Created by Dr. Joseph S	Schwieterman						
	or Metropolitan Development						
DePaul University	or wetropolitan bevelopment						
Del aul Offiversity							
Inputs and Assump	ntions						
iiputs and Assump	Juona						
School Buses in service		480.000		Assumption			
Student-trips daily per bu		54		Assumption			
Bus boardings/year per child to school		400		Assumption	(includes limited s	ummer operations)	
		300		Assumption	(IIICIUUES IIIIIIEU S	ummer operations)	
Number of days buses operator for extracurricular events  Number of kids daily, extracurricular trips (roundtrips)		5,000,000					
Number of kids using school buses daily		25,920,000		Calculation (D8*D9)			
Total school-kid boarding		10,368,000,000		Calculation (d10*D11)			
Estimated extra-curricula		3,000,000,000		Calculation (a10 D11)			
Total estimated trips	ai tripo	13,368,000,000					
otal estimated trips		13,300,000,000					
Average student miles p	er hus mile driven	15		Assumption	(includes adjustme	ent for empty miles to	cervice/storage)
School bus mileage/gallo		7		Assumption	(moluucs aujustifie	and for empty miles to	oci vice/siti aye)
Auto mileage/gallon	JII	25		Assumption			
	al/int fuel	22		Assumption			
Carbon per gallon - diesel/jet fuel		19		Assumption			
Carbon per gallon - gasoline		5		Assumption			
Average miles/trip on school bus (each way)		5					
Average miles/trip in cars (each way) Student transported per car trip		2		Assumption Assumption			
Student transported per	cai ilip	2		Assumption	(miles wasted due	to mileage without stu	idente in
Share of auto miles "deadhead" (no kids; e.g.,return mileage)		0		Assumption		t return from drop-off)	idents in
	(,g.,,				устоп от рамен	,	
Fuel Reduction/Car	rbon Reduction Calculations						
		Inputs and Assumptions	in Italics				
	Passenger miles/gallon	Share of Trips	Trips	Psg Miles	Gallons	Carbon Emissions	
Travel that would occur							
Drive	23	1	11,362,800,000	56,814,000,000	2,525,066,667	48,986,293,333	
Public Transit	40		,,				
Walk/bike/stay home	None		,,			, , ,	
Total	7.00.10	1					
		,	. 5,555,550,000	Average mpg	26		
Travel occurring on scho	pol buses						
School bus total	98	1	13,368,000,000	66,840,000,000	685,538,462	15,081,846,154	
		,	. 1,150,000,000	20,0.0,000,000	223,000,102	, , ,	
Carbon emission savin	nas - Ibs.					35,742,547,179	
Carbon emission savin						17,871,274	
						,,=	

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