

ITE Trip Generation Manual, 11th Edition
PM Peak Hour Net New Trips by ITE Land Use Category

Land Use Category - ITE 11th Edition	ITE Land Use Code	ITE Average PM Peak Hour Trip Rate ¹	Unit	Pass-By Trip Reduction Factor ³	Net New Trip Rate	Trip Length Adjustment Factor	Net New Trips
		a		b	c=a*b	d	e= c*d
RESIDENTIAL							
Single-Family Detached Housing	210	0.94	Dwelling Unit	1.00	0.94	1.00	0.94
Single-Family Attached Housing	215	0.57	Dwelling Unit	1.00	0.57	1.00	0.57
Multifamily Housing (Low-Rise)	220	0.51	Dwelling Unit	1.00	0.51	1.00	0.51
Multifamily Housing (Mid-Rise)	221	0.39	Dwelling Unit	1.00	0.39	1.00	0.39
Multifamily Housing (High-Rise)	222	0.32	Dwelling Unit	1.00	0.32	1.00	0.32
Affordable Housing	223	0.46	Dwelling Unit	1.00	0.46	1.00	0.46
Off-Campus Student Apartment (Low-Rise)	225	0.24	Bedroom	1.00	0.24	1.00	0.24
Off-Campus Student Apartment (Mid-Rise)	226	0.21	Bedroom	1.00	0.21	1.00	0.21
Off-Campus Student Apartment (High-Rise) ²	227	0.04	Bedroom	1.00	0.04	1.00	0.04
Low-Rise Residential with 1st-Floor Commercial ²	230	0.36	Dwelling Unit	1.00	0.36	1.00	0.36
Mid-Rise Residential with 1st-Floor Commercial ²	231	0.75	Dwelling Unit	1.00	0.75	1.00	0.75
High-Rise Residential with 1st-Floor Commercial ²	232	0.21	Dwelling Unit	1.00	0.21	1.00	0.21
Mobile Home Park	240	0.58	Dwelling Unit	1.00	0.58	1.00	0.58
Senior Adult Housing-Detached	251	0.30	Dwelling Unit	1.00	0.30	1.00	0.30
Senior Adult Housing-Attached	252	0.25	Dwelling Unit	1.00	0.25	1.00	0.25
Congregate Care Facility	253	0.18	Dwelling Unit	1.00	0.18	1.00	0.18
Assisted Living	254	0.48	1,000 sf GFA	1.00	0.48	1.00	0.48
Continuing Care Retirement Community	255	0.19	Unit	1.00	0.19	1.00	0.19
Recreational Homes	260	0.29	Dwelling Unit	1.00	0.29	1.00	0.29
Timeshare	265	0.63	Dwelling Unit	1.00	0.63	1.00	0.63
Residential Planned Unit Development	270	0.69	Dwelling Unit	1.00	0.69	1.00	0.69
LODGING & RECREATIONAL							
Hotel	310	0.59	Room	1.00	0.59	1.00	0.59
All Suites Hotel	311	0.36	Room	1.00	0.36	1.00	0.36
Business Hotel	312	0.31	Room	1.00	0.31	1.00	
Motel	320	0.36	Room	1.00	0.36	1.00	0.36
Resort Hotel	330	0.41	Room	1.00	0.41	1.00	0.41
City Park ²	411	7.41	Employee	1.00	7.41	1.00	7.41
Campground/Recreational Vehicle Park	416	0.27	Occupied Campsite	1.00	0.27	1.00	0.27
Marina ²	420	0.21	Berths	1.00	0.21	1.00	
Golf Course	430	2.91	Hole	1.00	2.91	1.00	2.91
Mini Golf	431	0.33	Hole	1.00	0.33	1.00	0.33
Golf Driving Range	432	1.25	Tee/Driving Position	1.00	1.25	1.00	1.25
Batting Cages	433	2.22	Cages	1.00	2.22	1.00	2.22
Rock Climbing Gym ²	434	1.64	1,000 sf GFA	1.00	1.64	1.00	1.64
Multipurpose Recreational Facility	435	3.58	1,000 sf GFA	1.00	3.58	1.00	3.58
Trampoline Park	436	1.50	1,000 sf GFA	1.00	1.50	1.00	1.50
Bowling Alley	437	1.30	Bowling Lane	1.00	1.30	1.00	1.30
Adult Cabaret ²	440	2.93	1,000 sf GFA	1.00	2.93	1.00	2.93
Multiplex Movie Theater ²	445	6.17	1,000 sf GFA	1.00	6.17	1.00	6.17
Horse Racetrack ²	452	0.06	Seats	1.00	0.06	1.00	0.06

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Saturday, Peak Hour of Generator	Automobile Racetrack ²	453	Attendees	1.00	0.28	1.00	0.28
	Dog Racetrack ²	454	Attendees	1.00	0.15	1.00	0.15
	Professional Baseball Stadium ²	462	Attendees	1.00	0.15	1.00	0.15
	Ice Skating Rink	465	1,000 sf GFA	1.00	1.33	1.00	1.33
PM Peak Hour of Generator Only	Snow Ski Area	466	Lifts	1.00	33.77	1.00	33.77
PM Peak Hour of Generator Only	Bingo Hall ²	470	Seats	1.00	0.48	1.00	0.48
	Casino	473	1,000 sf GFA	1.00	22.61	1.00	22.61
	Amusement Park ²	480	Employee	1.00	0.50	1.00	0.50
	Water Slide Park ²	482	Parking Spaces	1.00	0.28	1.00	0.28
	Soccer Complex	488	Fields	1.00	16.43	1.00	16.43
	Tennis Courts ²	490	Court	1.00	4.21	1.00	4.21
	Racket/Tennis Club ²	491	Court	1.00	3.82	1.00	3.82
	Health/Fitness Club	492	1,000 sf GFA	1.00	3.45	1.00	3.45
	Athletic Club	493	1,000 sf GFA	1.00	6.29	1.00	6.29
	Recreational Community Center	495	1,000 sf GFA	1.00	2.50	1.00	2.50

INSTITUTIONAL & MEDICAL

	Military Base	501	Employees	1.00	0.39	1.00	0.39
	Elementary School	520	Student	1.00	0.16	1.00	0.16
	Middle School/Junior High School	522	Student	1.00	0.15	1.00	0.15
	High School	525	Student	1.00	0.14	1.00	0.14
Weekday	School District Office	528	1,000 sf GFA	1.00	2.04	1.00	2.04
	Private School (K-8)	530	Student	1.00	0.26	1.00	0.26
	Private School (K-12)	532	Student	1.00	0.17	1.00	0.17
	Private High School	534	Student	1.00	0.19	1.00	0.19
	Charter Elementary School	536	Student	1.00	0.16	1.00	0.16
PM Peak Hour of Generator Only	Charter School (K-12)	538	Student	1.00	0.73	1.00	0.73
	Junior/Community College	540	Student	1.00	0.11	1.00	0.11
	University/College	550	Student	1.00	0.15	1.00	0.15
	Church	560	1,000 sf GFA	1.00	0.49	1.00	0.49
Fri, PM Peak Hour	Synagogue ²	561	1,000 sf GFA	1.00	2.92	1.00	2.92
Fri, PM Peak Hour	Mosque ²	562	1,000 sf GFA	1.00	4.22	1.00	4.22
	Day Care Center	565	1,000 sf GFA	0.56	6.23	1.00	6.23
	Cemetery	566	Acres	1.00	0.46	1.00	0.46
	Adult Detention Facility ²	571	1,000 sf GFA	1.00	0.48	1.00	0.48
	Fire and Rescue Station	575	1,000 sf GFA	1.00	0.48	1.00	0.48
	Museum ²	580	1,000 sf GFA	1.00	0.18	1.00	0.18
	Library	590	1,000 sf GFA	1.00	8.16	1.00	8.16
	Hospital	610	1,000 sf GFA	1.00	0.86	1.00	0.86
	Nursing Home	620	1,000 sf GFA	1.00	0.59	1.00	0.59
	Clinic	630	1,000 sf GFA	1.00	3.69	1.00	3.69
	Vet Clinic	640	1,000 sf GFA	1.00	3.53	1.00	3.53
	Free Standing Emergency Room	650	1,000 sf GFA	1.00	1.52	1.00	1.52

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RETAIL							
Tractor Supply Store	810	1.40	1,000 sf GFA	1.00	1.40	1.00	1.40
Construction Equipment Rental	811	0.99	1,000 sf GFA	1.00	0.99	1.00	0.99
Building Materials and Lumber Store	812	2.25	1,000 sf GFA	1.00	2.25	1.00	2.25
Free-Standing Discount Superstore	813	4.33	1,000 sf GFA	0.71	3.07	1.00	3.07
Variety Store	814	6.70	1,000 sf GFA	0.66	4.42	1.00	4.42
Free-Standing Discount Store	815	4.86	1,000 sf GFA	0.80	3.89	1.00	3.89
Hardware/Paint Store	816	2.98	1,000 sf GFA	0.74	2.21	1.00	2.21
Nursery (Garden Center)	817	6.94	1,000 sf GFA	1.00	6.94	1.00	6.94
Nursery (Wholesale)	818	5.24	1,000 sf GFA	1.00	5.24	1.00	5.24
Shopping Center (150K-300K)	820	3.40	1,000 sf GLA	0.71	2.41	1.00	2.41
Shopping Center (300K-900K)	820	3.40	1,000 sf GFA	0.81	2.75	1.00	2.75
Shopping Plaza (40-150K)	821	9.03	1,000 sf GLA	0.60	5.42	1.00	5.42
Strip Retail Plaza (<40K)	822	6.59	1,000 sf GLA	1.00	6.59	1.00	6.59
Factory Outlet Center	823	2.29	1,000 sf GFA	1.00	2.29	1.00	2.29
Automobile Sales (New)	840	2.42	1,000 sf GFA	1.00	2.42	1.00	2.42
Automobile Sales (Used)	841	3.75	1,000 sf GFA	1.00	3.75	1.00	3.75
Recreational Vehicle Sales	842	0.77	1,000 sf GFA	1.00	0.77	1.00	0.77
Automobile Parts Sales	843	4.90	1,000 sf GFA	0.57	2.79	1.00	2.79
Tire Store	848	3.75	1,000 sf GFA	0.75	2.81	1.00	2.81
Tire Superstore	849	2.11	1,000 sf GFA	1.00	2.11	1.00	2.11
Supermarket	850	8.95	1,000 sf GFA	0.76	6.80	1.00	6.80
Convenience Store	851	49.11	1,000 sf GFA	1.00	49.11	1.00	49.11
Discount Club	857	4.19	1,000 sf GFA	0.66	2.77	1.00	2.77
Farmers Market ²	858	179.84	Acres	1.00	179.84	1.00	179.84
Wholesale Market ²	860	1.76	1,000 sf GFA	1.00	1.76	1.00	1.76
Sporting Goods Superstore	861	2.14	1,000 sf GFA	1.00	2.14	1.00	2.14
Home Improvement Superstore	862	0.19	1,000 sf GFA	0.58	0.11	1.00	0.11
Electronic Superstore	863	4.25	1,000 sf GFA	0.60	2.55	1.00	2.55
Toy/Children's Superstore ²	864	5.00	1,000 sf GFA	1.00	5.00	1.00	5.00
Baby Superstore ²	865	1.82	1,000 sf GFA	1.00	1.82	1.00	1.82
Pet Supply Superstore	866	3.55	1,000 sf GFA	1.00	3.55	1.00	3.55
Office Supply Superstore	867	2.77	1,000 sf GFA	1.00	2.77	1.00	2.77
Book Superstore ²	868	15.83	1,000 sf GFA	1.00	15.83	1.00	15.83
Discount Home Furnishings Superstore	869	1.57	1,000 sf GFA	1.00	1.57	1.00	1.57
Bed and Linen Superstore ²	872	2.22	1,000 sf GFA	1.00	2.22	1.00	2.22
Department Store	875	1.95	1,000 sf GFA	1.00	1.95	1.00	1.95
Apparel Store	876	4.12	1,000 sf GFA	1.00	4.12	1.00	4.12
Arts and Crafts Store ²	879	6.21	1,000 sf GFA	1.00	6.21	1.00	6.21
Pharmacy/Drug Store without Drive-Through	880	8.51	1,000 sf GFA	0.47	4.00	1.00	4.00
Pharmacy/Drug Store with Drive-Through	881	10.25	1,000 sf GFA	0.51	5.23	1.00	5.23
Marijuana Dispensary	882	18.92	1,000 sf GFA	1.00	18.92	1.00	18.92
Furniture Store	890	0.52	1,000 sf GFA	0.47	0.24	1.00	0.24
Medical Equipment Store ²	897	1.24	1,000 sf GFA	1.00	1.24	1.00	1.24

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Liquor Store	899	16.62	1,000 sf GFA	1.00	16.62	1.00	16.62
Walk-in Bank	911	12.13	1,000 sf GFA	1.00	12.13	1.00	12.13
Drive-in Bank	912	21.01	1,000 sf GFA	0.71	14.92	1.00	14.92
Hair Salon ²	918	1.45	1,000 sf GFA	1.00	1.45	1.00	1.45
Copy, Print and Express Ship Store ²	920	7.42	1,000 sf GFA	1.00	7.42	1.00	7.42
Food Cart Pod	926	6.16	Food Cart	1.00	6.16	1.00	6.16
Fast Casual Restaurant	930	12.55	1,000 sf GFA	1.00	12.55	1.00	12.55
Fine Dining Restaurant	931	7.80	1,000 sf GFA	0.56	4.37	1.00	4.37
High Turnover (Sit-Down) Restaurant	932	9.05	1,000 sf GFA	0.57	5.16	1.00	5.16
Fast Food Restaurant without Drive-Through	933	33.21	1,000 sf GFA	1.00	33.21	1.00	33.21
Fast Food Restaurant with Drive-Through	934	33.03	1,000 sf GFA	0.45	14.86	1.00	14.86
Fast Food Restaurant with Drive-Through, No Indoor Seating	935	59.50	1,000 sf GFA	0.69	41.06	1.00	41.06
Coffee/Donut Shop without Drive-Through	936	32.29	1,000 sf GFA	1.00	32.29	1.00	32.29
Coffee/Donut Shop with Drive-Through	937	38.99	1,000 sf GFA	1.00	38.99	1.00	38.99
Coffee/Donut Shop with Drive-Through, No Indoor Seating	938	15.08	Drive-Through Lanes	0.02	0.30	1.00	0.30
Quick Lubrication Vehicle Shop ²	941	8.70	1,000 sf GFA	1.00	8.70	1.00	8.70
Automobile Care Center	942	3.11	1,000 sf GFA	1.00	3.11	1.00	3.11
Auto Parts / Service Center	943	2.06	1,000 sf GFA	1.00	2.06	1.00	2.06
Gasoline/Service Station	944	13.91	Fueling Position	0.43	5.98	1.00	5.98
Gasoline/Service Station w/ Convenience Market (2-4K) & 8 or fewer pumps	945	18.42	Fueling Position	0.44	8.10	1.00	8.10
Gasoline/Service Station w/ Convenience Market (4-5.5K) & 12-20 pumps	945	22.76	Fueling Position	0.25	5.69	1.00	5.69
Gasoline/Service Station w/ Convenience Market (5.5-10K) & 16 pumps	945	26.90	Fueling Position	0.21	5.65	1.00	5.65
Self-Service Car Wash	947	5.54	Wash Stall	1.00	5.54	1.00	5.54
Automated Car Wash	948	14.20	Car Wash Tunnel	1.00	14.20	1.00	14.20
Car Wash and Detail Center ²	949	13.60	Wash Stall	1.00	13.60	1.00	13.60
Truck Stop	950	15.42	Fueling Position	1.00	15.42	1.00	15.42
Wine Tasting Room	970	7.31	1,000 sf GFA	1.00	7.31	1.00	7.31
Brewery Tap Room ²	971	9.83	1,000 sf GFA	1.00	9.83	1.00	9.83
Drinking Place	975	11.36	1,000 sf GFA	1.00	11.36	1.00	11.36

OFFICE							
General Office Building	710	1.44	1,000 sf GFA	1.00	1.44	1.00	1.44
Small Office Building	712	2.16	1,000 sf GFA	1.00	2.16	1.00	2.16
Corporate Headquarters Building	714	1.30	1,000 sf GFA	1.00	1.30	1.00	1.30
Single Tenant Office Building	715	1.76	1,000 sf GFA	1.00	1.76	1.00	1.76
Medical-Dental Office Building	720	3.93	1,000 sf GFA	1.00	3.93	1.00	3.93
Government Office Building	730	1.71	1,000 sf GFA	1.00	1.71	1.00	1.71
State Motor Vehicle Department	731	5.20	1,000 sf GFA	1.00	5.20	1.00	5.20
United States Post Office	732	11.21	1,000 sf GFA	1.00	11.21	1.00	11.21
Office Park	750	1.30	1,000 sf GFA	1.00	1.30	1.00	1.30
Research and Development Center	760	0.98	1,000 sf GFA	1.00	0.98	1.00	0.98
Business Park	770	1.22	1,000 sf GFA	1.00	1.22	1.00	1.22

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INDUSTRIAL & TERMINAL							
General Light Industrial	110	0.65	1,000 sf GFA	1.00	0.65	1.00	0.65
Industrial Park	130	0.34	1,000 sf GFA	1.00	0.34	1.00	0.34
Manufacturing	140	0.74	1,000 sf GFA	1.00	0.74	1.00	0.74
Warehousing	150	0.18	1,000 sf GFA	1.00	0.18	1.00	0.18
Mini-Warehouse (per 100 storage units)	151	1.68	100 storage units	1.00	1.68	1.00	1.68
Mini-Warehouse (per 1000 sf GLA)	151	0.15	1,000 sf GFA	1.00	0.15	1.00	0.15
High-Cube Transload and Short-Term Storage Warehouse	154	0.10	1,000 sf GFA	1.00	0.10	1.00	0.10
High-Cube Fulfillment Center Warehouse	155	0.16	1,000 sf GFA	1.00	0.16	1.00	0.16
High-Cube Parcel Hub Warehouse	156	0.64	1,000 sf GFA	1.00	0.64	1.00	0.64
High-Cube Cold Storage Warehouse	157	0.12	1,000 sf GFA	1.00	0.12	1.00	0.12
Data Center	160	0.09	1,000 sf GFA	1.00	0.09	1.00	0.09
Utilities	170	2.16	1,000 sf GFA	1.00	2.16	1.00	2.16
Specialty Trade Contractor	180	1.93	1,000 sf GFA	1.00	1.93	1.00	1.93
Marijuana Cultivation and Processing Facility ²	190	0.64	1,000 sf GFA	1.00	0.64	1.00	0.64
Commercial Airport ²	21	0.00	Employees	1.00	0.00	1.00	0.00
General Aviation Airport ²	22	1.57	Employees	1.00	1.57	1.00	1.57
Intermodal Truck Terminal	30	1.87	1,000 sq GFA	1.00	1.87	1.00	1.87
Park-and-Ride Lot with Bus	90	0.49	Parking Spaces	1.00	0.49	1.00	0.49

Weekday
PM Peak Hour of Generator Only

* Abbreviations include: GFA = Gross Floor Area, sf = square feet, and GLA = Gross Leasable Area

1. P.M. Peak hour of the adjacent street system used unless not available

2. Indicates there were a limited number of studies for this land use (less than three) so data may not be reliable

3. The Pass-By Trip Reduction Factor reduces the Average Trip Rate based on weekday peak hour Pass-By trip percentages updated with the ITE Trip Generation Manual, 11th Edition