

TRANSIT SERVICE

Commuter Service 2018

Calculating Annual Reduction in Vehicle Trips

[(daily ridership) * (359 days per year)]- [(daily bus trips) * (359 days per year)]

90X

Daily ridership	387	enter data
x	359	leave this number
=	138,933	this cell will automatically fill

Daily Bus Trips	48
X	359
equals	17,232

Vehicle Trips Reduced Annually 121701

Calculating Annual Reduction in Vehicle Miles Traveled (VMT)

Vehicle Trips Reduced Annually *(average one way rider trip length in miles) = vehicle miles traveled reduced annually

Vehicle Trips Reduced Annually			121,701	enter data from last cell in above calculation
times				
Average One Way Rider Trip Length in Miles			36	enter data
equals				
Vehicle Miles Traveled Reduced Annual			4,381,236	this cell will automatically fill

TRANSIT SERVICE

Fixed Route 2018

Calculating Annual Reduction in Vehicle Trips

$[(\text{daily ridership}) * (359 \text{ days per year})] - [(\text{daily bus trips}) * (359 \text{ days per year})]$

Daily ridership	2222	enter data
x	359	leave this number
=	797,698	this cell will automatically fill

Daily Bus Trips	312
X	359
equals	112,008

Vehicle Trips Reduced Annually 685,690

Calculating Annual Reduction in Vehicle Miles Traveled (VMT)

Vehicle Trips Reduced Annually *(average one way rider trip length in miles) = vehicle miles traveled reduced annually

Vehicle Trips Reduced Annually			685,690	enter data from last cell in above calculation
times				
Average One Way Rider Trip Length in Miles			5	enter data
equals				
Vehicle Miles Traveled Reduced Annual			3,428,450	this cell will automatically fill

TRANSIT SERVICE

Vanpool 2018

Calculating Annual Reduction in Vehicle Trips

$[(\text{daily ridership}) * (359 \text{ days per year})] - [(\text{daily bus trips}) * (359 \text{ days per year})]$

Daily ridership		425	enter data
	x	260	leave this number
	=	110,500	this cell will automatically fill

Daily Bus Trips	Van Trips	96
	X	260
	equals	24,960

Vehicle Trips Reduced Annually 85,540

Calculating Annual Reduction in Vehicle Miles Traveled (VMT)

Vehicle Trips Reduced Annually * (average one way rider trip length in miles) = vehicle miles traveled reduced annually

Vehicle Trips Reduced Annually			85,540	enter data from last cell in above calculation
times				
Average One Way Rider Trip Length in Miles			40	enter data
equals				
Vehicle Miles Traveled Reduced Annual			3,421,600	this cell will automatically fill

Data from Skagit Transit's 2018 NTD report

TRANSIT SERVICE

Commuter Service

2040

Calculating Annual Reduction in Vehicle Trips

$[(\text{daily ridership}) * (359 \text{ days per year})] - [(\text{daily bus trips}) * (359 \text{ days per year})]$

90X 2006

Daily ridership	479.88
x	359
=	172,277

enter data

leave this number

this cell will automatically fill

Daily Bus Trips	48
X	359
equals	17,232

Vehicle Trips Reduced Annually

155044.92

Calculating Annual Reduction in Vehicle Miles Traveled (VMT)

Vehicle Trips Reduced Annually * (average one way rider trip length in miles) = vehicle miles traveled reduced annually

Vehicle Trips Reduced Annually				155,045
times				
Average One Way Rider Trip Length in Miles				36
equals				
Vehicle Miles Traveled Reduced Annual				5,581,617

enter data from last cell in above calculation

enter data

this cell will automatically fill

Skagit County population projection data: Mount Vernon area is expected to increase 34% and overall county population is expected to increase by 20%. King and Snohomish County job growth projection data: King County is expected to increase jobs 57% by 2040, surrounding counties projects (Snohomish, Kitsap, Pierce) project an average of 20% job growth. For this exercise we will assume the ridership on the commuter buses will keep track with the population projections for all of Skagit County. The daily ridership data is increased by 24%.

TRANSIT SERVICE

Fixed Route 2040

Calculating Annual Reduction in Vehicle Trips

$[(\text{daily ridership}) * (359 \text{ days per year})] - [(\text{daily bus trips}) * (359 \text{ days per year})]$

Daily ridership	2999.7	enter data
x	359	leave this number
=	1,076,892	this cell will automatically fill

Daily Bus Trips	312
X	359
equals	112,008

Vehicle Trips Reduced Annually **964,884**

Calculating Annual Reduction in Vehicle Miles Traveled (VMT)

Vehicle Trips Reduced Annually * (average one way rider trip length in miles) = vehicle miles traveled reduced annually

Vehicle Trips Reduced Annually				964,884	enter data from last cell in above calculation
times					
Average One Way Rider Trip Length in Miles				5	enter data
equals					
Vehicle Miles Traveled Reduced Annual				4,824,422	this cell will automatically fill

Skagit County population projection data: Mount Vernon area is expected to increase 35% and overall county population is expected to increase

24%.

For this exercise we will assume ridership on the fixed route service will keep track with the population projections for Mount Vernon as all routes eventually connect to the hub at Skagit Station, and the county seat is in Mount Vernon.

TRANSIT SERVICE

Vanpool 2040

Calculating Annual Reduction in Vehicle Trips

$[(\text{daily ridership}) * (359 \text{ days per year})] - [(\text{daily bus trips}) * (359 \text{ days per year})]$

Daily ridership	527	enter data
x	260	leave this number
=	137,020	this cell will automatically fill

Daily Bus Trips	96
X	260
equals	24,960

Vehicle Trips Reduced Annually 112,060

Calculating Annual Reduction in Vehicle Miles Traveled (VMT)

Vehicle Trips Reduced Annually * (average one way rider trip length in miles) = vehicle miles traveled reduced annually

Vehicle Trips Reduced Annually				112,060	enter data from last cell in above calculation
times					
Average One Way Rider Trip Length in Miles				40	enter data
equals					
Vehicle Miles Traveled Reduced Annual				4,482,400	this cell will automatically fill

Skagit County population projection data: Mount Vernon area is expected to increase 34% and overall county population is expected to increase by 20%. King and Snohomish County job growth projection data: King County is expected to increase jobs 57% by 2040, surrounding counties projects (Snohomish, Kitsap, Pierce) project an average of 20% job growth. For this exercise we will assume the ridership on the commuter buses will keep track with the population projections for all of Skagit County. The daily ridership data is increased by 24%.