MODELLING THE ODR; Rail for Herefordshire LDF Consultation, Appendix 1; Feb 2010

CO2 outputs per car can be found from a number of websites: for example http://www.vcacarfueldata.org.uk/

EC legislation requires average new cars to produce not more than 120g CO2/km by 2012. Currently (2008) average new cars are 160g/km

Road transport is responsible for 20% of all CO2 output, and car transport 12%.

Item	**B4224 Hampton Park Road**	**A49 Ross Road**	**Holme Lacy road**	**Rotherwas Access Road going S**	**Rotherwas Access Road going N**	**A4103 Lugg Bridge**	**A438 Whitecross**	**A49 north**	**A465 Belmont**	**A465 Aylestone Hill**	**A438 Ledbury**	**Totals**
Traffic Flows 2002; No of vehicles per day	5531	9582	9827	810	805	12902	14682	9519	18185	13524	11863	107230
Distance through town from city boundary to city bdry; km	6	4.5	5	3.6	9.8	1	6	4.5	6	6	5.7	
kgCO2 @ urban 136g/km through route	4513	5864	6682	397	1073	1755	11981	5826	14839	11036	9196	
Distance from city bdry to centre town	3.2	2.3	1.75				3	2.3	3.3	2.5	3.2	
CO2 @ urban 136g/km to centre of town	2407	2997	2339	0	0	0	5990	2978	8161	4598	5163	
Same route using western ODR through town; km	6	9	6.35			13.5	3	9	6	10.8	5.7	
kgCO2 @ freeway 109g/km through route using ODR		9400	6802	0	0	18985	4801	9338	11893	15920	7370	
Same route using western ODR to centre of town; km	3	9				16.5		5.5	6	7	3.2	
CO2 @ freeway 109g/km to centre of town using ODR		9139	0	0	0	23204	0	5707	11893	10319	4138	
kgCO2 difference ODR and 'Do Nothing', through route		3536	119			17231	-7179	3513	-2946	4885	-1826	17332
kgCO2 difference ODR and 'Do Nothing', to centre of town		6142	-2339	0	0	23204	-5990	2729	3732	5721	-1025	32173
Increase in tonnes CO2/**day** following building ODR; at 136g/km for Do Nothing and 109g/km build ODR												50
Increase in tonnes CO2/**year** following building ODR; at 136g/km for Do Nothing and 109g/km building ODR												18069
Increase in tonnes CO2/year from cars per household as a percentage of household car transport												6
Increase in tonnes CO2/year from cars per household as a percentage of household car transport												6