
8	WBT	17	18											18	29	29	8	WBT	
9	EBL	0	0			11		11						11	0	11	9	EBL	
9	EBR	0	0			23	10	33						33	0	33	9	EBR	
9	NBL	0	0	32				32						32	0	32	9	NBL	
9	NBT	407	431	40		11		51						482	690	741	9	NBT	
9	SBT	488	517	8		31	-10	29						546	827	856	9	SBT	
9	SBR	0	0	22			8	30						30	0	30	9	SBR	
10	WBR	0	0	40				40						40	0	40	10	WBR	
10	SBL	0	0			34		34						34	0	34	10	SBL	

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7. Happiness Way and Site Access 1/Hospital Drive
8. Happiness Way and Site Access 2
9. Kenwood Road and Site Access 3
10. Site Access 4 and Kenwood Place Drive

Linear Growth Rate
3.00%

TRAFFIC PROJECTIONS - BF MID PEAK HOUR
KENWOOD DEVELOPMENT TRAFFIC IMPACT STUDY, HAMILTON COUNTY, OHIO

Int. #	Movement	2010	2018	2020	2020 and 2040 Site Trips				2020 and 2040 Rerouted Hospital Trips				2020	2040	2040	Int. #	Movement
		Black Friday Volumes	Adjusted Volumes	Background Volumes	Passenger Car Trips IN	Passenger Car Trips OUT	Pass-By Trips	Total	Hospital Employees In Removed	Hospital Employees In Added	Hospital Employees Out Removed	Hospital Employees Out Added	Build Volumes	Background Volumes	Build Volumes		
1	EBL	76	94	100									100	160	160	1	EBL
1	EBT	266	330	350									348	560	558	1	EBT
1	EBR	176	218	231	21			21	-2	2			254	370	393	1	EBR
1	WBL	86	107	113	27			27		3	-8		135	181	203	1	WBL
1	WBT	206	255	270							-2		268	432	430	1	WBT
1	WBR	100	124	131							-3		128	210	207	1	WBR
1	NBL	186	231	245		25		25			-1	3	272	392	419	1	NBL
1	NBT	464	575	610		23		23			-1	4	636	976	1002	1	NBT
1	NBR	120	149	158		15		15				2	175	253	270	1	NBR
1	SBL	389	482	511									506	818	813	1	SBL
1	SBT	789	978	1037	42			42	-5	5			1084	1659	1706	1	SBT
1	SBR	148	184	195									195	312	312	1	SBR
2	EBL	4	5	5									5	8	8	2	EBL
2	EBT	1	1	1									1	2	2	2	EBT
2	EBR	9	11	12									12	19	19	2	EBR
2	WBL	3	4	4							-6		2	6	0	2	WBL
2	WBT	9	11	12									12	19	19	2	WBT
2	WBR	9	11	12									10	19	17	2	WBR
2	NBL	61	76	81									81	130	130	2	NBL
2	NBT	756	937	993		63		63				9	1065	1589	1661	2	NBT
2	NBR	23	29	31									17	50	36	2	NBR
2	SBL	20	25	27									27	43	43	2	SBL
2	SBT	1082	1342	1423	90			90		10	-8		1515	2277	2369	2	SBT
2	SBR	60	74	78									78	125	125	2	SBR
3	EBL	5	6	6		37		37				9	52	10	56	3	EBL
3	EBT	0	0	0									0	0	0	3	EBT
3	EBR	13	16	17		33		33				14	64	27	74	3	EBR
3	NBL	9	11	12	49			49		14			75	19	82	3	NBL
3	NBT	844	1047	1110		26		26	-14				1122	1776	1788	3	NBT
3	NBR	0	0	0									0	0	0	3	NBR
3	SBL	0	0	0									0	0	0	3	SBL
3	SBT	1077	1335	1415	36			36			-14		1437	2264	2286	3	SBT
3	SBR	5	6	6	54			54		10			70	10	74	3	SBR
4	EBL	3	4	4		13		13					17	6	19	4	EBL
4	EBT	0	0	0									0	0	0	4	EBT
4	EBR	3	4	4		26		26					30	6	32	4	EBR
4	WBL	23	29	31									31	50	50	4	WBL
4	WBT	0	0	0									0	0	0	4	WBT
4	WBR	4	5	5									5	8	8	4	WBR
4	NBL	10	12	13	36			36					49	21	57	4	NBL
4	NBT	870	1079	1144	85			85					1229	1830	1915	4	NBT
4	NBR	30	37	39									39	62	62	4	NBR
4	SBL	17	21	22									22	35	35	4	SBL
4	SBT	1060	1314	1393	9	58		58					1451	2229	2287	4	SBT
4	SBR	13	16	17				9					26	27	36	4	SBR
5	EBL	61	76	81									81	130	130	5	EBL
5	EBT	0	0	0									0	0	0	5	EBT
5	EBR	68	84	89									89	142	142	5	EBR
5	NBL	93	115	122									122	195	195	5	NBL
5	NBT	1123	1393	1477	121			121					1598	2363	2484	5	NBT
5	NBR	0	0	0									0	0	0	5	NBR
5	SBL	0	0	0									0	0	0	5	SBL
5	SBT	810	1004	1064		84		84					1148	1702	1786	5	SBT
5	SBR	64	79	84									84	134	134	5	SBR
6	EBL	240	298	316	37			37					353	506	543	6	EBL
6	EBT	420	521	552									552	893	883	6	EBT
6	EBR	168	208	220									220	352	352	6	EBR
6	WBL	204	253	268									268	429	429	6	WBL
6	WBT	312	387	410									410	656	656	6	WBT
6	WBR	369	458	485	37			37					522	776	813	6	WBR
6	NBL	168	208	220									220	352	352	6	NBL
6	NBT	590	732	776	47			47					823	1242	1289	6	NBT
6	NBR	225	279	296									296	474	474	6	NBR
6	SBL	198	246	261		27		27					288	418	445	6	SBL
6	SBT	477	591	626		32		32					658	1002	1034	6	SBT
6	SBR	183	227	241		25		25					266	386	411	6	SBR
7	EBL	3	4	4									4	6	6	7	EBL
7	EBT	22	27	29									52	46	69	7	EBT
7	EBR	1	1	1									1	2	2	7	EBR
7	WBL	1	1	1	103			103					104	2	105	7	WBL
7	WBT	18	22	23						24			47	37	61	7	WBT
7	WBR	3	4	4									4	6	6	7	WBR
7	NBL	1	1	1		70		70					71	2	72	7	NBL
7	SBL	4	5	5									5	8	8	7	SBL
7	SBT	0	0	0									0	0	0	7	SBT
7	SBR	3	4	4									4	6	6	7	SBR
8	EBT	28	32	34									34	54	54	8	EBT
8	WBL	0	0	0									24	0	24	8	WBL
8	WBT	21	26	28						24			28	45	45	8	WBT
8	NBR	0	0	0									23	0	23	8	NBR
9	EBL	0	0	0		13		13					13	0	13	9	EBL
9	EBR	0	0	0		25		25					25	0	25	9	EBR
9	NBL	0	0	0	36			36					36	0	36	9	NBL
9	NBT	870	870	1144	49	13		62					1206	1830	1892	9	NBT
9	SBT	1077	1077	1415	9	33		42					1457	2264	2306	9	SBT
9	SBR	0	0	0	27			27					27	0	27	9	SBR
10	WBR	0	0	0	45			45					45	0	45	10	WBR
10	SBL	0	0	0		39		39					39	0	39	10	SBL

Intersection Legend

1. Kenwood Road and Galbraith Road
2. Kenwood Road and Kenwood Mall/Hospital Driveway
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Linear Growth Rate
3.00%

TRAFFIC PROJECTIONS - BF PM PEAK HOUR
KENWOOD DEVELOPMENT TRAFFIC IMPACT STUDY, HAMILTON COUNTY, OHIO

Int. #	Movement	2018		2020 and 2040 Site Trips				2020 and 2040 Rerouted Hospital Trips				2020			2040			Int. #	Movement
		Black Friday Volumes	Adjusted Volumes	Background Volumes	Passenger Car Trips IN	Passenger Car Trips OUT	Pass-By Trips	Total	Hospital Employees In Removed	Hospital Employees In Added	Hospital Employees Out Removed	Hospital Employees Out Added	Build Volumes	Background Volumes	Build Volumes				
1	EBL	116	144	153								153	245	245	1	EBL			
1	EBT	333	413	438					-1			437	701	700	1	EBT			
1	EBR	241	299	317	14		14		1			332	507	522	1	EBR			
1	WBL	105	130	138	17		17		2	-6		151	221	234	1	WBL			
1	WBT	286	355	376					-1			375	602	601	1	WBT			
1	WBR	318	394	418					-1			417	669	668	1	WBR			
1	NBL	171	212	225		28	28				1	254	360	389	1	NBL			
1	NBT	759	941	997		23	23				2	1021	1595	1619	1	NBT			
1	NBR	87	108	114		14	14				2	130	182	198	1	NBR			
1	SBL	260	322	341					-3			338	546	543	1	SBL			
1	SBT	797	988	1047	29		29		3			1079	1675	1707	1	SBT			
1	SBR	81	100	106								106	170	170	1	SBR			
2	EBL	7	9	10								10	16	16	2	EBL			
2	EBT	1	1	1								1	2	2	2	EBT			
2	EBR	26	32	34								34	54	54	2	EBR			
2	WBL	46	57	60						-3		57	96	93	2	WBL			
2	WBT	0	0	0								0	0	0	2	WBT			
2	WBR	122	151	160							-1	159	256	255	2	WBR			
2	NBL	13	16	17								17	27	27	2	NBL			
2	NBT	1000	1240	1314		65	65				5	1384	2102	2172	2	NBT			
2	NBR	38	47	50					-9			41	80	71	2	NBR			
2	SBL	83	103	109								109	174	174	2	SBL			
2	SBT	1121	1390	1473	60		60		6	-6		1533	2357	2417	2	SBT			
2	SBR	5	6	6								6	10	10	2	SBR			
3	EBL	9	11	12		48	25	73			5	90	19	97	3	EBL			
3	EBT	0	0	0								0	0	0	3	EBT			
3	EBR	17	21	22		45	9	54			9	85	35	98	3	EBR			
3	NBL	20	25	27	41		25	66		9		102	43	118	3	NBL			
3	NBT	1040	1290	1367		17	-25	66				1359	2187	2179	3	NBT			
3	NBR	0	0	0								0	0	0	3	NBR			
3	SBL	0	0	0								0	0	0	3	SBL			
3	SBT	1159	1437	1523	24		-10	14		-9		1528	2437	2442	3	SBT			
3	SBR	31	38	40	36		10	46		6		92	64	116	3	SBR			
4	EBL	53	66	70		17	17					87	112	129	4	EBL			
4	EBT	11	14	15								15	24	24	4	EBT			
4	EBR	39	48	51		22	22					73	82	104	4	EBR			
4	WBL	312	387	410								410	656	656	4	WBL			
4	WBT	6	7	7								7	11	11	4	WBT			
4	WBR	73	91	96								96	154	154	4	WBR			
4	NBL	24	30	32	42		42					74	51	93	4	NBL			
4	NBT	613	760	806	41		41					847	1290	1331	4	NBT			
4	NBR	209	259	275								275	440	440	4	NBR			
4	SBL	108	134	142								142	227	227	4	SBL			
4	SBT	692	858	909		67	67					976	1454	1521	4	SBT			
4	SBR	64	79	84	6		6					90	134	140	4	SBR			
5	EBL	57	71	75								75	120	120	5	EBL			
5	EBT	0	0	0								0	0	0	5	EBT			
5	EBR	53	66	70								70	112	112	5	EBR			
5	NBL	76	94	100								100	160	160	5	NBL			
5	NBT	910	1128	1196	83		83					1279	1914	1997	5	NBT			
5	NBR	0	0	0								0	0	0	5	NBR			
5	SBL	0	0	0								0	0	0	5	SBL			
5	SBT	936	1161	1231		89	89					1320	1970	2059	5	SBT			
5	SBR	47	58	61								61	98	98	5	SBR			
6	EBL	203	252	267	26		26					293	427	453	6	EBL			
6	EBT	428	531	563								563	901	901	6	EBT			
6	EBR	148	184	195								195	312	312	6	EBR			
6	WBL	230	285	302								302	483	483	6	WBL			
6	WBT	337	418	443								443	709	709	6	WBT			
6	WBR	263	326	346	26		26					372	554	580	6	WBR			
6	NBL	164	203	215								215	344	344	6	NBL			
6	NBT	531	658	697	31		31					728	1115	1146	6	NBT			
6	NBR	212	263	279								279	446	446	6	NBR			
6	SBL	247	306	324		28	28					352	518	546	6	SBL			
6	SBT	604	749	794		33	33					827	1270	1303	6	SBT			
6	SBR	139	172	182		28	28					210	291	319	6	SBR			
7	EBL	0	0	0								0	0	0	7	EBL			
7	EBT	12	15	16							14	30	26	40	7	EBT			
7	EBR	3	4	4								4	6	6	7	EBR			
7	WBL	5	6	6	77		35	112				118	10	122	7	WBL			
7	WBT	46	57	60						15		75	96	111	7	WBT			
7	WBR	0	0	0								0	0	0	7	WBR			
7	NBL	3	4	4								4	6	6	7	NBL			
7	NBT	0	0	0								0	0	0	7	NBT			
7	NBR	1	1	1		93	34	127				128	2	129	7	NBR			
7	SBL	13	16	17								17	27	27	7	SBL			
7	SBT	0	0	0								0	0	0	7	SBT			
7	SBR	0	0	0								0	0	0	7	SBR			
8	EBT	14	17	18								18	29	29	8	EBT			
8	EBR	0	0	0								0	0	0	8	EBR			
8	WBL	0	0	0						15		15	0	15	8	WBL			
8	WBT	48	60	64								64	102	102	8	WBT			
8	NBL	0	0	0								0	0	0	8	NBL			
8	NBR	0	0	0								14	0	14	8	NBR			
9	EBL	0	0	0								0	0	0	9	EBL			
9	EBR	0	0	0		22	9	31				31	0	31	9	EBR			
9	NBL	0	0	0								0	0	0	9	NBL			
9	NBT	613	613	806	41	17	58					864	1290	1348	9	NBT			
9	SBT	1159	1159	1523	6	45	-9	42				1565	2437	2479	9	SBT			
9	SBR	0	0	18		8	26					26	0	26	9	SBR			
10	WBR	0	0	48			48					48	0	48	10	WBR			
10	SBL	0	0	39			39					39	0	39	10	SBL			

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Linear Growth Rate
3.00%