

Person Mile Calculator

Land Uses	ITE Land Use Code	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(13)		
		Standard of Measure (1)	BKR Daily Prod + Attr	Basic Rate Daily Trips/Unit (ITE 9)	Basic Rate PM Peak Trips/Unit (ITE 9)	ITE Daily to PM Factor	BKR PM Prod + Attr.	New Trips %	New Person Trip Rate	Average Trip Length from 2010 Redmond Travel Diary (miles)	Normalize Trip Length to Within-City Average	Calculated within-City Average (miles)	Activity Center Person-Mile Rates		
													Downtown	Overlake	Rest of City
											0.33		0.90	0.93	1.10
<b>Residential</b>															
Single Family	210	dwelling	13.800	9.52	1.00	0.105	1.45	100%	1.45	4.67	0.33	1.5	1.98	2.05	2.42
Multiple Family	220	dwelling	10.920	6.65	0.62	0.093	1.02	100%	1.02	4.67	0.33	1.5	1.39	1.44	1.70
Residential Suites		dwelling	6.660	3.18	0.30	0.093	0.62	100%	0.62	4.67	0.33	1.5	0.85	0.88	1.04
Retirement Community	251	dwelling	6.340	3.68	0.27	0.073	0.47	100%	0.47	4.67	0.33	1.5	0.64	0.66	0.78
Nursing Home	620	bed	4.721	2.74	0.22	0.080	0.38	100%	0.38	4.67	0.33	1.5	0.52	0.54	0.63
Congregate Care/Asst Living	253	dwelling	3.480	2.02	0.17	0.084	0.29	100%	0.29	4.67	0.33	1.5	0.40	0.41	0.49
Hotel/Motel	310	room	10.920	8.17	0.60	0.073	0.99	100%	0.99	6.47	0.33	2.1	1.86	1.93	2.28
<b>Commercial - Services</b>															
Bank/Savings & Loan	912	sq ft/GFA	180.39	148.15	24.30	0.164	29.59	50%	14.79	5.40	0.33	1.8	23.38	24.18	28.61
Day Care	565	sq ft/GFA	90.18	74.06	12.34	0.167	15.03	75%	11.27	5.40	0.33	1.8	17.81	18.42	21.80
Library	590	sq ft/GFA	68.48	56.24	7.30	0.130	8.89	75%	6.67	5.40	0.33	1.8	10.53	10.90	12.89
Post Office	732	sq ft/GFA	131.73	108.19	11.22	0.104	13.66	75%	10.25	5.40	0.33	1.8	16.19	16.75	19.82
Service Station	944	fuel position	205.24	168.56	13.87	0.082	16.89	40%	6.76	5.40	0.33	1.8	10.67	11.04	13.07
Service Station/Minimart	945	fuel position	198.20	162.78	13.51	0.083	16.45	30%	4.93	5.40	0.33	1.8	7.80	8.07	9.54
Movie Theater	444,445	seat	2.50	2	0.07	0.034	0.09	85%	0.07	5.40	0.33	1.8	0.11	0.12	0.14
Carwash	947	stall	131.50	108	5.54	0.051	6.75	65%	4.38	5.40	0.33	1.8	6.93	7.17	8.48
Health Club/Racquet Club	492,493	sq ft/GFA	46.23	38	4.75	0.125	5.78	75%	4.33	5.40	0.33	1.8	6.85	7.08	8.38
<b>Commercial - Institutional</b>															
Elementary School	520	student	1,115	1.29	0.15	0.116	0.13	80%	0.10	5.40	0.33	1.8	0.16	0.17	0.20
High School	530	student	1,478	1.71	0.13	0.076	0.11	90%	0.10	5.40	0.33	1.8	0.16	0.17	0.20
Church	560	sq ft/GFA	11.09	9.11	0.55	0.060	0.67	100%	0.67	5.40	0.33	1.8	1.06	1.09	1.30
Hospital	610	sq ft/GFA	16.10	13.22	0.93	0.070	1.13	85%	0.96	5.40	0.33	1.8	1.52	1.57	1.86
<b>Commercial - Restaurant</b>															
Restaurant	931	sq ft/GFA	109.523	89.95	7.49	0.083	9.12	80%	7.30	5.40	0.33	1.8	11.53	11.93	14.11
Fast Food Restaurant	934	sq ft/GFA	604.076	496.12	32.65	0.066	39.75	50%	19.88	5.40	0.33	1.8	31.41	32.49	38.45
<b>Self-added category:</b>															
High Turn over restaurant	932	sq ft/GFA	154.818	127.16	9.85	0.077	11.99	80%	9.59	5.40	0.33	1.8	15.16	15.68	18.56
<b>Fastfood without drivethrough</b>	933	sq ft/GFA	483.816	397.351853	26.15	0.066	31.84	50%	15.92	5.40	0.33	1.8	25.15	26.02	30.79
Pharmacy with Drive Thru	881	sq ft/GFA	117.998	96.91	9.91	0.102	12.07	51%	6.15	5.40	0.33	1.8	9.72	10.06	11.90
<b>Commercial - Retail Shopping Center</b>															
up to 99,999	820	sq ft/GLA	82.979	68.15	5.99	0.088	7.29	55%	4.01	5.40	0.33	1.8	6.34	6.56	7.76
100,000-199,999	820	sq ft/GLA	71.748	58.93	5.24	0.089	6.38	60%	3.83	5.40	0.33	1.8	6.05	6.26	7.41
200,000-299,999	820	sq ft/GLA	60.002	49.28	4.43	0.090	5.39	65%	3.50	5.40	0.33	1.8	5.54	5.73	6.78
300,000 and over	820	sq ft/GLA	53.336	43.80	3.96	0.090	4.82	70%	3.38	5.40	0.33	1.8	5.34	5.52	6.53
Supermarket	850	sq ft/GFA	124.488	102.24	9.48	0.093	11.54	70%	8.66	5.40	0.33	1.8	13.68	14.15	16.74
Convenience Market	851	sq ft/GFA	898.577	737.99	52.41	0.071	63.81	45%	28.72	5.40	0.33	1.8	45.37	46.94	55.54
Free Standing Discount Store	814, 815, 801, 863, 864	sq ft/GFA	65.744	54	3.35	0.062	4.08	70%	2.85	5.40	0.33	1.8	4.51	4.66	5.52
Miscellaneous Retail	820	sq ft/GFA	51.992	42.7	3.71	0.087	4.52	75%	3.39	5.40	0.33	1.8	5.35	5.54	6.55
Furniture Store	890	sq ft/GFA	6.161	5.06	0.45	0.089	0.55	60%	0.33	5.40	0.33	1.8	0.52	0.54	0.64
Car Sales - New/Used	841	sq ft/GFA	39.329	32.3	2.62	0.081	3.19	80%	2.55	5.40	0.33	1.8	4.03	4.17	4.94
<b>Commercial - Administrative Office</b>															
up to 99,999	710,715, 750	sq ft/GFA	15.486	13.16	1.91	0.145	2.25	100%	2.25	10.00	0.33	3.3	6.58	6.81	8.06
100,000-199,999	710,715, 750	sq ft/GFA	14.016	11.91	1.64	0.138	1.93	100%	1.93	10.00	0.33	3.3	5.66	5.85	6.92
200,000-299,999	710,715, 750	sq ft/GFA	12.399	10.54	1.43	0.136	1.69	100%	1.69	10.00	0.33	3.3	4.94	5.11	6.04
300,000 and over	710,715, 750	sq ft/GFA	11.437	9.72	1.34	0.138	1.58	100%	1.58	10.00	0.33	3.3	4.63	4.79	5.67
Medical Office/Clinic	720	sq ft/GFA	42.516	36.13	3.57	0.099	4.20	75%	3.15	7.33	0.33	2.4	6.76	6.99	8.28
<b>Industrial</b>															
Light Industry/Manufacturing	110	sq ft/GFA	7.588	6.97	0.97	0.139	1.06	100%	1.06	10.00	0.33	3.3	3.09	3.20	3.78
Industrial Park	130	sq ft/GFA	7.436	6.83	0.85	0.124	0.93	100%	0.93	10.00	0.33	3.3	2.71	2.80	3.31
Warehousing/Storage	150	sq ft/GFA	3.876	3.56	0.32	0.090	0.35	100%	0.35	10.00	0.33	3.3	1.02	1.05	1.25
Mini Warehouse	151	sq ft/GFA	1.796	1.65	0.19	0.115	0.21	100%	0.21	10.00	0.33	3.3	0.61	0.63	0.74

(14)			
From 2010 Redmond Travel Survey			
SOV	HOV	Transit	Walk / Bike
20%	0%	0%	80%
Custom mode splits? (Y/N)			
N		VALID	
City Average	Downtown	Overlake	Rest of City
5.41	4.84	5.01	5.93